2000 EMERGENCY RESPONSE GUIDEBOOK



A GUIDEBOOK FOR FIRST RESPONDERS
DURING THE INITIAL PHASE OF A
DANGEROUS GOODS/HAZARDOUS MATERIALS INCIDENT

RESIST RUSHING IN ! APPROACH INCIDENT FROM UPWIND STAY CLEAR OF ALL SPILLS, VAPORS, FUMES AND SMOKE

HOW TO USE THIS GUIDEBOOK DURING AN INCIDENT INVOLVING DANGEROUS GOODS

ONE IDENTIFY THE MATERIAL BY FINDING ANY ONE OF THE FOLLOWING:

THE 4-DIGIT ID NUMBER ON A PLACARD OR ORANGE PANEL

THE 4-DIGIT ID NUMBER (after UN/NA) ON A SHIPPING DOCUMENT OR PACKAGE

THE NAME OF THE MATERIAL ON A SHIPPING DOCUMENT, PLACARD OR PACKAGE

IF AN **ID NUMBER** OR THE **NAME OF THE MATERIAL** CANNOT BE FOUND, SKIP TO THE NOTES BELOW.

TWO LOOK UP THE MATERIAL'S 3-DIGIT GUIDE NUMBER IN EITHER:

THE ID NUMBER INDEX..(the yellow-bordered pages of the guidebook)

THE NAME OF MATERIAL INDEX..(the blue-bordered pages of the guidebook)

If the guide number is supplemented with the letter "P", it indicates that the material may undergo violent polymerization if subjected to heat or contamination.

If the index entry is highlighted (in either yellow or blue), it is a TIH (Toxic Inhalation Hazard) material or a Dangerous Water Reactive Material (produces toxic gas upon contact with water). **LOOK FOR THE ID NUMBER AND NAME OF THE MATERIAL** IN THE TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES (the green-bordered pages). Then, if necessary, **BEGIN PROTECTIVE ACTIONS IMMEDIATELY** (see Protective Actions on page 314). If protective action is not required, use the information jointly with the 3-digit guide.

USE GUIDE 112 FOR ALL EXPLOSIVES EXCEPT FOR EXPLOSIVES 1.4 (EXPLOSIVES C) WHERE GUIDE 114 IS TO BE CONSULTED.

THREE TURN TO THE NUMBERED GUIDE (the orange-bordered pages) AND READ CAREFULLY.

NOTES

IF A NUMBERED GUIDE CANNOT BE OBTAINED BY FOLLOWING THE ABOVE STEPS, AND A PLACARD CAN BE SEEN, LOCATE THE PLACARD IN THE TABLE OF PLACARDS (pages 16-17), THEN GO TO THE 3-DIGIT GUIDE SHOWN NEXT TO THE SAMPLE PLACARD.

IF A REFERENCE TO A GUIDE CANNOT BE FOUND AND THIS INCIDENT IS BELIEVED TO INVOLVE DANGEROUS GOODS, TURN TO GUIDE 111 NOW, AND USE IT UNTIL ADDITIONAL INFORMATION BECOMES AVAILABLE. If the shipping document lists an emergency response telephone number, call that number. If the shipping document is not available, or no emergency response telephone number is listed, IMMEDIATELY CALL the appropriate emergency response agency listed on the inside back cover of this guidebook. Provide as much information as possible, such as the name of the carrier (trucking company or railroad) and vehicle number. AS A LAST RESORT, CONSULT THE TABLE OF RAIL CAR AND ROAD TRAILER IDENTIFICATION CHART (pages 18-19). IF THE CONTAINER CAN BE IDENTIFIED, REMEMBER THAT THE INFORMATION ASSOCIATED WITH THESE CONTAINERS IS FOR THE WORST CASE POSSIBLE.

ERG2000 USER'S GUIDE

The 2000 Emergency Response Guidebook (ERG2000) was developed jointly by Transport Canada (TC), the U.S. Department of Transportation (DOT) and the Secretariat of Transport and Communications of Mexico (SCT) for use by fire fighters, police, and other emergency services personnel who may be the first to arrive at the scene of a transportation incident involving dangerous goods. It is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in the incident, and protecting themselves and the general public during the initial response phase of the incident. For the purposes of this guidebook, the 'finitial response phase" is that period following arrival at the scene of an incident during which the presence and/or identification of dangerous goods is confirmed, protective actions and area securement are initiated, and assistance of qualified personnel is requested. It is not intended to provide information on the physical or chemical properties of dangerous goods.

This guidebook will assist responders in making initial decisions upon arriving at the scene of a dangerous goods incident. It should not be considered as a substitute for emergency response training, knowledge or sound judgment. ERG2000 does not address all possible circumstances that may be associated with a dangerous goods incident. It is primarily designed for use at a dangerous goods incident occurring on a highway or railroad. Be mindful that there may be limited value in its application at fixed facility locations.

ERG2000 incorporates dangerous goods lists from the most recent United Nations Recommendations as well as from other international and national regulations. Explosives are not listed individually by either proper shipping name or ID Number. They do, however, appear under the general heading "Explosives" on the first page of the ID Number index (yellow-bordered pages) and alphabetically in the Name of Material index (blue-bordered pages). Also, the letter "P" following the guide number in the yellow-bordered and blue-bordered pages identifies those materials which present a polymerization hazard under certain conditions; for example, Acrolein, inhibited, Guide 131P.

First responders at the scene of a dangerous goods incident should seek additional specific information about any material in question as soon as possible. The information received by contacting the appropriate emergency response agency, the emergency response number on the shipping document, or by consulting the information on or accompanying the shipping document, may be more specific and accurate than this guidebook in providing guidance for the materials involved.

BECOME FAMILIAR WITH THIS GUIDEBOOK BEFORE USING IT DURING AN EMERGENCY! In the U.S., according to the requirements of the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA, 29 CFR 1910.120), and regulations issued by the U.S. Environmental Protection Agency (EPA, 40 CFR Part 311), first responders must be trained regarding the use of this guidebook.

GUIDEBOOK CONTENTS

1-Yellow-bordered pages: Index list of dangerous goods in numerical order of ID number. This section quickly identifies the guide to be consulted from the ID Number of the material involved. This list displays the 4-digit ID number of the material followed by its assigned emergency response guide and the material name.

For example:	ID No.	Guide No.	Name of Material
•	1090	127	Acetone

2-Blue-bordered pages: Index list of dangerous goods in alphabetical order of material name. This section quickly identifies the guide to be consulted from the name of the material involved. This list displays the name of the material followed by its assigned emergency response guide and 4-digit ID number.

For example:	Name of Material	Guide No.	ID No.
•	Sulfuric acid	137	1830

3-Orange-bordered pages: This section is the most important section of the guidebook because it is where all safety recommendations are provided. It comprises a total of 62 individual guides, presented in a two-page format. Each guide provides safety recommendations and emergency response information to protect yourself and the public. The left hand page provides safety related information whereas the right hand page provides emergency response guidance and activities for fire situations, spill or leak incidents and first aid. Each guide is designed to cover a group of materials which possess similar chemical and toxicological characteristics.

The guide title identifies the general hazards of the dangerous goods covered.

For example: Guide 124 - Gases-Toxic and/or Corrosive-Oxidizing.

Each guide is divided into three main sections: the first section describes **potential hazards** that the material may display in terms of fire/explosion and health effects upon exposure. The highest potential is listed first. The emergency responder should consult this section first. This allows the responder to make decisions regarding the protection of the emergency response team as well as the surrounding population.

The second section outlines suggested <u>public safety</u> measures based on the situation at hand. It provides general information regarding immediate isolation of the incident site, recommended type of protective clothing and respiratory protection. Suggested evacuation distances are listed for small and large spills and for fire situations (fragmentation hazard). It also directs the reader to consult the tables listing Toxic Inhalation Hazard materials (TIH) and water-reactive materials (green-bordered pages) when the material name is highlighted in the yellow-bordered and blue-bordered pages.

The third section covers **emergency response** actions, including first aid. It outlines special precautions for incidents which involve fire, spill or chemical exposure. Several recommendations are listed under each part which will further assist in the decision making process. The information on first aid is general guidance prior to seeking medical care.

4-Green-bordered pages: This section contains a table which lists, by ID number, TIH materials, including certain chemical warfare agents, and water-reactive materials which produce toxic gases upon contact with water. The table provides two different types of recommended safe distances which are "Initial isolation distances" and "Protective action distances." The materials are highlighted for easy identification in both numeric (yellow-bordered pages) and alphabetic (blue-bordered pages) lists of the guidebook. The table provides distances for both small (approximately 200 liters or less) and large spills (more than 200 liters) for all highlighted materials. The list is further subdivided into daytime and nighttime situations. This is necessary due to varying atmospheric conditions which greatly affect the size of the hazardous area. The distances change from daytime to nighttime due to different mixing and dispersion conditions in the air. During the night, the air is generally calmer and this causes the chemical to disperse less and therefore create a toxicity zone which is greater than would usually occur during the day. During the day, the chemical is generally dispersed by a more active atmosphere. The chemical will be present in a larger area; however, the actual area where toxic levels are reached will be smaller (due to increased dispersion). It is the quantity of the chemical that poses problems not its mere presence.

The "Initial Isolation Distance" is a distance within which all persons should be considered for evacuation in all directions from the actual spill/leak source. It is a distance (radius) which defines a circle (Initial Isolation Zone) within which persons may be exposed to dangerous concentrations upwind of the source and may be exposed to life threatening concentrations downwind of the source. For example, in the case of Compressed gas, toxic, n.o.s., ID No. 1955, Inhalation Hazard Zone A, the isolation distance for small spills is 430 meters, therefore, representing an evacuation circle of 860 meters in diameter.

For the same material, the "Protective Action Distance" is 4.2 kilometers for a daytime incident and 8.4 kilometers for a nighttime incident, these distances represent a downwind distance from the spill/leak source within which Protective Actions could be implemented. Protective Actions are those steps taken to preserve the health and safety of emergency responders and the public. People in this area could be evacuated and/or sheltered in-place. For more information, consult the INTRODUCTION TO THE TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES (pages 311-312).

What is a TIH?

It is a liquid or a gas which is known to be so toxic to humans as to pose a hazard to health during transportation, or in the absence of adequate data on human toxicity, is presumed to be toxic to humans because when tested on laboratory animals it has an LC50 value of not more than 5000 ppm.

It is important to note that even though the term zone is used, the hazard zones do not represent any actual area or distance. The assignment of the zones is strictly a function of their Lethal Concentration 50 (LC50); for example, TIH Zone A is more toxic than Zone D. All distances which are listed in the green-bordered pages are calculated by the use of mathematical models for each TIH material.

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Assignment of hazard zones:

HAZARD ZONE A: LC50 of less than or equal to 200 ppm,

HAZARD ZONE B: LC50 greater than 200 ppm and less than or equal to 1000 ppm, **HAZARD ZONE C:** LC50 greater than 1000 ppm and less than or equal to 3000 ppm, **HAZARD ZONE D:** LC50 greater than 3000 ppm and less than or equal to 5000 ppm.

ISOLATION AND EVACUATION DISTANCES

Isolation or evacuation distances are shown in the guides (orange-bordered pages) and in the Table of Initial Isolation and Protective Action Distances (green-bordered pages). This may confuse users not thoroughly familiar with ERG2000.

It is important to note that some guides refer to non-TIH materials only (40 guides) and some refer to both TIH and non-TIH materials (22 guides). A guide refers to both TIH and non-TIH materials only when the following sentence appears under the title EVACUATION-SPILLS: "See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY." If this sentence does not appear in the guide, then this particular guide refers to non-TIH materials only.

If you are dealing with a TIH material (highlighted entries in the index lists), the isolation and evacuation distances are found directly in the green-bordered pages. The guides (orange-bordered pages) also remind the user to refer to the green-bordered pages for evacuation specific information involving highlighted materials.

If you are dealing with a non-TIH material but the guide refers to both TIH and non-TIH materials, an immediate isolation distance is provided under the heading PUBLIC SAFETY. It applies to the non-TIH materials only. In addition, for evacuation purposes, the guide informs the user under the title EVACUATION-SPILLS to increase, for non-highlighted substances, in the downwind direction, if necessary, the immediate isolation distance listed under "Public Safety." For example, Guide 124 - Gases-Toxic and/or Corrosive-Oxidizing, instructs the user to: Isolate the spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions. In case of a large spill, the isolation area could be expanded from 100 meters to a distance deemed as safe by the On-scene-commander and emergency responders.

If you are dealing with a non-TIH material and the guide refers only to non-TIH materials, the immediate isolation and evacuation distances are specified as actual distances in the guide (orange-bordered pages) and are not referenced in the green-bordered pages.

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SAFETY PRECAUTIONS

APPROACH CAUTIOUSLY FROM UPWIND. Resist the urge to rush in; others cannot be helped until the situation has been fully assessed.

SECURE THE SCENE. Without entering the immediate hazard area, isolate the area and assure the safety of people and the environment, keep people away from the scene and outside the safety perimeter. Allow enough room to move and remove your own equipment.

IDENTIFY THE HAZARDS. Placards, container labels, shipping documents, material safety data sheets, Rail Car and Road Trailer Identification Charts, and/or knowledgeable persons on the scene are valuable information sources. Evaluate all available information and consult the recommended guide to reduce immediate risks. **Additional information, provided by the shipper or obtained from another authoritative source, may change some of the emphasis or details found in the guide.** Remember, the guide provides only the most important and worst case scenario information for the initial response in relation to a family or class of dangerous goods. As more material-specific information becomes available, the response should be tailored to the situation.

ASSESS THE SITUATION. Consider the following:

- Is there a fire, a spill or a leak?
- What are the weather conditions?
- What is the terrain like?
- Who/what is at risk: people, property or the environment?
- What actions should be taken: Is an evacuation necessary? Is diking necessary? What resources (human and equipment) are required and are readily available?
- What can be done immediately?

OBTAIN HELP. Advise your headquarters to notify responsible agencies and call for assistance from qualified personnel.

DECIDE ON SITE ENTRY. Any efforts made to rescue persons, protect property or the environment must be weighed against the possibility that you could become part of the problem. Enter the area only when wearing appropriate protective gear (see PROTECTIVE CLOTHING, page 364).

RESPOND. Respond in an appropriate manner. Establish a command post and lines of communication. Rescue casualties where possible and evacuate if necessary. Maintain control of the site. Continually reassess the situation and modify the response accordingly. The first duty is to consider the safety of people in the immediate area, including your own.

ABOVE ALL — Do not walk into or touch spilled material. Avoid inhalation of fumes, smoke and vapors, even if no dangerous goods are known to be involved. Do not assume that gases or vapors are harmless because of lack of a smell—odorless gases or vapors may be harmful.

WHO TO CALL FOR ASSISTANCE

Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Follow the steps outlined in your organization's standard operating procedures and/or local emergency response plan for obtaining qualified assistance. Generally, the notification sequence and requests for technical information beyond what is available in this guidebook should occur in the following order:

1. ORGANIZATION/AGENCY

Notify your organization/agency. This will set in motion a series of events based upon the information provided. Actions may range from dispatching additional trained personnel to the scene to activating the local emergency response plan. Ensure that local fire and police departments have been notified.

2. EMERGENCY RESPONSE TELEPHONE NUMBER

Locate and call the telephone number listed on the shipping document. The person answering the phone at the listed emergency response number must be knowledgeable of the materials and mitigation actions to be taken, or must have immediate access to a person who has the required knowledge.

3. NATIONAL ASSISTANCE

Contact the appropriate emergency response agency listed on the inside back cover of this guidebook when the emergency response telephone number is not available. Upon receipt of a call describing the nature of the incident, the agency will provide immediate advice on handling the early stages of the incident. The agency will also contact the shipper or manufacturer of the material for more detailed information and request on-scene assistance when necessary.

Collect and provide as much of the following information as can safely be obtained to your chain-of-command and specialists contacted for technical guidance:

Your name, call back telephone number, FAX number

Location and nature of problem (spill, fire, etc.)

Name and identification number of material(s) involved

Shipper/consignee/point of origin

Carrier name, rail car or truck number

Container type and size

Quantity of material transported/released

Local conditions (weather, terrain, proximity to schools, hospitals, waterways, etc.)

Injuries and exposures

Local emergency services that have been notified

CANADA

1. CANUTEC

CANUTEC is the **Canadian Transport Emergency Centre** operated by the Transport Dangerous Goods Directorate of Transport Canada.

CANUTEC provides a national bilingual (French and English) advisory service and is staffed by professional chemists experienced and trained in interpreting technical information and providing emergency response advice.

In an emergency, CANUTEC may be called collect at 613-996-6666 (24 hours) *666 cellular (Press Star 666, Canada only)

In a non-emergency situation, please call the information line at 613-992-4624 (24 hours).

2. PROVINCIAL AGENCIES

Although technical information and emergency response assistance can be obtained from **CANUTEC**, there are federal and provincial regulations requiring the reporting of dangerous goods incidents to certain authorities.

The following list of provincial agencies is supplied for your convenience.

Province	Emergency Authority and/or Telephone Number
Alberta	Local Police and Provincial Authorities 1-800-272-9600*
British Columbia	Local Police or 1-800-663-3456
Manitoba	Local Police or fire brigade, as appropriate, or 204-945-4888
New Brunswick	Local Police or 1-800-565-1633** or 902-426-6030
Newfoundland	Local Police or 709-772-2083
Northwest Territories	867-920-8130
Nova Scotia	Local Police or 1-800-565-1633** or 902-426-6030
Nunavut	867-920-8130
Ontario	Local Police
Prince Edward Island	Local Police or 1-800-565-1633** or 902-426-6030
Quebec	Local Police
Saskatchewan	Local Police or 1-800-667-7525
Yukon Territory	867-667-7244

^{*} This number is not accessible from outside Alberta.

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^{**} This number is not accessible from outside of New Brunswick, Nova Scotia or Prince Edward Island.

NOTE:

- 1. The appropriate federal agency must be notified in the case of rail, air or marine incidents.
- The nearest police department must be notified in the case of lost, stolen or misplaced explosives, radioactive materials or infectious substances.
- 3. **CANUTEC must** be notified in the case of:

 - a. lost, stolen or misplaced infectious substances;b. an incident involving infectious substances;
 - c. an incident where the shipping documents display CANUTEC's telephone number 613-996-6666 as the emergency telephone number; or
 - d. a dangerous goods incident in which a railway vehicle is involved.

UNITED STATES

CHEMTREC®, a 24-hour emergency response communication service, can be reached as follows:

CALL **CHEMTREC*** (24 hours) 1-800-424-9300

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) For calls originating elsewhere: 703-527-3887 (Collect calls are accepted)

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CHEM-TEL, INC., a 24-hour emergency response communication service, can be reached as follows:

CALL **CHEM-TEL**, **INC**. (24 hours) 1-800-255-3924

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) For calls originating elsewhere: 813-248-0585 (Collect calls are accepted)

or

3. INFOTRAC, a 24-hour emergency response communication service, can be reached as follows:

CALL **INFOTRAC** (24 hours) 1-800-535-5053

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) For calls originating elsewhere: 352-323-3500 (Collect calls are accepted) or

4. **3E COMPANY**, a 24-hour emergency response communication service, can be reached as follows:

CALL **3E COMPANY** (24 hours) **1-800-451-8346**

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands)
For calls originating elsewhere:
760-602-8703 (Collect calls are accepted)

The emergency response information services shown above have requested to be listed as providers of emergency response information and have agreed to provide emergency response information to all callers. They maintain periodically updated lists of state and Federal radiation authorities who provide information and technical assistance on handling incidents involving radioactive materials.

5. NATIONAL RESPONSE CENTER (NRC)

The NRC, which is operated by the U.S. Coast Guard, receives reports required when dangerous goods and hazardous substances are spilled. After receiving notification of an incident, the NRC will immediately notify the appropriate Federal On-Scene Coordinator and concerned Federal agencies. Federal law requires that anyone who releases into the environment a reportable quantity of a hazardous substance (including oil when water is, or may be affected) or a material identified as a marine pollutant, must **immediately** notify the NRC. When in doubt as to whether the amount released equals the required reporting levels for these materials, the NRC should be notified.

CALL **NRC** (24 hours) **1-800-424-8802**

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) **202-267-2675** in the District of Columbia

Calling the emergency response telephone number, CHEMTREC*, CHEM-TEL, INC., INFOTRAC or 3E COMPANY, does not constitute compliance with regulatory requirements to call the NRC.

6. MILITARY SHIPMENTS

For assistance at incidents involving materials being shipped by, for, or to the Department of Defense (DOD), call one of the following numbers (24 hours):

703-697-0218 (call collect) (U.S. Army Operations Center) for incidents involving explosives and ammunition.

1-800-851-8061 (toll free in the U.S.) (Defense Logistics Agency) for incidents involving dangerous goods other than explosives and ammunition.

The above numbers are for **emergencies** only.

MEXICO

1. **SETIQ** (Emergency Transportation System for the Chemical Industry), a service of the National Association of Chemical Industries (ANIQ), can be reached as follows:

Call SETIQ (24 hours)
01-800-00-214-00 in the Mexican Republic
For calls originating in Mexico City and the Metropolitan Area
5559-1588
For calls originating elsewhere, call
0-11-52-5-559-1588

CECOM, the National Center for Communications of the Civil Protection Agency, can be reached as follows:

CALL CECOM (24 hours)
01-800-00-413-00 in the Mexican Republic
For calls originating in Mexico City and the Metropolitan Area
5550-1496, 5550-1552, 5550-1485, or 5550-4885
For calls originating elsewhere, call
0-11-52-5-550-1496, or 0-11-52-5-550-1552
0-11-52-5-550-1485, or 0-11-52-5-550-4885

HAZARD CLASSIFICATION SYSTEM

The hazard class of dangerous goods is indicated either by its class (or division) number or name. For a placard corresponding to the primary hazard class of a material, the hazard class or division number must be displayed in the lower corner of the placard. However, no hazard class or division number may be displayed on a placard representing the subsidiary hazard of a material. For other than Class 7 or the OXYGEN placard, text indicating a hazard (for example, "CORROSIVE") is not required. Text is shown only in the U.S. The hazard class or division number must appear on the shipping document after each shipping name.

Class 1 - Explosives

Division 1.1	Explosives with a mass explosion hazard
Division 1.2	Explosives with a projection hazard
Division 1.3	Explosives with predominantly a fire hazard
Division 1.4	Explosives with no significant blast hazard
Division 1.5	Very insensitive explosives; blasting agents
Division 1.6	Extremely insensitive detonating articles

Class 2 - Gases

Division 2.1	Flammable gases

Division 2.2 Non-flammable, non-toxic* compressed gases

Division 2.3 Gases toxic* by inhalation Corrosive gases (Canada)

Class 3 - Flammable liquids (and Combustible liquids [U.S.])

Class 4 - Flammable solids; Spontaneously combustible materials; and Dangerous when wet materials

Division 4.1 Flammable solids

Division 4.2 Spontaneously combustible materials Division 4.3 Dangerous when wet materials

Class 5 - Oxidizers and Organic peroxides

Division 5.1 Oxidizers
Division 5.2 Organic peroxides

Class 6 - Toxic* materials and Infectious substances

Division 6.1 Toxic* materials
Division 6.2 Infectious substances

Class 7 - Radioactive materials

Class 8 - Corrosive materials

Class 9 - Miscellaneous dangerous goods

Division 9.1 Miscellaneous dangerous goods (Canada)
Division 9.2 Environmentally hazardous substances (Canada)

Division 9.3 Dangerous wastes (Canada)

^{*} The words "poison" or "poisonous" are synonymous with the word "toxic".

<u>NOTES</u>

INTRODUCTION TO THE TABLE OF PLACARDS

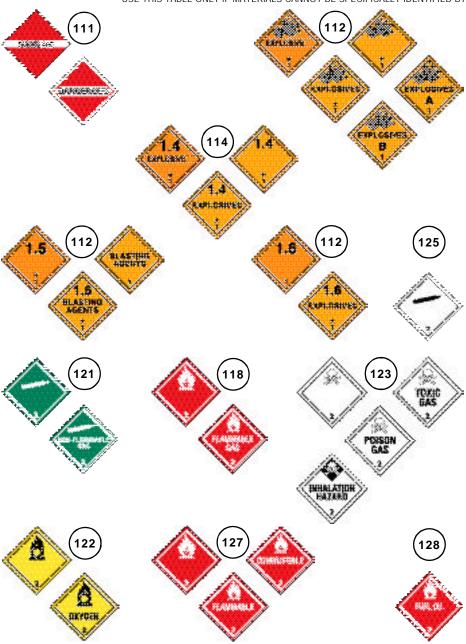
USE THIS TABLE ONLY IF YOU HAVE NOT BEEN ABLE TO IDENTIFY THE MATERIAL(S) IN TRANSPORT BY ID NUMBER OR NAME

The next two pages display the placards used on transport vehicles carrying dangerous goods. As you approach a reported or suspected dangerous goods incident involving a placarded vehicle:

- Approach the incident cautiously from upwind to a point from which you can safely identify and/or read the placard or orange panel information. If wind direction allows, consider approaching the incident from uphill. Use binoculars, if available.
- 2. Match the vehicle placard(s) with one of the placards displayed on the following pages.
- 3. Consult the numbered guide associated with the sample placard. Use that information for now. For example, a FLAMMABLE (Class 3) placard leads to Guide 127. A CORROSIVE (Class 8) placard leads to Guide 153. If multiple placards point to more than one guide, initially use the most conservative guide (i.e., the guide requiring the greatest degree of protective actions).
- 4. Remember that the guides associated with the placards provide the most significant risk and/or hazard information.
- When specific information, such as ID number or shipping name, becomes available, the more specific guide recommended for that material must be consulted.
- 6. If Guide 111 is being used because only the DANGER/DANGEROUS placard is displayed or the nature of the spilled, leaking, or burning material is not known, as soon as possible, get more specific information concerning the material(s) involved.
- 7. Asterisks (*) on orange placards represent explosives "Compatibility Group" letters; refer to the Glossary (page 372).

TABLE OF PLACARDS AND INITIAL

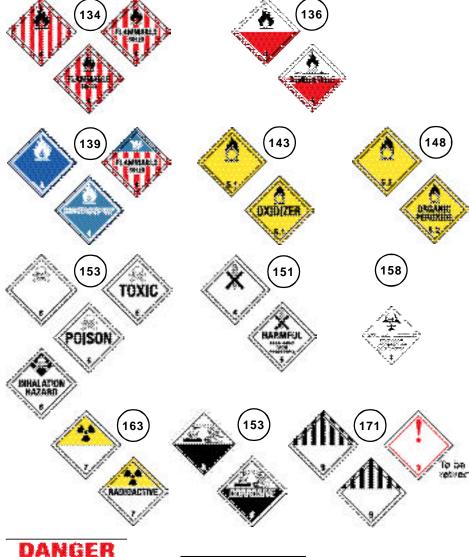
USE THIS TABLE ONLY IF MATERIALS CANNOT BE SPECIFICALLY IDENTIFIED BY



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RESPONSE GUIDES TO USE ON-SCENE

USING THE SHIPPING DOCUMENT, NUMBERED PLACARD, OR ORANGE PANEL NUMBER

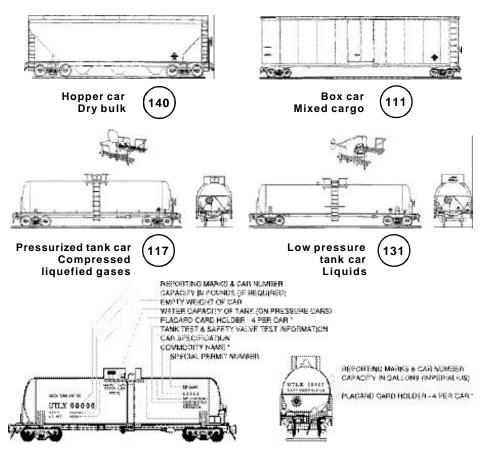








RAIL CAR IDENTIFICATION CHART*

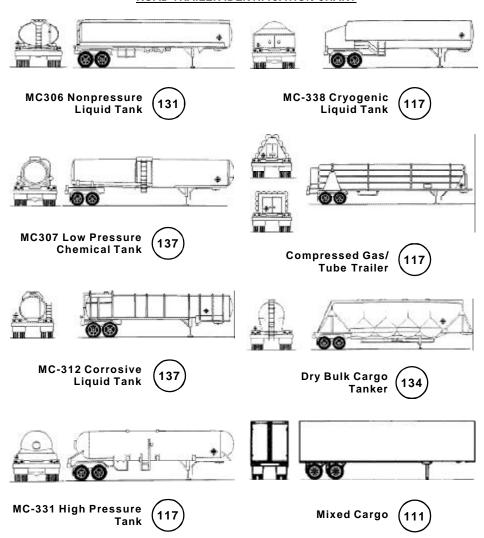


CAUTION: Emergency response personnel must be aware that rail tank cars vary widely in construction, fittings and purpose. Tank cars could transport products that may be solids, liquids or gases. The products may be under pressure. It is essential that products be identified by consulting shipping documents or train consist or contacting dispatch centers before emergency response is initiated.

The information stenciled on the sides or ends of tank cars, as illustrated above, may be used to identify the product utilizing:

- a. the commodity name shown; or
- the other information shown, especially reporting marks and car number which, when supplied to a dispatch center, will facilitate the identification of the product.
- * The recommended guides should be considered as last resort if product cannot be identified by any other means.

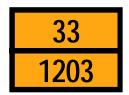
ROAD TRAILER IDENTIFICATION CHART*



CAUTION: This chart depicts only the most general shapes of road trailers. Emergency response personnel must be aware that there are many variations of road trailers, not illustrated above, that are used for shipping chemical products. The suggested guides are for the most hazardous products that may be transported in these trailer types.

* The recommended guides should be considered as last resort if product cannot be identified by any other means.

Hazard identification codes, referred to as 'hazard identification numbers" under European and some South American regulations, may be found in the top half of an orange panel on some intermodal bulk containers. The 4-digitidentification number is in the bottom half of the orange panel.



The hazard identification code in the top half of the orange panel consists of two or three figures. In general, the figures indicate the following hazards:

- 2 EMISSION OF GAS DUE TO PRESSURE OR CHEMICAL REACTION
- 3 FLAMMABILITY OF LIQUIDS (VAPORS) AND GASES OR SELF-HEATING LIQUID
- 4 FLAMMABILITY OF SOLIDS OR SELF-HEATING SOLID
- 5 OXIDIZING (FIRE-INTENSIFYING) EFFECT
- 6 TOXICITY OR RISK OF INFECTION
- 7 RADIOACTIVITY
- 8 CORROSIVITY
- 9 RISK OF SPONTANEOUS VIOLENT REACTION
- Doubling of a figure indicates an intensification of that particular hazard (i.e. 33, 66, 88).
- Where the hazard associated with a material can be adequately indicated by a single figure, the figure is followed by a zero (i.e. 30, 40, 50).
- A hazard identification code prefixed by the letter "X" indicates that the material will react dangerously with water (i.e. X88).

The hazard identification codes listed below have the following meanings:

20	Inert gas
22	Refrigerated gas
223	Refrigerated gas, flammable
225	Refrigerated gas, oxidizing (fire-intensifying)
23	Flammable gas
236	Flammable gas, toxic
239	Flammable gas which can spontaneously lead to violent reaction
25	Oxidizing (fire-intensifying) gas
26	Toxic gas
263	Toxic gas, flammable
265	Toxic gas, oxidizing (fire-intensifying)
266	Highly toxic gas
268	Toxic gas, corrosive
30	Flammable liquid
323	Flammable liquid which reacts with water, emitting flammable gas
X323	Flammable liquid which reacts dangerously with water, emitting flammable gas
33	Highly flammable liquid
333	Pyrophoric liquid
X333	Pyrophoric liquid which reacts dangerously with water
336	Highly flammable liquid, toxic
338	Highly flammable liquid, corrosive
X338	Highly flammable liquid, corrosive, which reacts dangerously with water
339	Highly flammable liquid which can spontaneously lead to violent reaction
36	Flammable liquid, toxic, or self-heating liquid, toxic
362	Flammable liquid, toxic, which reacts with water, emitting flammable gas
X362	Flammable liquid, toxic, which reacts dangerously with water, emitting flammable gas
368	Flammable liquid, toxic, corrosive
38	Flammable liquid, corrosive
382	Flammable liquid, corrosive, which reacts with water, emitting flammable gas
X382	Flammable liquid, corrosive, which reacts dangerously with water, emitting flammable gas
39	Flammable liquid which can spontaneously lead to violent reaction
40	Flammable solid, or self-reactive material, or self-heating material
423	Solid which reacts with water, emitting flammable gas

X423 43 44 446 46 462 X462 48 482 X482	Flammable solid which reacts dangerously with water, emitting flammable gas Spontaneously flammable (pyrophoric) solid Flammable solid, in the molten state at an elevated temperature Flammable solid, toxic, in the molten state at an elevated temperature Flammable solid, toxic, or self-heating solid, toxic Toxic solid which reacts with water, emitting flammable gas Solid which reacts with water, emitting toxic gas Flammable or self-heating solid, corrosive Corrosive solid which reacts with water, emitting flammable gas Solid which reacts dangerously with water, emitting corrosive gas
50	Oxidizing (fire-intensifying) substance
539	Flammable organic peroxide
55 556	Strongly oxidizing (fire-intensifying) substance Strongly oxidizing (fire-intensifying) substance, toxic
558	Strongly oxidizing (fire-intensifying) substance, corrosive
559	Strongly oxidizing (fire-intensifying) substance which can spontaneously lead to violent reaction
56	Oxidizing (fire-intensifying) substance, toxic
568	Oxidizing (fire-intensifying) substance, toxic, corrosive
58	Oxidizing (fire-intensifying) substance, corrosive
59	Oxidizing (fire intensifying) substance which can spontaneously lead to violent reaction
60	Toxic material
606	Infectious substance
623	Toxic liquid which reacts with water, emitting flammable gas
63	Toxic liquid, flammable
638	Toxic liquid, flammable, corrosive
639	Toxic liquid, flammable, which can spontaneously lead to violent reaction
64	Toxic solid, flammable or self-heating
642	Toxic solid which reacts with water, emitting flammable gas
65	Toxic material, oxidizing (fire-intensifying)
66	Highly toxic material
663 664	Highly toxic liquid, flammable Highly toxic solid, flammable or self-heating
665	Highly toxic soild, harrinable of self-fleating Highly toxic material, oxidizing (fire-intensifying)
668	Highly toxic material, oxidizing (ine-intensitying)
000	ringing tonic material, corrosive

669	Highly toxic material which can spontaneously lead to violent reaction
68	Toxic material, corrosive
69	Toxic material which can spontaneously lead to violent reaction
70	Radioactive material
72	Radioactive gas
723	Radioactive gas, flammable
73	Radioactive liquid, flammable
74	Radioactive solid, flammable
75	Radioactive material, oxidizing (fire-intensifying)
76	Radioactive material, toxic
78	Radioactive material, corrosive
80	Corrosive material
X80	Corrosive material which reacts dangerously with water
823	Corrosive liquid which reacts with water, emitting flammable gas
83	Corrosive liquid, flammable
X83	Corrosive liquid, flammable, which reacts dangerously with water
839	Corrosive liquid, flammable, which can spontaneously lead to violent reaction
X839	Corrosive liquid, flammable, which can spontaneously lead to violent reaction and which reacts dangerously with water
84	Corrosive solid, flammable or self-heating
842	Corrosive solid which reacts with water, emitting flammable gas
85	Corrosive material, oxidizing (fire-intensifying)
856	Corrosive material, oxidizing and toxic
86	Corrosive material, toxic
88	Highly corrosive material
X88	Highly corrosive material which reacts dangerously with water
883	Highly corrosive liquid, flammable
884	Highly corrosive solid, flammable or self-heating
885	Highly corrosive material, oxidizing (fire-intensifying)
886	Highly corrosive material, toxic
X886	Highly corrosive material, toxic, which reacts dangerously with water
89	Corrosive material which can spontaneously lead to violent reaction
90	Miscellaneous dangerous substance; environmentally hazardous substance
99	Miscellaneous dangerous substance transported at elevated temperature

Note:

If an entry is highlighted in either the yellow-bordered or blue-bordered pages AND THERE IS NO FIRE, go directly to the Table of Initial Isolation and Protective Action Distances (green-bordered pages) and look up the ID number and name of material to obtain initial isolation and protective action distances. IF THERE IS A FIRE, or IF A FIRE IS INVOLVED, go directly to the appropriate guide (orange-bordered pages) and use the evacuation information shown under PUBLIC SAFETY.

- 153 Chemical kits (containing toxic liquids) - 154 Chemical kits (containing toxic solids) - 129 1-Chloroheptane - 129 1-Chlorohexane - 152 m-Dichlorobenzene - 153 2-Ethyl-3-propylacrolein - 112 Explosive A - 112 Explosive B - 114 Explosives, division 1.1, 1.2, 1.3, 1.5 or 1.6 - 114 Explosives, division 1.4 - 115 Chemical kits (containing toxic liquids) 1005 125 Anhydrous ammonia 1005 125 Anhydrous ammonia, liquefied 1006 121 Argon 1006 121 Argon 1008 125 Boron trifluoride 1008 125 Boron trifluoride 1009 126 Refrigerant gas R-13B1 1010 116P Butadienes, inhibited 1011 115 Butane 1011 115 Butane 1012 115 Butylene 1013 120 Carbon dioxide, compressed	ID No.	Guio No.		ID No.	Guio No	
158 Biological agents 171 Blasting agent, n.o.s 171 Cargo transport unit under fumigation 154 Chemical kits (containing flammable liquids) 130 Chemical kits (containing flammable solids) 140 Chemical kits (containing oxidizing substances) 153 Chemical kits (containing poisonous liquids) 154 Chemical kits (containing poisonous liquids) 155 Chemical kits (containing poisonous solids) 156 Chemical kits (containing poisonous solids) 157 Chemical kits (containing poisonous solids) 158 Chemical kits (containing poisonous solids) 159 Chemical kits (containing toxic liquids) 150 Chemical kits (containing toxic liquids) 157 Chemical kits (containing toxic liquids) 158 Chemical kits (containing toxic liquids) 159 Chemical kits (containing toxic liquids) 150 Chemical kits (containing toxic liquids) 150 Chemical kits (containing toxic liquids) 157 Chemical kits (containing toxic liquids) 158 Chemical kits (containing toxic liquids) 159 Chemical kits (containing toxic liquids) 150 Chemical kits (containing toxic liquids) 159 Chemical kits (containing toxic liquids) 150 Chemical kits (containing toxic liquids) 150 Chemical kits (containing toxic liquids) 151 Chemical kits (containing toxic liquids) 152 Chemical kits (containing toxic liquids) 153 Chemical kits (containing toxic liquids) 154 Chemical kits (containing toxic liquids) 155 Chemical kits (containing toxic liquids) 156 Chemical kits (containing toxic liquids) 151 Chemical kits (containing toxic liquids) 152 Ammonia, anhydrous liquefied 105 125 Ammonia, anhydrous liquefied 105 125 Ammonia, anhydrous liquefied 106 121 Argon look liquefied 107 121 Argon look liquefied 108 125 Boron trifluoride liquefied 108 125 Boron trifluoride liquefied 108 125 Boron trifluoride liquefied 108 126 Boron trifluoride li		112			159	Methylbromoacetone
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- 171 Cargo transport unit under fumigation - 154 Chemical kits (containing corrosive substances) - 128 Chemical kits (containing flammable liquids) - 133 Chemical kits (containing flammable solids) - 140 Chemical kits (containing oxidizing substances) - 153 Chemical kits (containing poisonous liquids) - 154 Chemical kits (containing poisonous solids) - 155 Chemical kits (containing poisonous solids) - 156 Chemical kits (containing poisonous solids) - 157 Chemical kits (containing toxic liquids) - 158 Chemical kits (containing toxic solids) - 159 Chemical kits (containing toxic liquids) - 150 Chemical kits (containing toxic solids) - 150 Chemical kits (containing toxic solids) - 151 Chemical kits (containing toxic solids) - 152 Chemical kits (containing toxic liquids) - 153 Chemical kits (containing toxic solids) - 154 Chemical kits (containing toxic solids) - 155 Chemical kits (containing toxic liquids) - 156 Chemical kits (containing toxic solids) - 157 Chemical kits (containing toxic liquids) - 158 Chemical kits (containing toxic liquids) - 159 Chemical kits (containing toxic liquids) - 150 Chemical kits (containing toxic liquids) - 154 Chemical kits (containing toxic liquids) - 155 Chemical kits (containing toxic liquids) - 156 Chemical kits (containing toxic liquids) - 157 Ammonia, anhydrous liquefied - 1005 125 Amponia solution, with more than 50% Ammonia - 1005 125 Anhydrous ammonia liquefied - 1006 121 Argon - 1006 121 Argon - 1007 125 Amponia solution, with more than 50% Ammonia - 1008 125 Boron trifluoride - 1009 126 Refrigerant gas R-13B1 - 1109 116 Acetylene - 1109 120 Air, refrigerated liquid (cryogenic liquid) - 1008 125 Ammonia, anhydrous liques liques liques liq			•		171	Plastic molding material
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112 Explosives, division 1.1, 1.2, 1.3, 1.5 or 1.6 114 Explosives, division 1.4 133 Fibres, animal or vegetable, burnt, wet or damp 1011 115 Butane 1011 115 Butane 1012 115 Butylene 1013 120 Carbon dioxide 1013 120 Carbon dioxide, compressed			·	1010	116F	P Butadienes, inhibited
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- 133 Fibres, animal or vegetable, burnt, wet or damp 1013 120 Carbon dioxide 1013 120 Carbon dioxide, compressed		112				
burnt, wet or damp 1013 120 Carbon dioxide, compressed		114	Explosives, division 1.4			*
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- 133 Fibres yegetable dry 1014 122 Carbon dioxide and Oxygen mixtur			·			·
		133	Fibres, vegetable, dry	1014	122	Carbon dioxide and Oxygen mixture

	Guid No.		ID No.	Guid No.	
1014	122	Carbon dioxide and Oxygen	1030	115	1,1-Difluoroethane
1011	400	mixture, compressed	1030	115	Difluoroethane
1014	122	Oxygen and Carbon dioxide mixture	1030	115	Refrigerant gas R-152a
1014	122	Oxygen and Carbon dioxide	1032	118	Dimethylamine, anhydrous
		mixture, compressed	1033		Dimethyl ether
1015	126	Carbon dioxide and Nitrous oxide mixture	1035 1035	115 115	Ethane Ethane, compressed
1015	126	Nitrous oxide and Carbon		118	Ethylamine
		dioxide mixture	1037		Ethyl chloride
1016	119	Carbon monoxide	1038		Ethylene, refrigerated liquid
1016	119	Carbon monoxide, compressed			(cryogenic liquid)
1017	124	Chlorine	1039	115	Ethyl methyl ether
1018	126	Chlorodifluoromethane	1039	115	Methyl ethyl ether
1018	126	Refrigerant gas R-22	1040	119P	Ethylene oxide
	126	'	1040	119P	Ethylene oxide with Nitrogen
		Refrigerant gas R-115	1041	115	
1021	126	1-Chloro-1,2,2,2- tetrafluoroethane			oxide mixture, with more than 9% but not more than 87% Ethylene oxide
1021	126	Chlorotetrafluoroethane	10/1	115	Carbon dioxide and Ethylene
1021	126	Refrigerant gas R-124	1041	113	oxide mixtures, with more
1022	126	Chlorotrifluoromethane			than 6% Ethylene oxide
1022		Refrigerant gas R-13	1041	115	Ethylene oxide and Carbon dioxide mixture, with more
1023	119	Coal gas			than 9% but not more than
1023		Coal gas, compressed			87% Ethylene oxide
1026		Cyanogen	1041	115	Ethylene oxide and Carbon
		Cyanogen, liquefied			dioxide mixtures, with more than 6 % Ethylene oxide
1026		Cyanogen gas	1043	125	Fertilizer, ammoniating solution,
1027		Cyclopropane			with free Ammonia
1027		Cyclopropane, liquefied	1044	126	Fire extinguishers with
1028		Dichlorodifluoromethane	l		compressed gas
1028		Refrigerant gas R-12	1044	126	Fire extinguishers with liquefied gas
	126	Dichlorofluoromethane	1045	12/	Fluorine
1029	126	Refrigerant gas R-21	1043	124	Tuoring

ID No.	Guio No.		ID No.	Guio No	
1045 1046		Fluorine, compressed Helium	1060	116F	P Methylacetylene and Propadiene mixture, stabilized
1046 1048 1049	125	Helium, compressed Hydrogen bromide, anhydrous Hydrogen	1060	116F	P Propadiene and Methylacetylene mixture, stabilized
1049	115	Hydrogen, compressed	1061	118	Methylamine, anhydrous
1050	125	Hydrogen chloride, anhydrous	1062	123	Methyl bromide
1051	117	AC	1063	115	Methyl chloride
1051	117	Hydrocyanic acid, aqueous	1063	115	Refrigerant gas R-40
		solutions, with more than 20%	1064	117	Methyl mercaptan
1051	117	Hydrogen cyanide	1065	121	Neon
	117 117	Hydrocyanic acid, liquefied	1065	121	Neon, compressed
1051	117	Hydrogen cyanide, anhydrous, stabilized	1066	121	Nitrogen
1051	117	Hydrogen cyanide, stabilized	1066	121	Nitrogen, compressed
1052	125	Hydrogen fluoride, anhydrous	1067	124	Dinitrogen tetroxide
1053		Hydrogen sulfide	1067	124	Dinitrogen tetroxide, liquefied
	117	Hydrogen sulfide, liquefied	1067	124	Nitrogen dioxide
1053	117	Hydrogen sulphide	1067	124	Nitrogen dioxide, liquefied
1053	117		1067	124	Nitrogen peroxide, liquid
1055	115	Isobutylene	1067	124	Nitrogen tetroxide, liquid
1056	121	Krypton	1069	125	Nitrosyl chloride
1056	121	Krypton, compressed	1070	122	Nitrous oxide
1057	115	Cigarette lighter, with flammable	1070	122	Nitrous oxide, compressed
		gas	1071	119	Oil gas
1057	115	Flammable gas in lighter for	1071	119	Oil gas, compressed
4057	445	cigars, cigarettes, etc.	1072	122	Oxygen
1057	115	Lighter refills (cigarettes) (flammable gas)	1072	122	Oxygen, compressed
1057	115	Lighters (cigarettes) (flammable gas)	1073	122	Oxygen, refrigerated liquid (cryogenic liquid)
1058	121	Liquefied gas (nonflammable)	1075	115	Butane
1058		Liquefied gases, non-flammable,	1075		Butane mixture
.000		charged with Nitrogen,	1075	115	Butylene
		Carbon dioxide or Air	1075	115	Isobutane

ID Guide Name of Materia No. No.	al ID Guide Name of Material No. No.
1075 115 Isobutane mixture	1089 129 Acetaldehyde
1075 115 Isobutylene	1090 127 Acetone
1075 115 Liquefied petroleum gas	1091 127 Acetone oils
1075 115 LPG	1092 131P Acrolein, inhibited
1075 115 Petroleum gases, liquefied	1093 131P Acrylonitrile, inhibited
1075 115 Propane	1098 131 Allyl alcohol
1075 115 Propane mixture	1099 131 Allyl bromide
1075 115 Propylene	1100 131 Allyl chloride
1076 125 CG	1104 129 Amyl acetates
1076 125 Diphosgene	1105 129 Amyl alcohols
1076 125 DP	1105 129 Pentanols
1076 125 Phosgene	1106 132 Amylamines
1077 115 Propylene	1107 129 Amyl chloride
1078 126 Dispersant gas, n.o.s.	1108 127 n-Amylene
1078 126 Refrigerant gas, n.o.s.	1108 127 1-Pentene
1079 125 Sulfur dioxide	1109 129 Amyl formates
1079 125 Sulfur dioxide, liquefied	1110 127 n-Amyl methyl ketone
1079 125 Sulphur dioxide	1110 127 Amyl methyl ketone
1079 125 Sulphur dioxide, liquefied	1110 127 Methyl amyl ketone
1080 126 Sulfur hexafluoride	1111 130 Amyl mercaptan
1080 126 Sulphur hexafluoride	1112 140 Amyl nitrate
1081 116P Tetrafluoroethylene, inhibit	ed 1113 129 Amyl nitrite
1082 119P Trifluorochloroethylene	1114 130 Benzene
1082 119P Trifluorochloroethylene,	1118 130 Brake fluid, hydraulic
inhibited	1120 129 Butanols
1083 118 Trimethylamine, anhydrous	1120 129 Butyl alcohol
1085 116P Vinyl bromide, inhibited	1123 129 Butyl acetates
1086 116P Vinyl chloride	1125 132 n-Butylamine
1086 116P Vinyl chloride, inhibited	1126 129 1-Bromobutane
1086 116P Vinyl chloride, stabilized	1126 129 n-Butyl bromide
1087 116P Vinyl methyl ether	1127 130 Butyl chloride
1087 116P Vinyl methyl ether, inhibited	1127 130 Chlorobutanes
1088 127 Acetal	1128 129 n-Butyl formate

No.	Guid No.			Guid No.	
1129	129	Butyraldehyde	1149	127	Dibutyl ethers
1130	128	Camphor oil	1150	130P	1,2-Dichloroethylene
1131	131	Carbon bisulfide	1150	130P	Dichloroethylene
1131	131	Carbon bisulphide	1152	130	Dichloropentanes
1131	131	Carbon disulfide	1153	127	Ethylene glycol diethyl ether
1131	131	Carbon disulphide	1154	132	Diethylamine
1133	128	Adhesives (flammable)	1155	127	Diethyl ether
1133	128	Cement (flammable)	1155	127	Ethyl ether
1133	128	Cement, container, linoleum, tile	1156	127	Diethyl ketone
		or wallboard, liquid	1157	127	Diisobutyl ketone
1133	128	Cement, leather	1158	132	Diisopropylamine
1133	128	Cement, liquid, n.o.s.	1159	127	Diisopropyl ether
1133		Cement, pyroxylin	1160	129	Dimethylamine, aqueous
		Cement, roofing, liquid	4410	400	solution
1133		Cement, rubber	1160		Dimethylamine, solution
		Chlorobenzene	1161		Dimethyl carbonate
	131	Ethylene chlorohydrin	1162		Dimethyldichlorosilane
1136		Coal tar distillates, flammable			1,1-Dimethylhydrazine
1137		Coal tar distillate	1163	131	Dimethylhydrazine, unsymmetrical
1139		Coating solution	1164	130	Dimethyl sulfide
1142	127	Compound, vulcanizing, liquid (flammable)	1164		Dimethyl sulphide
1142	127	Compounds, polishing, liquid,	1165	127	Dioxane
		etc. (flammable)	1166	127	Dioxolane
1142	127	Flammable liquid preparations, n.o.s.	1167	131P	Divinyl ether, inhibited
1143	131P	Crotonaldehyde, inhibited	1168	127	Driers, paint or varnish, liquid, n.o.s.
1143	131P	Crotonaldehyde, stabilized	1169	127	Extracts, aromatic, liquid
1144	128	Crotonylene	1170		Ethanol
1145	128	Cyclohexane	1170		Ethanol, solution
1146	128	Cyclopentane	1170		Ethyl alcohol
	130	Decahydronaphthalene	1170		Ethyl alcohol, solution
1147					•
1147 1148	129	Diacetone alcohol	1171	127	Ethylene glycol monoethyl ether

ID	Guid	de Name of Material	ID	Guid	de Name of Material
	No.			No.	
1172	129	Ethylene glycol monoethyl ether	1199	132P	Furaldehydes
		acetate	1199	132P	Furfural
1173	129	Ethyl acetate	1199	132P	Furfuraldehydes
1175	129	Ethylbenzene	1201	127	Fusel oil
1176	129	Ethyl borate	1202	128	Diesel fuel
1177	129	2-Ethylbutyl acetate	1202	128	Fuel oil
1177	129	Ethylbutyl acetate	1202	128	Fuel oil, no. 1,2,4,5,6
1178	129	2-Ethylbutyraldehyde	1202	128	Gas oil
1179	127	Ethyl butyl ether	1202	128	Heating oil, light
1180	129	Ethyl butyrate			Gasohol
1181	155	Ethyl chloroacetate	1203	128	Gasoline
1182	155	Ethyl chloroformate	1203	128	Motor spirit
1183	139	Ethyldichlorosilane	1203	128	Petrol
1184	129	Ethylene dichloride	1204	127	Nitroglycerin, solution in
		Ethyleneimine, inhibited			alcohol, with not more than
1188	127	Ethylene glycol monomethyl ether	1204	127	1% Nitroglycerin Spirits of Nitroglycerin, not
1100	129		1204	127	exceeding 1 % Nitroglycerin
1107	127	ether acetate	1206	128	Heptanes
1190	129	Ethyl formate	1207	129	Hexaldehyde
1191	129	Ethylhexaldehydes	1208	128	Hexanes
1191	129	Octyl aldehydes	1208	128	Neohexane
1192	129	Ethyl lactate	1210	129	Ink, printer's, flammable
1193	127	Ethyl methyl ketone	1210	129	Printing ink, flammable
1193	127	Methyl ethyl ketone	1210	129	Printing ink related material
1194	131	Ethyl nitrite, solution	1212	129	Isobutanol
1195	129	Ethyl propionate	1212	129	Isobutyl alcohol
1196	155	Ethyltrichlorosilane	1213	129	Isobutyl acetate
1197	127	Extracts, flavoring, liquid	1214	132	Isobutylamine
1197	127	Extracts, flavouring, liquid	1216	128	Isooctene
1198	132	<i>y</i> .	1218	130P	Isoprene, inhibited
		flammable	1219	129	Isopropanol
1198	132	Formaldehyde, solutions (Formalin)	1219	129	Isopropyl alcohol
		(i Ullialili)			
		· ·			

 1220 129 Isopropyl acetate 1221 132 Isopropylamine 1222 130 Isopropyl nitrate 1223 128 Kerosene 1224 127 Ketones, liquid, n.o.s. 1226 127 Cigarette lighter, with flammal liquid 1226 127 Lighters for cigars, cigarettes etc. with lighter fluid 1226 127 Lighters for cigars, cigarettes 	1247 129P Methyl methacrylate monomer, uninhibited 1248 129 Methyl propionate 1249 127 Methyl propyl ketone
 1222 130 Isopropyl nitrate 1223 128 Kerosene 1224 127 Ketones, liquid, n.o.s. 1226 127 Cigarette lighter, with flammat liquid 1226 127 Lighters for cigars, cigarettes etc. with lighter fluid 1226 127 Lighters for cigars, cigarettes 	1246 127P Methyl isopropenyl ketone, inhibited 1247 129P Methyl methacrylate monomer, inhibited 1247 129P Methyl methacrylate monomer, uninhibited 1248 129 Methyl propionate 1249 127 Methyl propyl ketone
 1223 128 Kerosene 1224 127 Ketones, liquid, n.o.s. 1226 127 Cigarette lighter, with flammat liquid 1226 127 Lighters for cigars, cigarettes etc. with lighter fluid 1226 127 Lighters for cigars, cigarettes 	inhibited 1247 129P Methyl methacrylate monomer, inhibited 1247 129P Methyl methacrylate monomer, uninhibited 1248 129 Methyl propionate 1249 127 Methyl propyl ketone
 1224 127 Ketones, liquid, n.o.s. 1226 127 Cigarette lighter, with flammal liquid 1226 127 Lighters for cigars, cigarettes etc. with lighter fluid 1226 127 Lighters for cigars, cigarettes 	1247 129P Methyl methacrylate monomer, inhibited 1247 129P Methyl methacrylate monomer, uninhibited 1248 129 Methyl propionate 1249 127 Methyl propyl ketone
 1226 127 Cigarette lighter, with flammat liquid 1226 127 Lighters for cigars, cigarettes etc. with lighter fluid 1226 127 Lighters for cigars, cigarettes 	inhibited 1247 129P Methyl methacrylate monomer, uninhibited 1248 129 Methyl propionate 1249 127 Methyl propyl ketone
liquid 1226 127 Lighters for cigars, cigarettes etc. with lighter fluid 1226 127 Lighters for cigars, cigarettes	1247 129P Methyl methacrylate monomer, uninhibited 1248 129 Methyl propionate 1249 127 Methyl propyl ketone
etc. with lighter fluid 1226 127 Lighters for cigars, cigarettes	1248 129 Methyl propionate 1249 127 Methyl propyl ketone
	, , , ,
(flammable liquid)	1250 155 Methyltrichlorosilane
1228 131 Mercaptan mixture, aliphatic	1251 131P Methyl vinyl ketone
1228 131 Mercaptan mixture, liquid, flammable, poisonous, n.o.s	1251 131P Methyl vinyl ketone, stabilized
·	1233 120 Napililia, petroleulii
1228 131 Mercaptan mixture, liquid, flammable, toxic, n.o.s.	1255 128 Petroleum naphtha
1228 131 Mercaptan mixtures, liquid,	1256 128 Naphtha, solvent
n.o.s.	1257 128 Natural gasoline
1228 131 Mercaptans, liquid, flammable	e, 1259 131 Nickel carbonyl
poisonous, n.o.s.	1261 129 Nitromethane
1228 131 Mercaptans, liquid, flammable toxic, n.o.s.	
1229 129 Mesityl oxide	1262 128 Octanes
1230 131 Methanol	1263 128 Paint (flammable)
1230 131 Methyl alcohol	1263 128 Paint related material (flammable)
1231 129 Methyl acetate	1264 129 Paraldehyde
1232 127 Methyl acetone	1265 128 Isopentane
1233 129 Methylamyl acetate	1265 128 n-Pentane
1234 127 Methylal	1265 128 Pentanes
1235 132 Methylamine, aqueous solutio	on 1266 127 Perfumery products, with
1237 129 Methyl butyrate	flammable solvents
1238 155 Methyl chloroformate	1267 128 Petroleum crude oil
1239 131 Methyl chloromethyl ether	1268 128 Petroleum distillates, n.o.s.
1242 139 Methyldichlorosilane	1268 128 Petroleum products, n.o.s.
1243 129 Methyl formate	1270 128 Oil, petroleum, n.o.s.

	de Name of Material		Guid	
No. No.	Petroleum oil	No.	No.	Trimethylchlorosilane
	Petroleum ether	1299		Turpentine
	Petroleum spirit	1300		Turpentine substitute
1271 120 1272 129	·			Vinyl acetate
	n-Propanol			Vinyl acetate, inhibited
	normal Propyl alcohol			Vinyl ethyl ether
	Propyl alcohol, normal			Vinyl ethyl ether, inhibited
	Propionaldehyde			Vinylidene chloride, inhibited
	n-Propyl acetate			Vinyl isobutyl ether
1270 129 1277 132	. ,			Vinyl isobutyl ether, inhibited
	Propylamine			*
	1-Chloropropane	1305		Vinyltrichlorosilane
	Propyl chloride			Vinyltrichlorosilane, inhibited
	1,7	1306 1307		, ,
	1,2-Dichloropropane	1307		Xylenes
	Dichloropropane Dranylana dichlorida	1308	170	Zirconium metal, liquid, suspension
	Propylene dichloride	1308	170	·
	Propylene oxide			flammable liquid
	Propyl formates	1308	170	Zirconium suspended in a liquid
1282 129	•			(flammable)
1286 127				Aluminum powder, coated
1287 127 128 128	Rubber solution Shale oil	1310	113	Ammonium picrate, wetted with not less than 10% water
1289 132	Sodium methylate, alcohol	1312	133	Borneol
	mixture	1313	133	Calcium resinate
1289 132	Sodium methylate, solution in alcohol			Calcium resinate, fused
1292 132	Ethyl silicate			Cobalt resinate, precipitated
1292 132	Tetraethyl silicate	1320	113	Dinitrophenol, wetted with not less than 15% water
1293 127	Tinctures, medicinal	1321	113	Dinitrophenolates, wetted with
1294 130	Toluene	1021		not less than 15% water
1295 139	Trichlorosilane	1322	113	Dinitroresorcinol, wetted with
1296 132	Triethylamine	4601	4=-	not less than 15% water
1297 132	Trimethylamine, aqueous	1323		Ferrocerium
	solution	1324	133	Film

	Guid No.	de Name of Material	ID No.	Guid No.	
1324 1325		Films, nitrocellulose base Air bag inflators	1336	113	Nitroguanidine (Picrite), wetted with not less than 20% water
1325		Air bag modules	1336	113	Nitroguanidine, wetted with not less than 20% water
1325		Antimony sulfide, solid	1336	113	Picrite, wetted
13251325		Antimony sulphide, solid Burnt cotton, not picked	1337	113	Nitrostarch, wet, with not less than 30% alcohol or solvent
13251325		Cosmetics, n.o.s. Drugs, n.o.s.	1337	113	Nitrostarch, wetted with not less than 20% water
1325	133	Flammable solid, n.o.s.	1337	113	Nitrostarch, wetted with not less than 30% solvent
1325		Flammable solid, organic, n.o.s.	1338	133	Phosphorus, amorphous
1325		Fusee (rail or highway)			Phosphorus, amorphous, red
1325	133	Medicines, flammable, solid, n.o.s.		133	·
1325	133	N-Methyl-N'-Nitro-N-		133	Red phosphorus, amorphous
1325	133	Nitrosoguanidine Pyroxylin plastic, rod, sheet, roll, tube or scrap	1339	139	Phosphorus heptasulfide, free from yellow and white Phosphorus
1325	133	Smokeless powder for small arms	1339	139	Phosphorus heptasulphide, free from yellow and white Phosphorus
1326	170	Hafnium powder, wetted with not less than 25% water	1340	139	Phosphorus pentasulfide, free
1327	133	Bhusa, wet, damp or contaminated with oil			from yellow and white Phosphorus
1327	133	Hay, wet, damp or contaminated with oil	1340	139	Phosphorus pentasulphide, free from yellow and white Phosphorus
1327	133	Straw, wet, damp or contaminated with oil	1341	139	
1328	133	Hexamethylenetetramine			Phosphorus
1328	133	Hexamine	1341	139	Phosphorus sesquisulphide,
1330	133	Manganese resinate			free from yellow and white
1331	133	Matches, "strike anywhere"	1242	120	Phosphorus Phosphorus trisulfido froe from
1332	133	Metaldehyde	1343	139	Phosphorus trisulfide, free from yellow and white Phosphorus
1333	170	Cerium, slabs, ingots or rods	1343	139	Phosphorus trisulphide, free
1334	133	Naphthalene, crude			from yellow and white
1334	133	Naphthalene, refined			Phosphorus

D C No.	Guic No.	le Name of Material		Guid No.	
1344	113	Picric acid, wet, with not less than 10% water	1357	113	Urea nitrate, wetted with not less than 20% water
1344	113	Trinitrophenol, wetted with not less than 30% water	1358	170	Zirconium metal, powder, wet
1345	133	Rubber scrap, powdered or	1358	170	Zirconium powder, wetted with not less than 25% water
10 10	100	granulated	1360	139	Calcium phosphide
1345	133	Rubber shoddy, powdered or granulated		133	Carbon, animal or vegetable origin
1346	170	Silicon powder, amorphous	1361	133	Charcoal
1347	113	Silver picrate, wetted with not less than 30% water	1361	133	Charcoal, briquettes
1240	112	Sodium dinitro-o-cresolate,	1361	133	Charcoal, shell
		wetted with not less than 15% water	1361	133	Charcoal, wood, ground, crushed, granulated or pulverized
		Sodium dinitro-ortho-cresolate, wetted	1361	133	Charcoal screenings, made from "Pinon" wood
1349	113	Sodium picramate, wetted with not less than 20% water	1361	133	Charcoal screenings, other than "Pinon" wood screenings
		Sulfur	1362	133	Carbon, activated
		Sulphur	1363		Copra
1352	170	Titanium powder, wetted with not less than 25% water	1364		Cotton waste, oily
1353	133	Fabrics impregnated with weakly	1365	133	Cotton
		nitrated Nitrocellulose, n.o.s.	1365	133	Cotton, wet
1353	133	Fibers impregnated with weakly	1366	135	Diethylzinc
1252	111	nitrated Nitrocellulose, n.o.s.	1369	135	p-Nitrosodimethylaniline
1353	133	Fibres impregnated with weakly nitrated Nitrocellulose, n.o.s.	1370	135	Dimethylzinc
1353	133	Toe puffs, nitrocellulose base	1372	133	Fiber, animal or vegetable, n.o.s., burnt, wet or damp
1354	113	Trinitrobenzene, wetted with not	1372	133	Fibers
		less than 30% water	_		Fabrics, animal, synthetic or
1355	113	Trinitrobenzoic acid, wetted with not less than 30% water			vegetable, n.o.s., with oil
1356	113	TNT, wetted with not less than 30% water			Fiber, animal, synthetic or vegetable, n.o.s., with oil
1356	113	Trinitrotoluene, wetted with not less than 30% water	1373	133	Fibres, animal, synthetic or vegetable, n.o.s., with oil
		1033 tilali 3070 Watel	1374	133	Fish meal, unstabilized

ID No.	Guid No.		ID No.	Gui No	
1374	133	Fish meal containing less than	1384	135	Sodium hydrosulfite
		6% or more than 12% water	1384	135	Sodium hydrosulphite
1374	133	Fish scrap, unstabilized	1385	135	Sodium sulfide, anhydrous
1374	133	Fish scrap containing less than 6% or more than 12% water	1385	135	Sodium sulfide, with less than 30% water of crystallization
1376	135	Iron oxide, spent	1385	135	Sodium sulphide, anhydrous
1376	135	Iron sponge, spent	1385	135	Sodium sulphide, with less than
1378	170	Metal catalyst, wetted			30% water of crystallization
1379	133	Paper, unsaturated oil treated	1386	135	Seed cake, with more than 1.5%
1380	135	Pentaborane			oil and not more than 11% moisture
1381	136	Phosphorus, white, dry or under water or in solution	1389	138	Alkali metal amalgam
1381	136	Phosphorus, yellow, dry or under	1389	138	Alkali metal amalgam, liquid
		water or in solution	1389	138	Alkali metal amalgam, solid
1381	136	White phosphorus, dry	1390	139	Alkali metal amides
1381	136	White phosphorus, in solution	1391	138	Alkali metal dispersion
1381	136	White phosphorus, under water	1391	138	Alkaline earth metal dispersion
1381	136	Yellow phosphorus, dry	1392	138	Alkaline earth metal amalgam
1381	136	Yellow phosphorus, in solution	1393	138	Alkaline earth metal alloy, n.o.s
1381	136	Yellow phosphorus, under water	1394	138	Aluminum carbide
1382	135	Potassium sulfide, anhydrous	1395	139	Aluminum ferrosilicon powder
1382	135	Potassium sulfide, with less than	1396	138	Aluminum powder, uncoated
		30% water of crystallization	1397	139	Aluminum phosphide
1382	135	Potassium sulfide, with less than 30% water of hydration	1398	138	Aluminum silicon powder, uncoated
1382	135	Potassium sulphide, anhydrous	1400	138	Barium
1382	135	Potassium sulphide, with less	1401	138	Calcium
		than 30% water of crystallization	1401	138	Calcium metal, crystalline
1382	135	Potassium sulphide, with less	1402	138	Calcium carbide
1383		than 30% water of hydration Aluminum powder, pyrophoric	1403	138	Calcium cyanamide, with more than 0.1% Calcium carbide
1383		Pyrophoric alloy, n.o.s.	1404	138	Calcium hydride
1383		Pyrophoric metal, n.o.s.	1405	138	Calcium silicide
1384		Sodium dithionite	1406	138	Calcium silicon

ID Guide Name of Material No. No.	ID Guide Name of Material No. No.
1407 138 Caesium	1435 138 Zinc residue
1407 138 Cesium	1435 138 Zinc skimmings
1408 139 Ferrosilicon	1436 138 Zinc dust
1409 138 Hydrides, metal, n.o.s.	1436 138 Zinc powder
1409 138 Metal hydrides, water-reactive,	1437 138 Zirconium hydride
n.o.s.	1438 140 Aluminum nitrate
1410 138 Lithium aluminum hydride	1439 141 Ammonium dichromate
1411 138 Lithium aluminum hydride, ethereal	1442 143 Ammonium perchlorate
1412 139 Lithium amide	1444 140 Ammonium persulfate
1413 138 Lithium borohydride	1444 140 Ammonium persulphate
1414 138 Lithium hydride	1445 141 Barium chlorate
1415 138 Lithium	1445 141 Barium chlorate, wet
1417 138 Lithium silicon	1446 141 Barium nitrate
1418 138 Magnesium alloys powder	1447 141 Barium perchlorate
1418 138 Magnesium powder	1448 141 Barium permanganate
1419 139 Magnesium aluminum phosphide	1449 141 Barium peroxide
1420 138 Potassium, metal alloys	1450 141 Bromates, inorganic, n.o.s.
1420 138 Potassium, metal liquid alloy	1451 140 Caesium nitrate
1421 138 Alkali metal alloy, liquid, n.o.s.	1451 140 Cesium nitrate
1422 138 Potassium sodium alloys	1452 140 Calcium chlorate
1422 138 Sodium potassium alloys	1453 140 Calcium chlorite
1423 138 Rubidium	1454 140 Calcium nitrate
1423 138 Rubidium metal	1455 140 Calcium perchlorate
1426 138 Sodium borohydride	1456 140 Calcium permanganate
1427 138 Sodium hydride	1457 140 Calcium peroxide
1428 138 Sodium	1458 140 Borate and Chlorate mixtures
1431 138 Sodium methylate	1458 140 Chlorate and Borate mixtures
1431 138 Sodium methylate, dry	1459 140 Chlorate and Magnesium chloride mixture
1432 139 Sodium phosphide	1459 140 Magnesium chloride and
1433 139 Stannic phosphides	Chlorate mixture
1435 138 Zinc ashes	1461 140 Chlorate, n.o.s., wet
1435 138 Zinc dross	1461 140 Chlorates, inorganic, n.o.s.

	Guid No.	le Name of Material	ID No.	Guio No	
1462	143	Chlorites, inorganic, n.o.s.	1481	140	Perchlorates, inorganic, n.o.s.
1463	141	Chromic acid, solid	1482	140	Permanganate, n.o.s.
1463	141	Chromic acid mixture, dry	1482	140	Permanganates, inorganic,
1463	141	Chromium trioxide, anhydrous			n.o.s.
1465	140	Didymium nitrate			Peroxides, inorganic, n.o.s.
1466	140	Ferric nitrate			Potassium bromate
1467	143	Guanidine nitrate			Potassium chlorate
1469	141	Lead nitrate	1486	140	Potassium nitrate
1470		'	1487	140	Potassium nitrate and Sodium nitrite mixture
1470		Lead perchlorate, solid Lead perchlorate, solution	1487	140	Sodium nitrite and Potassium nitrate mixtures
1471	140	Lithium hypochlorite, dry	1487	140	Sodium nitrite mixture
1471	140	Lithium hypochlorite mixture	1488	140	Potassium nitrite
1471	140	Lithium hypochlorite mixtures, dry	1489		Potassium perchlorate
1472	1/12	Lithium peroxide	1490	140	Potassium permanganate
1472		Magnesium bromate	1491	144	Potassium peroxide
1473		Magnesium nitrate	1492	140	Potassium persulfate
1474		Magnesium perchlorate	1492	140	Potassium persulphate
1475		Magnesium peroxide	1493	140	Silver nitrate
1477		Ammonium sulfate nitrate	1494	141	Sodium bromate
1477		Ammonium sulphate nitrate	1495	140	Sodium chlorate
1477		Nitrate, n.o.s.	1496	143	Sodium chlorite
	140	Nitrates, inorganic, n.o.s.	1498	140	Sodium nitrate
1477		Compound, tree or weed killing,	1499	140	Potassium nitrate and Sodium nitrate mixture
1479	140	solid (oxidizer) Cosmetics, n.o.s.	1499	140	Sodium nitrate and Potassium nitrate mixture
1479	140	Drugs, n.o.s.	1500	140	Sodium nitrite
1479	140	Medicines, oxidizing substances, solid, n.o.s.			Sodium perchlorate
1479	140	Oxidizing solid, n.o.s.	1503	140	Sodium permanganate
1477		Oxidizing substances, solid,	1504	144	Sodium peroxide
14/7	170	n.o.s.	1505	140	Sodium persulfate
1481	140	Perchlorate, n.o.s.	1505	140	Sodium persulphate

ID No.	Guid No.	de Name of Material	ID No.	Guid No.	
1506	143	Strontium chlorate	1550	151	Antimony lactate
1506	143	Strontium chlorate, solid	1551	151	Antimony potassium tartrate
1506	143	Strontium chlorate, solution	1553	154	Arsenic acid, liquid
1507	140	Strontium nitrate	1554	154	Arsenic acid, solid
1508	140	Strontium perchlorate	1555	151	Arsenic bromide
1509	143	Strontium peroxide	1556	152	Arsenic compound, liquid, n.o.s.
1510	143	Tetranitromethane	1556	152	1 ' 1 '
1511	140	Urea hydrogen peroxide			n.o.s., inorganic
1511	140	Urea peroxide			MD
1512	140	Zinc ammonium nitrite	<mark>1556</mark>	152	Methyldichloroarsine
1513	140	Zinc chlorate	<mark>1556</mark>		PD
1514	140	Zinc nitrate			Phenyldichloroarsine
1515	140	Zinc permanganate			Arsenic compound, solid, n.o.s.
		Zinc peroxide	1557	152	Arsenic compound, solid, n.o.s., inorganic
1517	113	Zirconium picramate, wetted with not less than 20% water	1557	152	Arsenic iodide, solid
1541	155	Acetone cyanohydrin, stabilized	1557	152	Arsenic sulfide
1544		Alkaloids, solid, n.o.s.	1557	152	Arsenic sulphide
		(poisonous)	1557	152	Arsenic trisulfide
1544	151	·	1557	152	Arsenic trisulphide
		(poisonous)	1558	152	Arsenic
		Allyl isothiocyanate, inhibited	1559	151	Arsenic pentoxide
		Allyl isothiocyanate, stabilized	1560	157	Arsenic chloride
	151		<mark>1560</mark>	157	Arsenic trichloride
		Aniline	1561	151	Arsenic trioxide
		Aniline hydrochloride	1562	152	Arsenical dust
1549	157	Antimony compound, inorganic, n.o.s.	1564		Barium compound, n.o.s.
1549	157	Antimony compound, inorganic, solid, n.o.s.	1565 1566		Barium cyanide Beryllium chloride
1549	157	Antimony tribromide, solid	1566	154	Beryllium compound, n.o.s.
1549		Antimony tribromide, solution	1566	154	Beryllium fluoride
1549	157	Antimony trifluoride, solid	1567	134	Beryllium powder
			1569		Bromoacetone

ID No.	Guid No.		ID No.		de Name of Material
1570	152	Brucine	1585	151	Copper acetoarsenite
1571	113	Barium azide, wetted with not	1586	151	Copper arsenite
		less than 50% water	1587	151	Copper cyanide
1572	151	Cacodylic acid	1588	157	Cyanides, inorganic, n.o.s.
1573	151	Calcium arsenate	1588	157	Cyanides, inorganic, solid, n.o.s.
1574	151	Calcium arsenate and Calcium arsenite mixture, solid	1589		CK
1574	151	Calcium arsenite, solid	1589		, ,
1574	151	Calcium arsenite and Calcium arsenate mixture, solid	1590 1590		Dichloroanilines Dichloroanilines, liquid
1575	157	Calcium cyanide	1590	153	Dichloroanilines, solid
1577	153	Chlorodinitrobenzenes	1591	152	o-Dichlorobenzene
1577	153	Dinitrochlorobenzene	1592	152	p-Dichlorobenzene
1578	152	Chloronitrobenzenes	1593	160	Dichloromethane
1578	152	Chloronitrobenzenes, liquid	1593	160	Methylene chloride
1578	152	Chloronitrobenzenes, solid	1594	152	Diethyl sulfate
1578	152	Nitrochlorobenzenes, liquid	1594	152	Diethyl sulphate
1578	152	Nitrochlorobenzenes, solid	1595	156	Dimethyl sulfate
1579	153	4-Chloro-o-toluidine	1595	156	Dimethyl sulphate
		hydrochloride	1596	153	Dinitroanilines
	154	Chloropicrin	1597	152	Dinitrobenzenes
1581	123	Chloropicrin and Methyl bromide mixture	1598		
1581	122	Methyl bromide and Chloropicrin	1599		Dinitrophenol, solution
1301	123	mixtures	1600	152	
1581	123	Methyl bromide and more than 2% Chloropicrin mixture,	1601	151	Disinfectant, solid, poisonous, n.o.s.
		liquid	1601	151	Disinfectant, solid, toxic, n.o.s.
1582	119	Chloropicrin and Methyl chloride mixture	1601	151	Disinfectants, solid, n.o.s. (poisonous)
1582	119		1602	151	Dye, liquid, poisonous, n.o.s.
		mixtures	1602	151	Dye, liquid, toxic, n.o.s.
15831583	154 154	Chloropicrin, absorbed Chloropicrin mixture, n.o.s.	1602	151	Dye intermediate, liquid, poisonous, n.o.s.
1584		Cocculus	1602	151	Dye intermediate, liquid, toxic, n.o.s.

ID Gui	de Name of Material		Guio No.	de Name of Material
1603 155	Ethyl bromoacetate	1627	141	Mercurous nitrate
1604 132	Ethylenediamine	1628	151	Mercurous sulfate
1605 154	Ethylene dibromide	1628	151	Mercurous sulphate
1606 151	Ferric arsenate	1629	151	Mercury acetate
1607 151	Ferric arsenite	1630	151	Mercury ammonium chloride
1608 151	Ferrous arsenate	1631	154	Mercury benzoate
1610 159	Halogenated irritating liquid, n.o.s.	1633	151	Mercury bisulfate
1611 151	Hexaethyl tetraphosphate	1633	151	Mercury bisulphate
1611 151	Hexaethyl tetraphosphate, liquid	1634	154	Mercuric bromide
1611 151	Hexaethyl tetraphosphate, solid	1634	154	Mercurous bromide
1612 123	Hexaethyl tetraphosphate and	1634	154	Mercury bromides
1/10 454	compressed gas mixture	1636	154	Mercuric cyanide
1613 154	Hydrocyanic acid, aqueous solution, with less than 5%	1636	154	Mercury cyanide
	Hydrogen cyanide	1637	151	Mercury gluconate
1613 154	Hydrocyanic acid, aqueous	1638	151	Mercury iodide
	solution, with not more than 20% Hydrogen cyanide	1639	151	Mercury nucleate
1612 15 1	Hydrogen cyanide, aqueous	1640	151	,
1013 134	solution, with not more than	1641	151	Mercury oxide
	20% Hydrogen cyanide		151	, ,
1614 131	Hydrogen cyanide, anhydrous, stabilized (absorbed)	1642	151	Mercury oxycyanide, desensitized
1614 131	Hydrogen cyanide, stabilized	1643	151	Mercury potassium iodide
	(absorbed)	1644	151	, ,
	Lead acetate		151	
	Lead arsenates	1645	151	'
	Lead arsenites		151	, ,
	Lead cyanide	1645		,
	London purple			Mercury thiocyanate
1622 151	Magnesium arsenate	1647	151	Ethylene dibromide and Methyl bromide mixture, liquid
1623 151	Mercuric arsenate Mercuric chloride	1647	151	
1624 154 1625 141	Mercuric chioride Mercuric nitrate	1017	101	dibromide mixture, liquid
	Mercuric mitrate Mercuric potassium cyanide	1648	131	Acetonitrile
1626 157	mercuric potassium cyamide	1648	131	Methyl cyanide

ID No.	Guio No.	de Name of Material	ID No.	Guid No.	
1649	131	Motor fuel anti-knock compound	1673	153	Phenylenediamines
1649	131	Motor fuel anti-knock mixture	1674	151	Phenylmercuric acetate
1649	131	Tetraethyl lead, liquid	1677	151	Potassium arsenate
1650	153	beta-Naphthylamine	1678	154	Potassium arsenite
1650	153	Naphthylamine (beta)	1679	157	Potassium cuprocyanide
1651	153	Naphthylthiourea	1680	157	Potassium cyanide
1652	153	Naphthylurea	1683	151	Silver arsenite
1653	151	Nickel cyanide	1684	151	Silver cyanide
1654	151	Nicotine	1685	151	Sodium arsenate
1655	151	Nicotine compound, solid, n.o.s.	1686	154	
1655	151	Nicotine preparation, solid, n.o.s.			solution
1656	151	Nicotine hydrochloride	1687		Sodium azide
1656	151	Nicotine hydrochloride, solution	1688		· ·
1657	151	Nicotine salicylate	1689		•
1658	151	Nicotine sulfate, solid	1690		
1658	151	Nicotine sulfate, solution			Sodium fluoride, solid
1658	151	Nicotine sulphate, solid	1690		•
1658	151	Nicotine sulphate, solution	1691		
1659	151	Nicotine tartrate	1692	151	Strychnine
<mark>1660</mark>	124	Nitric oxide	1692	151	Strychnine salts
1660	124	Nitric oxide, compressed	1693	159	Irritating agent, n.o.s.
1661	153	Nitroanilines	1693	159	ORM-A, n.o.s.
1662	152	Nitrobenzene	1693	159	Tear gas devices
1663	153	Nitrophenols	1693	159	Tear gas substance, liquid, n.o.s.
1664	152	Nitrotoluenes	1693	159	Tear gas substance, solid, n.o.s.
1664	152	Nitrotoluenes, liquid	1694	159	Bromobenzyl cyanides
1664	152	Nitrotoluenes, solid	1694	159	CA
1665	152	Nitroxylenes	1695	131	Chloroacetone, stabilized
1665	152	Nitroxylol	1697		Chloroacetophenone
1669	151	Pentachloroethane	1697	153	Chloroacetophenone, liquid
1670	157	Perchloromethyl mercaptan	1697		Chloroacetophenone, solid
1671	153	Phenol, solid	1697	153	CN
			1698		

	Guid No.			Guio No.	
1698	154	Diphenylamine chloroarsine	1707	151	Thallium sulfate, solid
1698	154	DM	1707	151	Thallium sulphate, solid
1699	151	DA	1708	153	Toluidines
1699	151	Diphenylchloroarsine	1708	153	Toluidines, liquid
1699	151	Diphenylchloroarsine, liquid	1708	153	Toluidines, solid
1699	151	Diphenylchloroarsine, solid	1709	151	2,4-Toluenediamine
1700	159	Tear gas candles	1709	151	Toluenediamine
1700	159	Tear gas grenades	1709	151	2,4-Toluylenediamine
1701	152	Xylyl bromide	1710	160	Trichloroethylene
1702	151	1,1,2,2-Tetrachloroethane	1711	153	Xylidines
1702	151	Tetrachloroethane	1712	151	Zinc arsenate
1703	123	Tetraethyl dithiopyrophosphate and gases, in solution	1712	151	Zinc arsenate and Zinc arsenite mixture
1703	123	Tetraethyl dithiopyrophosphate	1712	151	Zinc arsenite
1703	123	and gases, mixtures Tetraethyl dithiopyrophosphate	1712	151	Zinc arsenite and Zinc arsenate mixture
		and gases, mixtures, or in solution (LC50 more than 200	1713	151	Zinc cyanide
		ppm but not more than 5000	1714		Zinc phosphide
		ppm)	1715		Acetic anhydride
1703	123	Tetraethyl dithiopyrophosphate and gases, mixtures, or in	1716		Acetyl bromide
		solution (LC50 not more than		132	
		200 ppm)	1718	153	Acid butyl phosphate
1704	153	Tetraethyl dithiopyrophosphate	1718	153	Butyl acid phosphate
1704	153	Tetraethyl dithiopyrophosphate,	1719	154	Alkaline liquid, n.o.s.
4705	100	mixture, dry or liquid	1719	154	•
1/05	123	Tetraethyl pyrophosphate and compressed gas mixtures	<mark>1722</mark>		Allyl chlorocarbonate
1705	123	Tetraethyl pyrophosphate and	1722		Allyl chloroformate
. 700	123	compressed gas mixtures	1723	132	Allyl iodide
		(LC50 more than 200 ppm but	1724		Allyltrichlorosilane, stabilized
1705	400	not more than 5000 ppm)	1725	137	Aluminum bromide, anhydrous
1705	123	Tetraethyl pyrophosphate and compressed gas mixtures	1726	137	Aluminum chloride, anhydrous
		(LC50 not more than 200 ppm)	1727	154	Ammonium bifluoride, solid
1707	151	Thallium compound, n.o.s.	1727	154	Ammonium hydrogendifluoride, solid

ID No.	Guid No.		ID No.	Guio No	ar manne en manena.
1727	154	Ammonium hydrogen fluoride,	1750	153	Chloroacetic acid, solution
1700	455	solid	1751	153	Chloroacetic acid, solid
1728	155	Amyltrichlorosilane	1752	156	Chloroacetyl chloride
1729		Anisoyl chloride	1753	156	Chlorophenyltrichlorosilane
1730		Antimony pentachloride, liquid	1754	137	Chlorosulfonic acid
1731		Antimony pentachloride, solution	1754	137	Chlorosulfonic acid and Sulfur trioxide mixture
1732		Antimony pentafluoride	1754	137	Chlorosulphonic acid
1733		,	1754	137	·
1733		Antimony trichloride, liquid			Sulphur trioxide mixture
1733		Antimony trichloride, solid	1754	137	Sulfur trioxide and Chlorosulfonic acid mixture
1733		Antimony trichloride, solution	1754	127	
		Benzoyl chloride	1734	137	Chlorosulphonic acid mixture
1737		Benzyl bromide	1755	154	Chromic acid, solution
	156	Benzyl chloride			Chromic fluoride, solid
1739		Benzyl chloroformate	1757	154	Chromic fluoride, solution
1740		Bifluorides, n.o.s.			Chromium oxychloride
1740		Hydrogendifluorides, n.o.s.			Corrosive solid, n.o.s.
1741		Boron trichloride	1759	154	Cosmetics, solid, n.o.s.
1742	157	Boron trifluoride acetic acid complex	1759	154	Drugs, solid, n.o.s.
1743	157		1759	154	Ferrous chloride, solid
		complex	1759	154	Medicines, corrosive, solid, n.o.s.
1744	154	Bromine	1759	154	Stannous chloride, solid
1744	154	Bromine, solution	1760	154	Acid, liquid, n.o.s.
1745	144	Bromine pentafluoride	1760	154	Aluminum phosphate, solution
1746	144	Bromine trifluoride	1760	154	Aluminum sulfate, solution
1747	155	Butyltrichlorosilane	1760	154	Aluminum sulphate, solution
1748	140	Calcium hypochlorite, dry	1760	154	2-(2-Aminoethoxy)ethanol
1748	140	Calcium hypochlorite mixture,	1760	154	Aminopropyldiethanolamine
		dry, with more than 39% available Chlorine (8.8%	1760	154	N-Aminopropylmorpholine
		available Chlorine (8.8% available Oxygen)	1760	154	Chemical kit
1749	124	Chlorine trifluoride	1760	154	Compound, rust preventing
1750		Chloroacetic acid, liquid			(corrosive)
		2.4 - 4.5 - 5			Page 4

ID Gu		ID No.		de Name of Material
1760 154	Compound, rust removing (corrosive)	1768	154	Difluorophosphoric acid, anhydrous
1760 154		1769	156	Diphenyldichlorosilane
17/0 454	liquid (corrosive)	1770	153	Diphenylmethyl bromide
1760 154	Compound, vulcanizing, liquid (corrosive)	1771	156	Dodecyltrichlorosilane
1760 154	Compounds, cleaning, liquid (corrosive)		157 157	Ferric chloride Ferric chloride, anhydrous
1760 154	Corrosive liquid, n.o.s.	1774	154	3 ,
1760 154	Cosmetics, liquid, n.o.s.			corrosive liquid
1760 154	2,2-Dichloropropionic acid			Fluoboric acid
1760 154	Drugs, liquid, n.o.s.			Fluoroboric acid
1760 154	Ferrous chloride, solution	1//6	154	Fluorophosphoric acid, anhydrous
1760 154	Flame retardant compound, liquid (corrosive)	<mark>1777</mark>	137	·
1760 15 4	Hexanoic acid	<mark>1777</mark>	137	Fluorosulphonic acid
	Isopentanoic acid	1778	154	Fluorosilicic acid
	Medicines, corrosive, liquid, n.o.s.	1778	154	Fluosilicic acid
	Morpholine, aqueous mixture	1778	154	Hydrofluorosilicic acid
	Nitric acid, 40% or less	1778	154	Hydrofluosilicic acid
	ORM-B, n.o.s.	1779	153	Formic acid
	Paint (corrosive)	1780	156	,
	Paint related material		156	,
	(corrosive)		154	1 1
1760 154	Textile treating compound or mixture, liquid (corrosive)	1783		Hexamethylenediamine, solution
1760 154	Titanium sulfate, solution		156	, , , , , , , , ,
1760 154	Titanium sulphate, solution	1786	157	Hydrofluoric acid and Sulfuric acid mixture
1761 154	Cupriethylenediamine, solution	1786	157	Hydrofluoric acid and Sulphuric
	Cyclohexenyltrichlorosilane	1700	107	acid mixture
1763 156	,	1786	157	Sulfuric acid and Hydrofluoric
1764 153				acid mixtures
	Dichloroacetyl chloride	1786	157	Sulphuric acid and Hydrofluoric acid mixtures
1766 156	. ,	1707	1 E <i>1</i>	Acid mixtures Hydriodic acid
1767 155	Diethyldichlorosilane	1787	134	rryuriouic aciu

ID No.	Guid No.	de Name of Material	ID No.		de Name of Material
1787	154	Hydriodic acid, solution	1805	154	Phosphoric acid
1788	154	Hydrobromic acid	<mark>1806</mark>	137	Phosphorus pentachloride
1788	154	Hydrobromic acid, solution	1807	137	Phosphoric anhydride
1789	157	Compound, cleaning liquid	1807	137	Phosphorus pentoxide
		(containing Hydrochloric (muriatic) acid)	1808	137	Phosphorus tribromide
1789	157	Hydrochloric acid	1809	137	Phosphorus trichloride
1789	157	Hydrochloric acid, mixture	1810	137	Phosphorus oxychloride
1789	157	Hydrochloric acid, solution	1811	154	Potassium bifluoride
1789		Muriatic acid	1811	154	Potassium hydrogendifluoride
1790		Compound, cleaning liquid (containing Hydrofluoric acid)	1811	154	Potassium hydrogen fluoride, solution
1790	157	Etching acid, liquid, n.o.s.	1812	154	Potassium fluoride
1790	157	Hydrofluoric acid	1813	154	Battery
	157	Hydrofluoric acid, solution	1813	154	Caustic potash, dry, solid
1791	154	Hypochlorite solution	1813	154	Potassium hydroxide, dry, solid
1791		Hypochlorite solution, with more	1813	154	Potassium hydroxide, flake
1771	154	than 5% available Chlorine	1813	154	Potassium hydroxide, solid
1792	157	lodine monochloride	1814	154	Caustic potash, liquid
1793	153	Isopropyl acid phosphate	1814	154	Caustic potash, solution
1794	154	Lead sulfate, with more than 3%	1814	154	Potassium hydroxide, solution
		free acid	1815	132	Propionyl chloride
1794	154	Lead sulphate, with more than	1816	155	Propyltrichlorosilane
1704	157	3% free acid	1817	137	Pyrosulfuryl chloride
1796		Nitrating acid mixture	1817	137	Pyrosulphuryl chloride
1798 1798	157	Aqua regia Nitrohydrochloric acid	1818	157	Silicon tetrachloride
1790		· ·	1819	154	Sodium aluminate, solution
		Nonyltrichlorosilane Ostadosyltrichlorosilane	1821	154	Sodium bisulfate, solid
1800		Octadecyltrichlorosilane	1821	154	Sodium bisulphate, solid
1801	156	Octyltrichlorosilane Derablaria acid, with not mare	1821	154	Sodium hydrogen sulfate, solid
1802	140	Perchloric acid, with not more than 50% acid	1821	154	Sodium hydrogen sulphate, solid
1803	153	Phenolsulfonic acid, liquid	1823	154	Caustic soda, bead
1803		Phenolsulphonic acid, liquid	1823	154	Caustic soda, flake
1804		Phenyltrichlorosilane	1823	154	Caustic soda, granular
		•			Page 15

ID No.	Guid No.		ID No.	Guid No.	
1823 1823		Caustic soda, solid Sodium hydroxide, dry	1831	137	Oleum, with not less than 30% free Sulfur trioxide
1823	154	Sodium hydroxide, bead	1831	137	Oleum, with not less than 30% free Sulphur trioxide
		Sodium hydroxide, flake	1831	137	Sulfuric acid, fuming
1823 1823		, ,	1831	137	Sulfuric acid, fuming, with less than 30% free Sulfur trioxide
	154 154 157	Caustic soda, solution Sodium hydroxide, solution Sodium monoxide	1831	137	Sulfuric acid, fuming, with not less than 30% free Sulfur trioxide
1826			1831	137	Sulphuric acid, fuming
1826	157	Nitrating acid mixture, spent	1831	137	Sulphuric acid, fuming, with less than 30% free Sulphur trioxide
1827 1827	137	Tin tetrachloride	1831	137	Sulphuric acid, fuming, with not less than 30% free Sulphur trioxide
	137		1000	107	
	137	Sulphur chlorides	1832		Sulfuric acid, spent
1829			1832		Sulphuric acid, spent
		Sulfur trioxide, inhibited	1833		Sulfurous acid
		Sulfur trioxide, stabilized	1833		Sulphurous acid
	137	Sulfur trioxide, uninhibited	1834	137	Sulfuryl chloride
1829		· ·	1834	137	Sulphuryl chloride
1829	137	Sulphur trioxide, inhibited	1835	133	Tetramethylammonium hydroxide
1829		Sulphur trioxide, stabilized	1836	137	Thionyl chloride
1829	137	Sulphur trioxide, uninhibited	1837	157	Thiophosphoryl chloride
1830		Sulfuric acid	<mark>1838</mark>	137	Titanium tetrachloride
1830	137	Sulfuric acid, with more than 51% acid	1839	153	Trichloroacetic acid
1830	137	Sulphuric acid	1840	154	Zinc chloride, solution
1830	137	•	1841	171	Acetaldehyde ammonia
1001	127	51% acid		141	
1831			1845		Carbon dioxide, solid
1831	13/	Oleum, with less than 30% free Sulfur trioxide	1845 1846		Dry ice Carbon tetrachloride
1831	137	Oleum, with less than 30% free Sulphur trioxide	.510	.5.	220

ID No.	Guic No.	de Name of Material	ID No.	Guio No	
1847	153	Potassium sulfide, hydrated,	1867	133	Cigarettes, self-lighting
		with not less than 30% water	1868	134	Decaborane
1017	152	of crystallization	1869	138	Magnesium
1047	133	Potassium sulfide, hydrated, with not less than 30% water of hydration	1869	138	Magnesium, in pellets, turnings or ribbons
1847	153	Potassium sulphide, hydrated, with not less than 30% water of crystallization	1869	138	Magnesium alloys, with more than 50% Magnesium, in pellets, turnings or ribbons
1847	153	Potassium sulphide, hydrated,	1869	138	Magnesium scrap
		with not less than 30% water	1870	138	Potassium borohydride
		of hydration	1871	170	Titanium hydride
		Propionic acid	1872	141	Lead dioxide
1849	153	Sodium sulfide, hydrated, with not less than 30% water	1872	141	Lead peroxide
1849	153	Sodium sulphide, hydrated, with not less than 30% water	1873	143	Perchloric acid, with more than 50% but not more than 72% acid
1851	151	Medicine, liquid, poisonous, n.o.s.	1884	157	
1851	151	Medicine, liquid, toxic, n.o.s.			Benzidine
1854	135	Barium alloys, pyrophoric	1886	156	Benzylidene chloride
1855	135	Calcium, metal and alloys, pyrophoric	1887	160	Bromochloromethane
1855	135	Calcium, pyrophoric	1888		
1855	135	Calcium alloys, pyrophoric	1889		Cyanogen bromide
1856	133	Rags, oily	1891		Ethyl bromide
1858	126	Hexafluoropropylene	1892		ED
1858	126	Refrigerant gas R-1216	1892		•
1859	125	Silicon tetrafluoride	1894		Phenylmercuric hydroxide
1859	125	Silicon tetrafluoride,	1895		Phenylmercuric nitrate
		compressed	1897		Perchloroethylene
		Vinyl fluoride, inhibited	1897		Tetrachloroethylene
1862	129	Ethyl crotonate			Acetyl iodide
1863	128	Fuel, aviation, turbine engine	1902		
1864	128	Gas drips, hydrocarbon	1902		Diisooctyl acid phosphate
1865	131	n-Propyl nitrate	1903	153	•
1866	127	Resin solution			n.o.s.

ID No.		de Name of Material	ID No.	Guid No.	
1903	153	Disinfectants, corrosive, liquid,	<mark>1923</mark>	135	Calcium hydrosulphite
1005	154	n.o.s.	1928	135	Methyl magnesium bromide in
		Selenic acid	1929	125	Ethyl ether Potassium dithionite
		Acid, sludge Sludge acid		135	
		Soda lime, with more than 4%	1929		Potassium hydrosulfite Potassium hydrosulphite
1907	134	Sodium hydroxide	1929		Zinc dithionite
1908	154	Chlorite solution	1931		Zinc hydrosulfite
1908	154	Chlorite solution, with more than	1931		Zinc hydrosulphite
		5% available Chlorine	1932		Zirconium scrap
1908	154	Sodium chlorite, solution, with more than 5% available Chlorine	1935		Cyanide solution, n.o.s.
1910	157	Calcium oxide	1938		Bromoacetic acid
		Diborane	1938	156	Bromoacetic acid, solid
		Diborane, compressed	1938	156	Bromoacetic acid, solution
		Diborane mixtures	<mark>1939</mark>	137	Phosphorus oxybromide
1912	115	Methyl chloride and Methylene	1939	137	Phosphorus oxybromide, solid
		chloride mixture	1940	153	Thioglycolic acid
1912	115	Methylene chloride and Methyl	1941	171	Dibromodifluoromethane
1913	120	chloride mixture Neon, refrigerated liquid	1942	140	Ammonium nitrate, with not more than 0.2% combustible
1014	120	(cryogenic liquid) Butyl propionates	1040	140	substances
		Cyclohexanone	1942	140	Ammonium nitrate, with organic coating
		2,2'-Dichlorodiethyl ether	1944	133	Matches, safety
		Dichloroethyl ether	1945	133	Matches, wax "vesta"
		Ethyl acrylate, inhibited	1950	126	Aerosol dispensers
		Cumene	1950	126	Aerosols
1918	130	Isopropylbenzene	1951	120	Argon, refrigerated liquid
		Methyl acrylate, inhibited	46-		(cryogenic liquid)
1920	128	Nonanes	1952	126	Carbon dioxide and Ethylene oxide mixtures, with not more
1921	131P	Propyleneimine, inhibited			than 6% Ethylene oxide
	132	Pyrrolidine	1952	126	Carbon dioxide and Ethylene
1922	132		1702 120		
1922 1923		Calcium dithionite			oxide mixtures, with not more than 9% Ethylene oxide

ID Guide Name of Material No. No.	ID Guide Name of Material No. No.
1952 126 Ethylene oxide and Carbon dioxide mixtures, with not more than 6% Ethylene oxide	1953 119 Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)
1952 126 Ethylene oxide and Carbon dioxide mixtures, with not more than 9% Ethylene oxide	1953 119 Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)
1953 119 Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)	1953 119 Compressed gas, toxic, flammable, n.o.s.
1953 119 Compressed gas, flammable, poisonous, n.o.s. (Inhalation	1953 119 Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)
Hazard Zone B) 1953 119 Compressed gas, flammable, poisonous, n.o.s. (Inhalation	1953 119 Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)
Hazard Zone C) 1953 119 Compressed gas, flammable, poisonous, n.o.s. (Inhalation	1953 119 Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)
Hazard Zone D) 1953 119 Compressed gas, flammable, toxic, n.o.s. (Inhalation	1953 119 Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)
Hazard Zone A) 1953 119 Compressed gas, flammable,	1953 119 Liquefied gas, flammable, poisonous, n.o.s.
toxic, n.o.s. (Inhalation Hazard Zone B) 1953 119 Compressed gas, flammable,	1953 119 Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)
toxic, n.o.s. (Inhalation Hazard Zone C)	1953 119 Liquefied gas, flammable, poisonous, n.o.s. (Inhalation
1953 119 Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	Hazard Zone B) 1953 119 Liquefied gas, flammable, poisonous, n.o.s. (Inhalation
1953 119 Compressed gas, poisonous, flammable, n.o.s.	Hazard Zone C) 1953 119 Liquefied gas, flammable,
1953 119 Compressed gas, poisonous, flammable, n.o.s. (Inhalation	poisonous, n.o.s. (Inhalation Hazard Zone D)
Hazard Zone A) 1953 119 Compressed gas, poisonous,	1953 119 Liquefied gas, flammable, toxic, n.o.s.
flammable, n.o.s. (Inhalation Hazard Zone B)	1953 119 Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)

ID Guid			uide Name of Material lo.
1953 119	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)	1955 1 2	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone D)
1953 119	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)	1955 12	1 3
1953 119	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	1955 1 2	23 Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone B)
1953 119	Poisonous gas, flammable, n.o.s.	1955 1 2	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone C)
1953 119	Poisonous liquid, flammable, n.o.s.	1955 1 2	
1954 115	Compressed gas, flammable, n.o.s.		(Inhalation Hazard Zone D)
1954 115	Dispersant gas, n.o.s. (flammable)	1955 1 2	7 3 11
1954 115	Insecticide gas, flammable, n.o.s.	1955 1 2	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)
1954 115	Liquefied gas, flammable, n.o.s.	1955 1 2	· · · · · · · · · · · · · · · · · · ·
1954 115	Refrigerant gas, n.o.s.		(Inhalation Hazard Zone B)
	(flammable)	1955 1 2	23 Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)
1954 115	Refrigerating machines, containing flammable, liquefied gas	1955 1 2	
1954 115	Refrigerating machines,	1955 1 2	
	containing flammable, non- poisonous, non-corrosive, liquefied gas	1955 1 2	23 Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)
1955 123	Chloropicrin and non-flammable, non-liquefied compressed gas	1955 1 2	(Inhalation Hazard Zone B)
1055	mixture	1955 1 2	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)
1955 123	Compressed gas, poisonous, n.o.s.	1955 1 2	
1955 123	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	1955 1 2	23 Methyl bromide and nonflammable, nonliquefied compressed gas mixture
1955 123	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	1955 1 2	•
1955 123	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	1955 12	23 Organic phosphate mixed with compressed gas

ID No.	Guic No.	le Name of Material	ID No.	Guid No.	
1955	123	Organic phosphorus compound mixed with compressed gas	1966	115	Hydrogen, refrigerated liquid (cryogenic liquid)
1955 1955	123	Poisonous gas, n.o.s. Poisonous liquid, n.o.s.	1967	123	Insecticide, liquefied gas, containing Poison A or Poison B material
1956	126	Accumulators, pressurized, pneumatic or hydraulic	1967	123	Insecticide gas, poisonous, n.o.s.
1956	126	Compressed gas, n.o.s.	1967	123	Insecticide gas, toxic, n.o.s.
19561956		Hexafluoropropylene oxide Liquefied gas, n.o.s.			Parathion and compressed gas mixture
1956	126	Water pump system	1968	126	Insecticide, liquefied gas
1957	115	Deuterium			Insecticide gas, n.o.s.
1957	115	Deuterium, compressed	1969		Isobutane
1958	126	1,2-Dichloro-1,1,2,2- tetrafluoroethane	1969		Isobutane mixture
1958	126	Dichlorotetrafluoroethane	1970	120	Krypton, refrigerated liquid (cryogenic liquid)
1958	126	Refrigerant gas R-114	1971	115	Methane
1959	116P	1,1-Difluoroethylene	1971	115	Methane, compressed
1959	116P	Refrigerant gas R-1132a	1971	115	Natural gas, compressed
1960	115	Engine starting fluid	1972	115	Liquefied natural gas (cryogenic
1961	115	Ethane, refrigerated liquid			liquid)
1961	115	Ethane-Propane mixture, refrigerated liquid	1972 1972		LNG (cryogenic liquid) Methane, refrigerated liquid
1961	115	Propane-Ethane mixture, refrigerated liquid			(cryogenic liquid)
1962	116P	Ethylene	1972	110	Natural gas, refrigerated liquid (cryogenic liquid)
		Ethylene, compressed	1973	126	Chlorodifluoromethane and
1963		Helium, refrigerated liquid (cryogenic liquid)			Chloropentafluoroethane mixture
1964	115	Hydrocarbon gas, compressed, n.o.s.	1973	126	Chloropentafluoroethane and Chlorodifluoromethane mixture
1964	115	Hydrocarbon gas mixture, compressed, n.o.s.	1973	126	Refrigerant gas R-502
1965	115	Hydrocarbon gas, liquefied, n.o.s.	1974	126	Bromochlorodifluoromethane
1965	115	Hydrocarbon gas mixture,	1974 1974		Chlorodifluorobromomethane
		liquefied, n.o.s.	19/4	120	Refrigerant gas R-12B1

ID No.	Guid No.		ID No.	Guid No.	
1975	124	Dinitrogen tetroxide and Nitric oxide mixture	1982	126	Tetrafluoromethane, compressed
1975	124	Nitric oxide and Dinitrogen	1983	126	1-Chloro-2,2,2-trifluoroethane
		tetroxide mixture	1983	126	Chlorotrifluoroethane
1975	124	Nitric oxide and Nitrogen dioxide mixture	1983	126	Refrigerant gas R-133a
1975	124		1984		Refrigerant gas R-23
		tetroxide mixture	1984		Trifluoromethane
1975	124	Nitrogen dioxide and Nitric oxide mixture	1986	131	Alcohols, flammable, poisonous, n.o.s.
1975	124	Nitrogen tetroxide and Nitric		131	Alcohols, flammable, toxic, n.o.s.
		oxide mixture	1986		Alcohols, poisonous, n.o.s.
		Octafluorocyclobutane	1986		Alcohols, toxic, n.o.s.
1976		Refrigerant gas RC-318	1986		Denatured alcohol (toxic)
1977	120	Nitrogen, refrigerated liquid (cryogenic liquid)	1986		Propargyl alcohol
1978	115	Propane	1987		Alcohols, n.o.s.
1978	115	Propane mixture		127	Denatured alcohol
1979	121	Rare gases mixture	1988	131	Aldehydes, flammable, poisonous, n.o.s.
1979	121	Rare gases mixture, compressed	1988	131	Aldehydes, flammable, toxic,
1980	122	Helium-Oxygen mixture			n.o.s.
1980	122	Oxygen and Rare gases mixture		131	Aldehydes, poisonous, n.o.s.
1980	122	Oxygen and Rare gases mixture,	1988		Aldehydes, toxic, n.o.s.
		compressed	1989		Aldehydes, n.o.s.
1980		Rare gases and Oxygen mixture	1989		Benzaldehyde
1980	122	Rare gases and Oxygen mixture, compressed	1990		Benzaldehyde
1981	121	Nitrogen and Rare gases mixture	1991		Chloroprene, inhibited
1981	121	Nitrogen and Rare gases	1992	131	Flammable liquid, poisonous, n.o.s.
		mixture, compressed	1992	131	Flammable liquid, toxic, n.o.s.
1981		Rare gases and Nitrogen mixture	1993		Combustible liquid, n.o.s.
1981	121	Rare gases and Nitrogen mixture, compressed	1993	128	Compound, tree or weed killing, liquid (flammable)
1982	126	Refrigerant gas R-14, compressed	1993	128	Compounds, cleaning, liquid (flammable)
1982	126	Tetrafluoromethane	1993	128	Cosmetics, n.o.s.

1993 128 Diesel fuel 1993 128 Disinfectant, liquid, n.o.s. 1993 128 Drugs, n.o.s. 1993 128 Ethyl nitrate 1993 128 Flammable liquid, n.o.s. 1993 128 Fuel oil 1993 128 Heater for refrigerator car, liquid fuel type 1993 128 Medicines, flammable, liquid, n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt 1999 130 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diamide 2006 135 Plastics, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s.	ID No.		iide Name of Material o.
1993 128 Ethyl nitrate 1993 128 Flammable liquid, n.o.s. 1993 128 Fuel oil 1993 128 Heater for refrigerator car, liquid fuel type 1993 128 Medicines, flammable, liquid, n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s.	2010	138	8 Magnesium hydride
1993 128 Ethyl nitrate 1993 128 Flammable liquid, n.o.s. 1993 128 Fuel oil 1993 128 Heater for refrigerator car, liquid fuel type 1993 128 Medicines, flammable, liquid, n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2004 135 Magnesium diamide 2005 135 Magnesium diamide 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s.	<mark>2011</mark>	139	9 Magnesium phosphide
1993 128 Flammable liquid, n.o.s. 1993 128 Fuel oil 1993 128 Heater for refrigerator car, liquid fuel type 1993 128 Medicines, flammable, liquid, n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt, cutback 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2004 135 Magnesium diamide 2005 135 Magnesium diamide 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s.	2012	139	9 Potassium phosphide
1993 128 Fuel oil 1993 128 Heater for refrigerator car, liquid fuel type 1993 128 Medicines, flammable, liquid, n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt, cutback 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s.	2013	139	9 Strontium phosphide
1993 128 Heater for refrigerator car, liquid fuel type 1993 128 Medicines, flammable, liquid, n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt, cutback 1999 130 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2004 135 Magnesium diamide 2005 135 Magnesium diamide 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s.	2014	140	
fuel type 1993 128 Medicines, flammable, liquid, n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt, cutback 1999 130 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s.			solution, with not less than 20% but not more than 60%
n.o.s. 1993 128 Refrigerating machine 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt, cutback 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry			Hydrogen peroxide (stabilized as necessary)
 1994 131 Iron pentacarbonyl 1999 130 Asphalt 1999 130 Asphalt, cutback 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, water-reactive, n.o.s. 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2015	143	3 Hydrogen peroxide, aqueous solution, stabilized, with more
 1999 130 Asphalt 1999 130 Asphalt, cutback 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 			than 60% Hydrogen peroxide
1999 130 Asphalt, cutback 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry	2015	143	3 Hydrogen peroxide, stabilized
 1999 130 Tars, liquid 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2004 135 Metal aryls, water-reactive, n.o.s. 2005 135 Magnesium diamide 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2016	151	1 Ammunition, poisonous, non-explosive
 2000 133 Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2016	151	•
sheets, tubes, etc., except scrap 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2004 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry	2010		non-explosive
 2001 133 Cobalt naphthenates, powder 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2004 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2017	159	9 Ammunition, tear-producing, non-explosive
 2002 135 Celluloid, scrap 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2017	159	9 Grenade, tear gas
 2003 135 Metal alkyls, n.o.s. 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2018	152	2 Chloroanilines, solid
 2003 135 Metal alkyls, water-reactive, n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2019	152	2 Chloroanilines, liquid
n.o.s. 2003 135 Metal aryls, n.o.s 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry	2020	153	3 Chlorophenols, solid
 2003 135 Metal aryls, water-reactive, n.o.s. 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2020	153	3 Trichlorophenol
 2004 135 Magnesium diamide 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2021	153	3 Chlorophenols, liquid
 2005 135 Magnesium diphenyl 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2022	153	•
 2006 135 Plastic, nitrocellulose-based, spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry 	2022		
spontaneously combustible, n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry			1P 1-Chloro-2,3-epoxypropane
n.o.s. 2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry			1P Epichlorohydrin
2006 135 Plastics, nitrocellulose-based, self-heating, n.o.s. 2008 135 Zirconium powder, dry			1 Mercury compound, liquid, n.o.s.
self-heating, n.o.s. 2008 135 Zirconium powder, dry			1 Mercury compound, solid, n.o.s.
, , , , , , , , , , , , , , , , , , ,	2026		
	2027		
2009 135 Zirconium, dry, finished sheets, strips or coiled wire	2028	153	3 Bombs, smoke, non-explosive, with corrosive liquid, without initiating device

ID No.	Guid No.	de Name of Material		Guid No.	de Name of Material
2029	132	Hydrazine, anhydrous	2049	130	Diethylbenzene
2029	132	Hydrazine, aqueous solutions, with more than 64% Hydrazine	2050	127	Diisobutylene, isomeric compounds
2030	153	Hydrazine, aqueous solution, with not less than 37% but not more than 64% Hydrazine		132 132	2-Dimethylaminoethanol Dimethylethanolamine
2030	153	Hydrazine, aqueous solutions, with not more than 64% Hydrazine	2052 2053 2053	129	Dipentene Methylamyl alcohol Methyl isobutyl carbinol
2030	153	Hydrazine hydrate	2053		M.I.B.C.
		Nitric acid, other than red fuming	2054		Morpholine
2032	157	Nitric acid, fuming	2054	132	Morpholine, aqueous mixture
2032	157	Nitric acid, red fuming	2055	128P	Styrene monomer, inhibited
2033	154	Potassium monoxide	2056	127	Tetrahydrofuran
2034	115	Hydrogen and Methane mixture,	2057	128	Tripropylene
2024	115	compressed Methane and Hydrogen mixture,	2058	129	Valeraldehyde
2034	113	compressed		127	Collodion
2035	115	Refrigerant gas R-143a	2059	127	Nitrocellulose, block, wet, with not less than 25% alcohol
2035	115	1,1,1-Trifluoroethane	2059	127	Nitrocellulose, colloided,
2035 2036		Trifluoroethane, compressed Xenon			granular or flake, wet, with not less than 20% alcohol or solvent
		Xenon, compressed Gas cartridges	2059	127	Nitrocellulose, solution, flammable
2037	115	Receptacles, small, containing gas	2059	127	Nitrocellulose, solution, in a flammable liquid
		Dinitrotoluenes	2067	140	Ammonium nitrate fertilizers
		Dinitrotoluenes, liquid	2068	140	•
		Dinitrotoluenes, solid	20/0	140	with Calcium carbonate
2044		2,2-Dimethylpropane Isobutyl aldehyde	2009	140	Ammonium nitrate fertilizers, with Ammonium sulfate
2045		Isobutyraldehyde	2069	140	Ammonium nitrate fertilizers,
2046		Cymenes			with Ammonium sulphate
2047		Dichloropropenes	2069	140	Ammonium nitrate mixed fertilizers
2048		Dicyclopentadiene			

2070			No.		de Name of Material
	143	Ammonium nitrate fertilizers,	2091	145	tert-Butyl cumyl peroxide
2071	140	with Phosphate or Potash Ammonium nitrate fertilizer, with	2091	145	tert-Butyl isopropyl benzene hydroperoxide
		not more than 0.4% combustible material	2092	147	tert-Butyl hydroperoxide, not more than 80% in Di-tert-butyl
2071	140	Ammonium nitrate fertilizers			peroxide and/or solvent
2072	140	Ammonium nitrate fertilizer, n.o.s.	2093	147	tert-Butyl hydroperoxide
2072	140	Ammonium nitrate fertilizers	2094	147	tert-Butyl hydroperoxide
2073	125	Ammonia, solution, with more	2095	146	tert-Butyl peroxyacetate
		than 35% but not more than 50% Ammonia	2096	146	tert-Butyl peroxyacetate
2074	153P	Acrylamide	2097	146	tert-Butyl peroxybenzoate
		Chloral, anhydrous, inhibited	2098	145	tert-Butyl peroxybenzoate
2076		Cresols	2099	146	tert-Butyl monoperoxymaleate
2077		alpha-Naphthylamine	2102	145	Di-tert-butyl peroxide
2077		Naphthylamine (alpha)	2103	146	tert-Butyl peroxyisopropyl carbonate
2078	156	Toluene diisocyanate	2104	145	tert-Butyl peroxyisononanoate
2079	154	Diethylenetriamine	2104		tert-Butyl peroxy-3,5,5-
2080	145	Acetyl acetone peroxide			trimethylhexanoate
2081	147	Acetyl benzoyl peroxide	2106	146	Di-(tert-butylperoxy)phthalate
2082	148	Acetyl cyclohexanesulfonyl	2107	145	Di-(tert-butylperoxy)phthalate
		peroxide	2108	145	Di-(tert-butylperoxy)phthalate
2082	148	Acetyl cyclohexanesulphonyl peroxide	2110	148	tert-Butyl peroxypivalate
2083	148	Acetyl cyclohexanesulfonyl	2111	146	2,2-Di-(tert-butylperoxy)butane
2003	110	peroxide	2112	145	1,3-Di-(2-tert-butylperoxy-
2083	148	Acetyl cyclohexanesulphonyl peroxide			isopropyl)benzene and 1,4-Di-(2-tert-butylperoxy- isopropyl)benzene mixtures
2084	148	Acetyl peroxide	2112	145	1,4-Di-(2-tert-butylperoxy-
2085	146	Benzoyl peroxide	2112	110	isopropyl)benzene and
2087	146	Benzoyl peroxide			1,3-Di-(2-tert-butylperoxy-
2088	146	Benzoyl peroxide	2112	11/	isopropyl)benzene mixtures
2089	145	Benzoyl peroxide	2113 2114		p-Chlorobenzoyl peroxide
2090	146	Benzoyl peroxide			p-Chlorobenzoyl peroxide
2091	145	tert-Butyl cumene peroxide	2115		p-Chlorobenzoyl peroxide
			2116	14/	Cumene hydroperoxide Page 55

ID Gui No. No		ID No.	Guio No.	
2118 147	· · · · · · · · · · · · · · · · · · ·	2142	148	tert-Butyl peroxyisobutyrate
0110 417	more than 72% in solution	2143	148	
2119 147	Cyclohexanone peroxide, not more than 90%, with not less	2111	140	ethylhexanoate
	than 10% water			tert-Butyl peroxydiethylacetate 1,1-Di-(tert-butylperoxy)-3,3,5-
2120 148	Decanoyl peroxide	2143	140	trimethyl cyclohexane
2121 145	Dicumyl peroxide	2146	145	1,1-Di-(tert-butylperoxy)-3,3,5-
2122 148	Di-(2-ethylhexyl)-			trimethyl cyclohexane
2123 148	peroxydicarbonate Di-(2-ethylhexyl)-	2147	145	1,1-Di-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane
2123 140	peroxydicarbonate	21/10	145	, ,
2124 145	Lauroyl peroxide	2140	143	peroxide
2125 147	p-Menthane hydroperoxide	2149	148	Dibenzyl peroxydicarbonate
2126 147	Methyl isobutyl ketone peroxide	2150	148	Di-(sec-butyl)peroxydicarbonate
2128 148	Isononanoyl peroxide	2151	148	Di-(sec-butyl)peroxydicarbonate
2129 148	Caprylyl peroxide	2152	148	Dicyclohexyl peroxydicarbonate
2129 148	Caprylyl peroxide, solution	2153	148	Dicyclohexyl peroxydicarbonate
2129 148	Octanoyl peroxide	2154	148	Di-(4-tert-butylcyclohexyl)-
2130 148	Pelargonyl peroxide	0455	4.5	peroxydicarbonate
2131 147	Peracetic acid, solution	2155	145	2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexane
2131 147	Peroxyacetic acid, solution	2156	145	2,5-Dimethyl-2,5-di-(tert-
2132 148	Propionyl peroxide			butylperoxy)hexane
2133 148	Isopropyl percarbonate, unstabilized	2157	148	2,5-Dimethyl-2,5-di-(2-ethyl- hexanoylperoxy)hexane
2133 148	Isopropyl peroxydicarbonate	2158	146	
2134 148	Isopropyl peroxydicarbonate			butylperoxy)hexyne-3
2135 146	Succinic acid peroxide	2159	145	
2136 145	Tetralin hydroperoxide			butylperoxy)hexyne-3, with not more than 52% Peroxide in
2137 146	2,4-Dichlorobenzoyl peroxide			inert solid
2138 145		2160	145	1,1,3,3-Tetramethylbutyl
2139 145	2,4-Dichlorobenzoyl peroxide	04/4	440	hydroperoxide
2140 146	n-Butyl-4,4-di-(tert- butylperoxy)valerate	2161		1,1,3,3-Tetramethylbutyl peroxy-2-ethylhexanoate
2141 145	y	2162		Pinane hydroperoxide
	butylperoxy)valerate	2163	148	Diacetone alcohol peroxides

	Guid No.	le Name of Material	ID No.	Guio No.	
2164	148	Dicetyl peroxydicarbonate	2186	125	Hydrogen chloride, refrigerated
2165	146	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxacyclononane	2187	120	liquid Carbon dioxide, refrigerated
2166	145	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxacyclononane	2188	119	liquid Arsine
2167	145	3,3,6,6,9,9-Hexamethyl-1,2,4,5- tetraoxacyclononane		119	
2168	145	2,2-Di-(4,4-di-tert-butyl-			Dichlorosilane Oxygen difluoride
2169	148	peroxycyclohexyl)propane Butyl peroxydicarbonate	2190	124	Oxygen difluoride, compressed
2170		Butyl peroxydicarbonate	2191	123	Sulfuryl fluoride
2171		Diisopropylbenzene	2191	123	Sulphuryl fluoride
		hydroperoxide	2192		Germane
2172	146	2,5-Dimethyl-2,5-di- (benzoylperoxy)hexane			Hexafluoroethane
2173	1/5	2,5-Dimethyl-2,5-di-		126	Hexafluoroethane, compressed
21/3	143	(benzoylperoxy)hexane	2193	126	Refrigerant gas R-116, compressed
2174	146	2,5-Dimethyl-2,5-dihydroperoxy hexane, not more than 82%	2194	125	Selenium hexafluoride
		with water	<mark>2195</mark>	125	Tellurium hexafluoride
2174	146	Dimethylhexane dihydroperoxide,	2196		Tungsten hexafluoride
		with 18% or more water	2197		Hydrogen iodide, anhydrous
	148	Diethyl peroxydicarbonate	2198		Phosphorus pentafluoride
2176		Di-n-propyl peroxydicarbonate	2198	125	Phosphorus pentafluoride, compressed
	148	tert-Butyl peroxyneodecanoate	2199	119	Phosphine
2178		2,2-Dihydroperoxypropane			Propadiene, inhibited
2179	146	1,1-Di-(tert-butylperoxy)- cyclohexane			Nitrous oxide, refrigerated liquid
2180	146	1,1-Di-(tert-butylperoxy)- cyclohexane	2202		Hydrogen selenide, anhydrous
2182	148	Diisobutyryl peroxide		116	
		tert-Butyl peroxycrotonate			Silane, compressed
2184		Ethyl-3,3-di-(tert-butyl-		119	,
2101		peroxy)butyrate		119	Carbonyl sulphide
2185	145	Ethyl-3,3-di-(tert-butyl- peroxy)butyrate, not more than 77% in solution	2205 2206	153 155	Adiponitrile Isocyanate solution, poisonous, n.o.s.

ID G No. N		e Name of Material	ID No.	Guid No.	
2206 1 !	55	socyanate solution, toxic, n.o.s.	2216	171	Fish scrap containing 6% to 12%
2206 1 !	55	socyanate solutions, n.o.s.	0047	405	water
2206 1 !	55	socyanates, n.o.s.	2217	135	Seed cake, with not more than 1.5% oil and not more than
2206 1 !	55	socyanates, poisonous, n.o.s.			11% moisture
2206 1 !	55	socyanates, toxic, n.o.s.	2218	132P	Acrylic acid, inhibited
2207 1 !	55	socyanate solutions, n.o.s. (toxic)			Allyl glycidyl ether
2207 1 !	55	socyanates, n.o.s. (toxic)	2222		Anisole
2208 1 4	40	Bleaching powder			Benzonitrile
2208 1 4	40	Calcium hypochlorite mixture,			Benzenesulfonyl chloride
		dry, with more than 10% but not more than 39% available			Benzenesulphonyl chloride Benzotrichloride
		Chlorine			
2209 1 :	32	Formaldehyde, solutions			n-Butyl methacrylate
		(Formalin) (corrosive)			n-Butyl methacrylate, inhibited Butylphenols, liquid
2210 1 :	35	Maneb	2220		Butylphenols, solid
2210 1 :	35	Maneb preparation, with not less than 60% Maneb	2232		Chloroacetaldehyde
2210 1	25	Pesticide, water-reactive	2232		2-Chloroethanal
		Polymeric beads, expandable	2233	152	Chloroanisidines
		Polystyrene beads, expandable	2234	130	Chlorobenzotrifluorides
		Asbestos	2235	153	Chlorobenzyl chlorides
		Asbestos, blue		156	3-Chloro-4-methylphenyl
		Asbestos, brown			isocyanate
		Blue asbestos	2237	153	Chloronitroanilines
		Brown asbestos	2238	130	Chlorotoluenes
		Paraformaldehyde	2239	153	Chlorotoluidines
		Phthalic anhydride	2239		Chlorotoluidines, liquid
2215 1 !		Maleic acid			Chlorotoluidines, solid
		Maleic anhydride	2240	154	Chromosulfuric acid
2216 1		Fish meal, stabilized	2240	154	Chromosulphuric acid
2216 1		Fish meal containing 6% to 12%	2241		Cycloheptane
	-	water	2242		Cycloheptene
2216 1	71	Fish scrap, stabilized			Cyclohexyl acetate
			2244	129	Cyclopentanol

ID Gu No. No	ide Name of Material	ID Guide N No. No.	ame of Material
No. No. 2245 127 2246 128 2247 128 2249 153 2250 156 2251 127 2251 127	7 Cyclopentanone 3 Cyclopentene	No. No. 2267 156 Dimeth phose 2267 156 Dimeth chlo 2269 153 3,3'-Im 2270 132 Ethyla with more 2271 127 Ethyl a 2272 153 N-Ethyl 2273 153 2-Ethyl	nyl sphorochloridothioate nyl thiophosphoryl ride ninodipropylamine mine, aqueous solution, not less than 50% but not e than 70% Ethylamine myl ketone
2251 127 2252 127 2253 153 2254 133 2255 146 2255 146 2256 130 2257 138 2257 138 2258 132	7P 2,5-Norbornadiene, inhibited 7 1,2-Dimethoxyethane 8 N,N-Dimethylaniline 8 Matches, fusee 6 Organic peroxides, samples, n.o.s 6 Polyester resin kit 7 Cyclohexene 8 Potassium 8 Potassium 9 Potassium, metal 9 1,2-Propylenediamine 9 1,3-Propylenediamine 9 Triethylenetetramine 9 Tripropylamine 9 Xylenols 9 Dimethylcarbamoyl chloride 9 Dimethylcyclohexanes 9 Dimethylcyclohexylamine 9 N,N-Dimethylformamide	2278 128 n-Hept 2279 151 Hexact 2280 153 Hexam 2281 156 Hexam 2282 129 Hexan 2283 130P Isobuty 2284 131 Isobuty 2285 156 Isocya 2286 128 Pentar 2287 128 Isohex 2288 128 Isohex 2289 153 Isopho 2290 156 IPDI 2290 156 Isopho	Ihexylamine nethacrylate nethacrylate, inhibited nene hlorobutadiene nethylenediamine, solid nethylene diisocyanate ols yl methacrylate yl methacrylate, inhibited yronitrile natobenzotrifluorides methylheptane ttene ene
2267 156			ompound, soluble, n.o.s. uoborate Page 59

ID No.	Guio No.	de Name of Material	ID No.	Guio No.	
2293	127	4-Methoxy-4-methyl- pentan-2-one	2318	135	Sodium hydrosulfide, solid, with less than 25% water of
2294	153	N-Methylaniline	0010	405	crystallization
2295	155	Methyl chloroacetate	2318	135	Sodium hydrosulfide, with less than 25% water of
2296	128	Methylcyclohexane			crystallization
2297	127	Methylcyclohexanone	2318	135	Sodium hydrosulphide, solid,
2298	128	Methylcyclopentane			with less than 25% water of
2299	155	Methyl dichloroacetate	2210	125	crystallization
2300	153	2-Methyl-5-ethylpyridine	2318	135	Sodium hydrosulphide, with less than 25% water of
2301	127	2-Methylfuran			crystallization
2302	127	5-Methylhexan-2-one	2319	128	Terpene hydrocarbons, n.o.s.
2303	128	Isopropenylbenzene	2320	153	Tetraethylenepentamine
2304	133	Naphthalene, molten	2321	153	Trichlorobenzenes, liquid
2305	153	Nitrobenzenesulfonic acid	2322	152	Trichlorobutene
2305	153	Nitrobenzenesulphonic acid	2323	129	Triethyl phosphite
2306	152	Nitrobenzotrifluorides	2324	128	Triisobutylene
2307	152	3-Nitro-4-chlorobenzotrifluoride	2325	129	1,3,5-Trimethylbenzene
2308	157	Nitrosylsulfuric acid	2326	153	Trimethylcyclohexylamine
2308	157	Nitrosylsulphuric acid	2327	153	Trimethylhexamethylenediamines
		Octadiene Ponton 3.4 diona	2328	156	Trimethylhexamethylene diisocyanate
		Pentan-2,4-dione	2329	129	Trimethyl phosphite
		2,4-Pentanedione	2330		Undecane
		Pentane-2,4-dione Phenetidines	2331	154	Zinc chloride, anhydrous
		Phenol, molten		129	Acetaldehyde oxime
2312		Picolines	2333		Allyl acetate
	171		2334		Allylamine
2313	171	biphenyls (PCB)	2335	131	Allyl ethyl ether
2315	171	PCB	2336	131	Allyl formate
2315	171	Polychlorinated biphenyls	2337	131	Phenyl mercaptan
2315	171	Polychlorinated biphenyls, liquid	2338	131	Benzotrifluoride
2315	171	Polychlorinated biphenyls, solid	2339	130	2-Bromobutane
2316	157	Sodium cuprocyanide, solid	2340	130	2-Bromoethyl ethyl ether
2317		Sodium cuprocyanide, solution			
Page 6	0				

ID Guide Name of Material No. No.	ID Guide Name of Material No. No.
2341 130 1-Bromo-3-methylbutane	2372 129 1,2-Di-(dimethylamino)ethane
2342 130 Bromomethylpropanes	2373 127 Diethoxymethane
2343 130 2-Bromopentane	2374 127 Diethoxymethalie
2344 130 2-Bromopropane	2375 129 Diethyl sulfide
2344 130 Bromopropanes	2375 129 Diethyl sulphide
2345 129 3-Bromopropyne	2376 127 Diethyrsdiphide
2346 127 Butanedione	2377 127 1,1-Dimethoxyethane
2346 127 Diacetyl	2378 131 2-Dimethylaminoacetonitrile
2347 130 Butyl mercaptan	2379 132 1,3-Dimethylbutylamine
2348 129P Butyl acrylate	2380 127 Dimethyldiethoxysilane
2348 129P Butyl acrylates, inhibited	2381 130 Dimethyl disulfide
2350 127 Butyl methyl ether	2381 130 Dimethyl disulphide
2351 129 Butyl nitrites	2382 131 1,2-Dimethylhydrazine
2352 127P Butyl vinyl ether, inhibited	2382 131 Dimethylhydrazine, symmetrical
2353 132 Butyryl chloride	2383 132 Dipropylamine
2354 131 Chloromethyl ethyl ether	2384 127 Di-n-propyl ether
2356 129 2-Chloropropane	2384 127 Dipropyl ether
2357 132 Cyclohexylamine	2385 129 Ethyl isobutyrate
2358 128P Cyclooctatetraene	2386 132 1-Ethylpiperidine
2359 132 Diallylamine	2387 130 Fluorobenzene
2360 131P Diallyl ether	2388 130 Fluorotoluenes
2361 132 Diisobutylamine	2389 127 Furan
2362 130 1,1-Dichloroethane	2390 129 2-lodobutane
2363 130 Ethyl mercaptan	2391 129 lodomethylpropanes
2364 127 n-Propyl benzene	2392 129 lodopropanes
2366 127 Diethyl carbonate	2393 132 Isobutyl formate
2367 130 alpha-Methylvaleraldehyde	2394 129 Isobutyl propionate
2367 130 Methyl valeraldehyde (alpha)	2395 132 Isobutyryl chloride
2368 127 alpha-Pinene	2396 131P Methacrylaldehyde
2368 127 Pinene (alpha)	2396 131P Methacrylaldehyde, inhibited
2369 152 Ethylene glycol monobutyl ether	2397 127 3-Methylbutan-2-one
2370 128 1-Hexene	2398 127 Methyl tert-butyl ether
2371 128 Isopentenes	2399 132 1-Methylpiperidine
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ID Gui		ID No.	Guid No.	
2400 130	Methyl isovalerate	2427	140	Potassium chlorate, solution
2401 132	Piperidine	2428	140	Sodium chlorate, aqueous
2402 130	Isopropyl mercaptan			solution
2402 130	Propanethiols	2429	140	Calcium chlorate, aqueous solution
2402 130	Propyl mercaptan	2420	1/10	Calcium chlorate, solution
2403 129	P Isopropenyl acetate		153	
2404 131	Propionitrile	2430	133	(including C2-C12
2405 129	Isopropyl butyrate			homologues)
2406 131	Isopropyl isobutyrate	2431	153	Anisidines
2407 155	Isopropyl chloroformate	2431	153	Anisidines, liquid
2409 129	Isopropyl propionate	2431	153	Anisidines, solid
2410 129	1,2,3,6-Tetrahydropyridine	2432	153	N,N-Diethylaniline
2410 129	1,2,5,6-Tetrahydropyridine	2433	152	Chloronitrotoluenes
2411 131	Butyronitrile	2433	152	Chloronitrotoluenes, liquid
2412 129	Tetrahydrothiophene	2433	152	Chloronitrotoluenes, solid
2413 128	Tetrapropyl orthotitanate	2434	156	Dibenzyldichlorosilane
2414 130	Thiophene	2435	156	Ethylphenyldichlorosilane
2416 129	Trimethyl borate	2436	129	Thioacetic acid
2417 125	Carbonyl fluoride	2437	156	Methylphenyldichlorosilane
2417 125	Carbonyl fluoride, compressed	2438	132	Trimethylacetyl chloride
2418 125	Sulfur tetrafluoride	2439	154	Sodium bifluoride, solid
2418 125	Sulphur tetrafluoride	2439	154	·
2419 116	Bromotrifluoroethylene	2439	154	Sodium hydrogendifluoride
2420 125	Hexafluoroacetone	2439	154	, 5
2421 124	Nitrogen trioxide	2440	154	,
2422 126	Octafluorobut-2-ene	2440	154	, ,
2422 126	Refrigerant gas R-1318	2441		Titanium trichloride, pyrophoric
2424 126	Octafluoropropane	2441	135	
2424 126	Refrigerant gas R-218	2442	154	pyrophoric Trichlorogeopyl chloride
		2442 2443		Trichloroacetyl chloride Titanium tetrachloride and
2426 140	concentrated solution)			
2426 140	concentrated solution) Potassium chlorate, aqueous solution			Vanadium oxytrichloride, mixture

ID No.	Guic No.	le Name of Material	ID No.		de Name of Material
2443	137	Vanadium oxytrichloride and	2465	140	Sodium dichloroisocyanurate
		Titanium tetrachloride, mixture	2465	140	Sodium dichloro-s-triazinetrione
2444	137	Vanadium tetrachloride	2466	143	Potassium superoxide
2445		Lithium alkyls	2467	140	Sodium percarbonates
2446	153	Nitrocresols	2468	140	Trichloroisocyanuric acid, dry
2447		Phosphorus, white, molten	2468	140	Trichloro-s-triazinetrione, dry
		White phosphorus, molten	2468	140	(mono)-(Trichloro)-tetra-
2447		Yellow phosphorus, molten			(monopotassium dichloro)- penta-s-triazinetrione, dry
2448	133	Sulfur, molten	2469	140	Zinc bromate
2448	133	Sulphur, molten	2470	152	Phenylacetonitrile, liquid
2449	154	Ammonium oxalate	2471	154	Osmium tetroxide
2449	154	Oxalates, water soluble	2473	154	Sodium arsanilate
2451	122	Nitrogen trifluoride	2474	157	Thiophosgene
2451	122	Nitrogen trifluoride, compressed	2475	157	Vanadium trichloride
2452	116P	Ethylacetylene, inhibited	2477	131	Methyl isothiocyanate
2453	115	Ethyl fluoride	2478	155	Isocyanate solution, flammable,
2453	115	Refrigerant gas R-161	0.470	4	poisonous, n.o.s.
2454	115	Methyl fluoride	2478	155	Isocyanate solution, flammable, toxic, n.o.s.
2454	115	Refrigerant gas R-41	2478	155	Isocyanate solutions, n.o.s.
2455	116	Methyl nitrite	2478		·
		2-Chloropropene			poisonous, n.o.s.
		2,3-Dimethylbutane	2478	155	, , ,
2458		Hexadiene			n.o.s.
		2-Methyl-1-butene			Isocyanates, n.o.s.
2460	127	2-Methyl-2-butene	2480	155	Methyl isocyanate
2461	127	Methylpentadiene	2481	155	Ethyl isocyanate
2462		Methyl pentane	2482		n-Propyl isocyanate
2463		Aluminum hydride	2483		Isopropyl isocyanate
2464		Beryllium nitrate	2484	155	tert-Butyl isocyanate
2465		Dichloroisocyanuric acid, dry	2485		n-Butyl isocyanate
2465		Dichloroisocyanuric acid salts	2486		Isobutyl isocyanate
2465	140	Potassium dichloro-s- triazinetrione, dry	2487	155	Phenyl isocyanate

ID No.		de Name of Material		Guid No.	de Name of Material
2488	155	Cyclohexyl isocyanate	2514	129	Bromobenzene
2489	156		2515	159	Bromoform
		diisocyanate	2516	151	Carbon tetrabromide
		Dichloroisopropyl ether	2517	115	1-Chloro-1,1-difluoroethane
		Ethanolamine	2517	115	Chlorodifluoroethanes
		Ethanolamine, solution	2517	115	Difluorochloroethanes
		Monoethanolamine	2517	115	Refrigerant gas R-142b
		Hexamethyleneimine	2518	153	1,5,9-Cyclododecatriene
		lodine pentafluoride	2520	130F	Cyclooctadienes
		Propionic anhydride	2521	131F	Diketene, inhibited
		Sodium phenolate, solid 1,2,3,6-Tetrahydro- benzaldehyde			2-Dimethylaminoethyl methacrylate
2501	152	1-Aziridinyl phosphine oxide (Tris)			P Dimethylaminoethyl methacrylate
2501	152	Tri-(1-aziridinyl)phosphine			Ethyl orthoformate
2301	132	oxide, solution		156	Ethyl oxalate
2501	152	Tris-(1-aziridinyl)phosphine oxide, solution			Furfurylamine P Isobutyl acrylate
2502	132	Valeryl chloride	2527	130F	Isobutyl acrylate, inhibited
2503	137	Zirconium tetrachloride	2528	129	IsobutyI isobutyrate
2504	159	Acetylene tetrabromide	2529	132	Isobutyric acid
2504	159	Tetrabromoethane	2530	132	Isobutyric anhydride
2505	154	Ammonium fluoride	2531	153F	Methacrylic acid, inhibited
2506	154	Ammonium hydrogen sulfate	2533	156	Methyl trichloroacetate
2506	154	Ammonium hydrogen sulphate	2534	119	Methylchlorosilane
2507	154	Chloroplatinic acid, solid	2535	132	4-Methylmorpholine
2508	156	Molybdenum pentachloride	2535	132	N-Methylmorpholine
2509	154	Potassium hydrogen sulfate	2535	132	Methylmorpholine
2509	154	Potassium hydrogen sulphate	2536	127	Methyltetrahydrofuran
2511	153	2-Chloropropionic acid	2538	133	Nitronaphthalene
2511	153	alpha-Chloropropionic acid	2541	128	Terpinolene
2512	152	Aminophenols	2542	153	Tributylamine
2513	156	Bromoacetyl bromide	2545	135	Hafnium powder, dry

ID No.	Guio No.	de Name of Material	ID No.		de Name of Material
2546	135	Titanium powder, dry	2565	153	Dicyclohexylamine
2547	143	Sodium superoxide	2567	154	Sodium pentachlorophenate
2548	124	Chlorine pentafluoride	2570	154	Cadmium compound
2550	147	Methyl ethyl ketone peroxide	2571	156	Alkylsulfuric acids
2551	145	tert-Butyl peroxydiethylacetate,	2571	156	Alkylsulphuric acids
		with tert-Butyl peroxybenzoate	2571	156	Ethylsulfuric acid
2552	151	Hexafluoroacetone hydrate	2571	156	Ethylsulphuric acid
2553		Naphtha	2572	153	Phenylhydrazine
		Methylallyl chloride	2573	141	Thallium chlorate
		Nitrocellulose, colloided,	2574	151	Tricresyl phosphate
2000	113	granular or flake, wet, with not	2576	137	Phosphorus oxybromide, molten
		less than 20% water	2577	156	Phenylacetyl chloride
2555	113	Nitrocellulose with water, not less than 25% water	2578	157	Phosphorus trioxide
255/	112		2579	153	Piperazine
2556	113	Nitrocellulose, wet, with not less than 30% alcohol or solvent	2580	154	Aluminum bromide, solution
2556	113	Nitrocellulose with alcohol	2581	154	Aluminum chloride, solution
2556		Nitrocellulose with not less than	2582	154	Ferric chloride, solution
		25% alcohol	2583	153	
2557	133	Lacquer chips, dry			more than 5% free Sulfuric acid
2557	133	Nitrocellulose mixture, without plasticizer, without pigment	2583	153	
2557	133	Nitrocellulose mixture, without plasticizer, with pigment	2583	152	acid
2557	133	Nitrocellulose mixture, with plasticizer, without pigment	2303	133	more than 5% free Sulfuric acid
2557	133	Nitrocellulose mixture, with plasticizer, with pigment	2583	153	Aryl sulphonic acids, solid, with more than 5% free Sulphuric
2557	133	Nitrocellulose with plasticizing substance	2583	153	acid Toluene sulfonic acid, solid, with
2558	131	Epibromohydrin			more than 5% free Sulfuric
2560	129	2-Methylpentan-2-ol	0500	450	acid
2561	127	3-Methyl-1-butene	2583	153	Toluene sulphonic acid, solid, with more than 5% free
2562	148	tert-Butyl peroxyisobutyrate			Sulphuric acid
2564	153	Trichloroacetic acid, solution			
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	Guid No.		ID No.	Gui No	
		Alkyl sulfonic acids, liquid, with more than 5% free Sulfuric acid	2586	153	Alkyl sulphonic acids, liquid, with not more than 5% free Sulphuric acid
2584	153	Alkyl sulphonic acids, liquid, with more than 5% free Sulphuric acid	2586	153	Aryl sulfonic acids, liquid, with not more than 5% free Sulfuric
2584	153	Aryl sulfonic acids, liquid, with more than 5% free Sulfuric acid	2586	153	acid Aryl sulphonic acids, liquid, with not more than 5% free
2584	153	Aryl sulphonic acids, liquid, with more than 5% free Sulphuric acid	2586	153	Sulphuric acid Toluene sulfonic acid, liquid, with not more than 5% free
2584	153	Dodecylbenzenesulfonic acid			Sulfuric acid
2584	153	Dodecylbenzenesulphonic acid	2586	153	Toluene sulphonic acid, liquid, with not more than 5% free
2584	153	Toluene sulfonic acid, liquid, Sulphuric acid			
		with more than 5% free Sulfuric acid	2587	153	Benzoquinone
2584	153	Toluene sulphonic acid, liquid,	2588	151	Insecticide, dry, n.o.s.
	with more than 5% free 2588 151 Pesti	Pesticide, solid, poisonous			
2585	153	Sulphuric acid Alkyl sulfonic acids, solid, with	2588	151	Pesticide, solid, poisonous, n.o.s.
		not more than 5% free Sulfuric acid	2588	151	Pesticide, solid, toxic, n.o.s.
25.85	152	Alkyl sulphonic acids, solid, with	2589	155	Vinyl chloroacetate
2303	133	not more than 5% free	2590	171	Asbestos, white
		Sulphuric acid	2590	171	White asbestos
2585	153	Aryl sulfonic acids, solid, with not more than 5% free Sulfuric	2591	120	Xenon, refrigerated liquid (cryogenic liquid)
2505	150	acid	2592	145	Distearyl peroxydicarbonate
2585	153	Aryl sulphonic acids, solid, with not more than 5% free	2593	148	Di-(2-methylbenzoyl)peroxide
		Sulphuric acid	2594	148	tert-Butyl peroxyneodecanoate
2585	153	Toluene sulfonic acid, solid, with	2595	148	Dimyristyl peroxydicarbonate
		not more than 5% free Sulfuric acid	2596	145	tert-Butyl peroxy-3- phenylphthalide
2585	153	Toluene sulphonic acid, solid, with not more than 5% free	2597	148	Di-(3,5,5-trimethyl-1,2- dioxolanyl-3)peroxide
2586	153	Sulphuric acid Alkyl sulfonic acids, liquid, with not more than 5% free Sulfuric acid	2598	145	Ethyl-3,3-di-(tert- butylperoxy)butyrate

ID No.	Guid No.	de Name of Material		Gui No	de Name of Material
2599	126	Chlorotrifluoromethane and Trifluoromethane azeotropic mixture with approximately 60% Chlorotrifluoromethane	2602	126	Refrigerant gas R-12 and Refrigerant gas R-152a azeotropic mixture with 74% Refrigerant gas R-12
2599	126	Refrigerant gas R-13 and Refrigerant gas R-23 azeotropic mixture with 60% Refrigerant gas R-13	2602	126	Refrigerant gas R-152a and Refrigerant gas R-12 azeotropic mixture with 74% Refrigerant gas R-12
2599		Refrigerant gas R-23 and Refrigerant gas R-13 azeotropic mixture with 60% Refrigerant gas R-13	2602	126	Refrigerant gas R-500 (azeotropic mixture of Refrigerant gas R-12 and Refrigerant gas R-152a with approximately 74%
2599	126	Refrigerant gas R-503 (azeotropic mixture of			Refrigerant gas R-12)
		Refrigerant gas R-13 and			Cycloheptatriene
		Refrigerant gas R-23 with approximately 60%			Boron trifluoride diethyl etherate
		Refrigerant gas R-13)		155	, ,
2599	126	Trifluoromethane and		155	
		Chlorotrifluoromethane azeotropic mixture with			P Acrolein dimer, stabilized
		approximately 60%	2608		Nitropropanes
2400	110	Carbon manayida and Hudragan	2609		Triallyl borate Triallylamine
2600	119	Carbon monoxide and Hydrogen mixture			Propylene chlorohydrin
2600	119	Carbon monoxide and Hydrogen		127	, ,
		mixture, compressed	2614		
2600	119	Hydrogen and Carbon monoxide mixture	2615	127	Ť
2600	110	Hydrogen and Carbon monoxide	2616	129	Triisopropyl borate
2000	117	mixture, compressed	2617	129	Methylcyclohexanols
2601	115	Cyclobutane	2618	130F	P Vinyltoluenes, inhibited
2602	126	Dichlorodifluoromethane and	2619	132	Benzyldimethylamine
		Difluoroethane azeotropic mixture with approximately	2620	130	Amyl butyrates
		74% Dichlorodifluoromethane	2621	127	Acetyl methyl carbinol
2602	126	Difluoroethane and			P Glycidaldehyde
		Dichlorodifluoromethane azeotropic mixture with	2623	133	Firelighters, solid, with flammable liquid
		approximately 74% dichlorodifluoromethane	2624	138	Magnesium silicide

ID Gui	de Name of Material		Guid No.	de Name of Material
2626 140	Chloric acid	2658	152	Selenium powder
2626 140	Chloric acid, aqueous solution,	2659	151	Sodium chloroacetate
	with not more than 10% Chloric acid	2660	153	Mononitrotoluidines
2627 140	Nitrites, inorganic, n.o.s.	2660	153	Nitrotoluidines (mono)
	Potassium fluoroacetate	2661	153	Hexachloroacetone
2629 151	Sodium fluoroacetate			Hydroquinone
	Barium selenate			Dibromomethane
2630 151	Barium selenite			Ethyl cyanoacetate
2630 151	Calcium selenate			ButyItoluenes
2630 151	Potassium selenate			Chloroacetonitrile
2630 151	Potassium selenite			Chlorocresols
2630 151	Selenates			Chlorocresols, liquid
2630 151	Selenites			Chlorocresols, solid
2630 151	Sodium selenite			Cyanuric chloride
2630 151	Zinc selenate			Ammonia colution with more
	Zinc selenite Fluoroacetic acid	2072	134	Ammonia, solution, with more than 10% but not more than 35% Ammonia
	Methyl bromoacetate	2672	154	Ammonium hydroxide
	Methyl iodide		154	
2645 153	Phenacyl bromide			than 10% but not more than 35% Ammonia
	Hexachlorocyclopentadiene	2673	151	2-Amino-4-chlorophenol
	Malononitrile	2674	154	Sodium fluorosilicate
	1,2-Dibromobutan-3-one	2674	154	Sodium silicofluoride
	1,3-Dichloroacetone	2676	119	Stibine
	1,1-Dichloro-1-nitroethane	2677	154	Rubidium hydroxide, solution
	4,4'-Diaminodiphenylmethane	2678	154	Rubidium hydroxide
	Benzyl iodide Potassium fluorosilicate	2678	154	Rubidium hydroxide, solid
2655 151		2679	154	Lithium hydroxide, solution
2656 154		2680	154	Lithium hydroxide, monohydrate
	Selenium disulfide			Lithium hydroxide, solid
2657 153				Caesium hydroxide, solution
Daga 40		2681	154	Cesium hydroxide, solution

ID No.	Guio No.		ID No.	Gui No	
2682	157	Caesium hydroxide	2693	154	, ,
2682	157	Cesium hydroxide			solution
2683	132	Ammonium hydrosulfide,		154	3
		solution		154	·
2683	132	Ammonium hydrosulphide, solution		154	
2683	132	Ammonium sulfide, solution			Potassium bisulphite solution
2683		Ammonium sulphide, solution		154	
2684		3-Diethylaminopropylamine			Zinc bisulphite solution
2684		Diethylaminopropylamine		156	, ,
	132	N,N-Diethylethylenediamine			Trifluoroacetic acid
2686	132	2-Diethylaminoethanol			P1-Pentol
2686	132	Diethylaminoethanol		127	Dimethyldioxanes Butoxyl
2687		Dicyclohexylammonium nitrite		127	•
2688	159	1-Bromo-3-chloropropane		127	·
2688	159	1-Chloro-3-bromopropane		129	
2689	153	Glycerol alpha-		153	
		monochlorohydrin		133	
2690		N,n-Butylimidazole	2715	133	Aluminum resinate
2691		Phosphorus pentabromide		153	
2692		Boron tribromide	2717	133	· ·
2693		Ammonium bisulfite, solid	2717	133	·
2693		Ammonium bisulfite, solution	2719	141	Barium bromate
2693		Ammonium bisulphite, solid	2720	141	Chromium nitrate
2693		Ammonium bisulphite, solution	2721	141	Copper chlorate
2693	154	Bisulfites, aqueous solution, n.o.s.	2722	140	Lithium nitrate
2693	154	Bisulfites, inorganic, aqueous	2723	140	Magnesium chlorate
		solutions, n.o.s.	2724	140	Manganese nitrate
2693	154	Bisulphites, aqueous solution,	2725	140	Nickel nitrate
2/22	154	n.o.s.	2726	140	Nickel nitrite
2693	154	Bisulphites, inorganic, aqueous solutions, n.o.s.		141	
2693	154			140	
		solution	2729	152	Hexachlorobenzene

ID (No.	Guio No.		ID No.	Guid No.	
2730	152	Nitroanisole	2743	155	n-Butyl chloroformate
2730	152	Nitroanisole, liquid	2744	155	Cyclobutyl chloroformate
2730	152	Nitroanisole, solid	2745	157	Chloromethyl chloroformate
2732	152	Nitrobromobenzene	2746	156	Phenyl chloroformate
2732	152	Nitrobromobenzene, liquid	2747	156	tert-Butylcyclohexyl
2732	152	Nitrobromobenzene, solid			chloroformate
2733	132	Alkylamines, n.o.s.	2748	156	2-Ethylhexyl chloroformate
2733	132	Amines, flammable, corrosive,	2749		Tetramethylsilane
		n.o.s.	2750	153	1,3-Dichloropropanol-2
		Polyalkylamines, n.o.s.	2751		Diethylthiophosphoryl chloride
2733	132	Polyamines, flammable, corrosive, n.o.s.	2752		1,2-Epoxy-3-ethoxypropane
2734	122	Alkylamines, n.o.s.	2753		N-Ethylbenzyltoluidines
		Amines, liquid, corrosive,	2754		N-Ethyltoluidines
2734	132	flammable, n.o.s.	2755	146	3-Chloroperoxybenzoic acid
2734	132	Polyalkylamines, n.o.s.		146	5 1
2734	132	Polyamines, liquid, corrosive, flammable, n.o.s.	2757	151	Carbamate pesticide, solid, poisonous
2735	153	Alkylamines, n.o.s.	2757	151	Carbamate pesticide, solid, toxic
		Amines, liquid, corrosive, n.o.s.	2757	151	Carbaryl
		Polyalkylamines, n.o.s.	2757	151	Carbofuran
		Polyamines, liquid, corrosive,	2757	151	Mexacarbate
		n.o.s.	2758		Carbamate pesticide, liquid,
2738	153	N-Butylaniline	2/30	131	flammable, poisonous
2739 2740		Butyric anhydride n-Propyl chloroformate	2758	131	Carbamate pesticide, liquid, flammable, toxic
	141	Barium hypochlorite, with more than 22% available Chlorine	2759	151	Arsenical pesticide, solid, poisonous
2742	155	sec-Butyl chloroformate	2759	151	Arsenical pesticide, solid, toxic
2742	155	Chloroformates, n.o.s.	2760	131	Arsenical pesticide, liquid,
2742		Chloroformates, poisonous,			flammable, poisonous
		corrosive, flammable, n.o.s.	2760	131	Arsenical pesticide, liquid,
2742	155	Chloroformates, toxic,			flammable, toxic
		corrosive, flammable, n.o.s.	2761		Aldrin, solid
2742	155	Isobutyl chloroformate	2761	151	Aldrin mixture, dry

	Guid No.		ID No.	Guid No.	
2761 2761		DDT Dichlorodiphenyltrichloroethane	2766	131	Phenoxy pesticide, liquid, flammable, toxic
		(DDT)	2767	151	Phenyl urea pesticide, solid, poisonous
2761 2761	151	Dieldrin Endosulfan	2767	151	Phenyl urea pesticide, solid,
	151	Lindane			toxic
2761		Organochlorine pesticide, solid, poisonous	2768	131	Phenyl urea pesticide, liquid, flammable, poisonous
2761	151	Organochlorine pesticide, solid, toxic	2768	131	Phenyl urea pesticide, liquid, flammable, toxic
2761	151	TDE (1,1-Dichloro-2,2-bis- (p-chlorophenyl)ethane)	2769	151	Benzoic derivative pesticide, solid, poisonous
2761	151	Toxaphene	2769	151	Benzoic derivative pesticide, solid, toxic
2762	131	Aldrin, liquid	2770	131	Benzoic derivative pesticide,
2762	131	Aldrin mixture, liquid			liquid, flammable, poisonous
2762	131	Organochlorine pesticide, liquid, flammable, poisonous	2770	131	Benzoic derivative pesticide, liquid, flammable, toxic
2762	131	Organochlorine pesticide, liquid, flammable, toxic	2771	151	Dithiocarbamate pesticide, solid, poisonous
2763	151	Triazine pesticide, solid, poisonous	2771	151	Dithiocarbamate pesticide, solid, toxic
2763	151	Triazine pesticide, solid, toxic	2771	151	Thiocarbamate pesticide, solid,
2764	131	Triazine pesticide, liquid, flammable, poisonous	2771	151	poisonous Thiocarbamate pesticide, solid,
2764	131	Triazine pesticide, liquid,	2771	151	toxic
2745	152	flammable, toxic	2771 2772		Thiram Dithiocarbamate pesticide,
27652765		2,4-Dichlorophenoxyacetic acid Phenoxy pesticide, solid,	2112	131	liquid, flammable, poisonous
		poisonous	2772	131	Dithiocarbamate pesticide, liquid, flammable, toxic
		Phenoxy pesticide, solid, toxic	2772	131	Thiocarbamate pesticide, liquid,
2705	152	2,4,5-Trichlorophenoxyacetic acid			flammable, poisonous
2765	152	2,4,5-Trichlorophenoxy- propionic acid	2772		Thiocarbamate pesticide, liquid, flammable, toxic
2766	131	Phenoxy pesticide, liquid, flammable, poisonous	2773	151	Phthalimide derivative pesticide, solid, poisonous
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	ID No.	Guid No.		ID No.	Guio No.	
2	2773	151	Phthalimide derivative pesticide, solid, toxic	2782	131	Bipyridilium pesticide, liquid, flammable, poisonous
2	2774	131	Phthalimide derivative pesticide, liquid, flammable,	2782	131	Bipyridilium pesticide, liquid, flammable, toxic
,	7771	121	poisonous Phthalimide derivative	2783		Azinphos methyl
4	2114	131	pesticide, liquid, flammable, toxic	2783 2783		Chlorpyrifos Coumaphos
2	2775	151	Copper based pesticide, solid,	2783	152	Diazinon
			poisonous	2783	152	Dichlorvos
2	2775	151	Copper based pesticide, solid,	2783	152	Disulfoton
	277/	101	toxic	2783	152	Ethion
	2776		Copper based pesticide, liquid, flammable, poisonous	2783	152	Hexaethyl tetraphosphate mixture, liquid
2	2//6	131	Copper based pesticide, liquid, flammable, toxic	2783	152	Methyl parathion, liquid
	2777	151	Mercury based pesticide, solid,	2783	152	Methyl parathion, mixture, dry
Í	_,,,		poisonous	2783	152	Methyl parathion, solid
2	2777	151	Mercury based pesticide, solid,	2783	152	Mevinphos
			toxic	2783	152	Organic phosphate, dry
2	2778	131	Mercury based pesticide, liquid, flammable, poisonous	2783	152	Organic phosphate, solid
2	2778	131	Mercury based pesticide, liquid, flammable, toxic	2783	152	Organic phosphate compound, dry
,	2779	153	Substituted nitrophenol	2783	152	Organic phosphate compound, solid
2	2779	153	pesticide, solid, poisonous Substituted nitrophenol	2783	152	Organic phosphorus compound, dry
2	2780	131		2783	152	Organic phosphorus compound, solid
			pesticide, liquid, flammable, poisonous	2783	152	Organophosphorus pesticide, solid, poisonous
2	2780	131	Substituted nitrophenol pesticide, liquid, flammable, toxic	2783	152	Organophosphorus pesticide, solid, toxic
2	2781	151	1 2 1	2783	152	Parathion
			poisonous	2783	152	Parathion mixture, dry
2	2781	151	Bipyridilium pesticide, solid,	2783	152	Parathion mixture, liquid
			toxic	2783	152	Tetraethyl pyrophosphate, liquid

ID No.	Guio No.	de Name of Material	ID No.	Guio No:	
2783		Tetraethyl pyrophosphate, solid	2796	157	Sulfuric acid, with not more than 51% acid
2783		Tetraethyl pyrophosphate mixture, dry	2796	157	2.1.2.2.2.2
2783		Trichlorfon	2797	15/	
2784	131	Organophosphorus pesticide, liquid, flammable, poisonous	2797		,
2784	131	Organophosphorus pesticide, liquid, flammable, toxic	2797	154	Battery fluid, alkali, with electronic equipment or
2785	152	4-Thiapentanal			actuating device
2785	152	Thia-4-pentanal	2798		Benzene phosphorus dichloride
2786	153	Organotin pesticide, solid,	2798	137	Phenylphosphorus dichloride
2786	153	poisonous Organotin pesticide, solid, toxic	2799	137	Benzene phosphorus thiodichloride
2787		Organotin pesticide, liquid, flammable, poisonous	2799	137	Phenylphosphorus thiodichloride
2787	131	Organotin pesticide, liquid,	2800	154	Batteries, wet, non-spillable
		flammable, toxic	2801	154	Coal tar dye, liquid
2788	153	Organotin compound, liquid, n.o.s.	2801	154	Dye, liquid, corrosive, n.o.s.
2789		Acetic acid, glacial	2801	154	Dye intermediate, liquid, corrosive, n.o.s.
2789	132	Acetic acid, solution, more than 80% acid	2802	154	Copper chloride
2790	153	Acetic acid, solution, more than	2803	172	Gallium
		10% but not more than 80% acid	2805		Lithium hydride, fused solid
2793	170	Ferrous metal borings,	2806		Lithium nitride
		shavings, turnings or cuttings	2807		Magnetized material
2793	170	Steel swarf	2809	172	Mercury
2794	154	Batteries, wet, filled with acid	2809	172	Mercury, metallic
2794	154	Battery	2809	172	Mercury metal
2795	154	Batteries, wet, filled with alkali	2810	153	Bis-(2-chloroethyl) ethylamine
2795	154	Battery	2810	153	Bis-(2-chloroethyl) methylamine
2796	157	Battery fluid, acid	2810	153	Bis-(2-chloroethyl) sulfide
2796	157	Battery fluid, acid, with battery	2810	153	Bis-(2-chloroethyl) sulphide
2796	157	Battery fluid, acid, with	2810	153	Buzz
		electronic equipment or	2810	153	BZ
		actuating device			Радо 72

No.	Guid No.		ID No.	Guid No.	
2810	153	o-Chlorobenzylidene malononitrile	2810	153	Pinacolyl methylphosphonofluoridate
2810	153	Compound, tree or weed killing,	2810	153	Poisonous liquid, n.o.s.
<mark>2810</mark>	153	liquid (toxic) CS	2810	153	Poisonous liquid, n.o.s. (Inhalation Hazard Zone A)
<mark>2810</mark>	153	DC	2810	153	Poisonous liquid, n.o.s.
2810	153	Dichloro-(2-chlorovinyl) arsine			(Inhalation Hazard Zone B)
2810	153	Diphenylcyanoarsine	2810	153	Poisonous liquid, organic, n.o.s.
	153	Drugs, liquid, n.o.s.	2810	153	Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone A)
2810	153	O-Ethyl S-(2- diisopropylaminoethyl) methylphosphonothiolate	2810	153	Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone B)
<mark>2810</mark>	153	Ethyl N,N-	2810	153	Sarin
		dimethylphosphoramidocyanidate	2810	153	Soman
<mark>2810</mark>	153	GA	2810	153	Tabun
<mark>2810</mark>	153	GB	2810	153	Thickened GD
<mark>2810</mark>	153	GD	2810	153	Toxic liquid, n.o.s.
<mark>2810</mark>	153	GF	2810	153	Toxic liquid, n.o.s. (Inhalation
<mark>2810</mark>	153	Н	2010	450	Hazard Zone A)
2810	153	HD	2810	153	Toxic liquid, n.o.s. (Inhalation Hazard Zone B)
<mark>2810</mark>	153	HL	2810	153	Toxic liquid, organic, n.o.s.
<mark>2810</mark>	153	HN-1 (nitrogen mustard)	2810		Toxic liquid, organic, n.o.s.
<mark>2810</mark>		HN-2			(Inhalation Hazard Zone A)
	153 153	HN-3 Isopropyl	2810	153	Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone B)
		methylphosphonofluoridate	2810	153	Tris-(2-chloroethyl) amine
<mark>2810</mark>	153	L (Lewisite)	2810	153	VX
<mark>2810</mark>	153	Lewisite	2811	154	СХ
2810	153		2811	154	Drugs, solid, n.o.s.
2010	152	n.o.s.	2811	154	Flue dust, poisonous
	153	Medicines, toxic, liquid, n.o.s.	2811	154	Lead fluoride
	153		2811	154	Medicines, poisonous, solid, n.o.s.
	153		2811	154	Medicines, toxic, solid, n.o.s.
2810	153	Poison B, liquid, n.o.s.	2811	154	Phosgene oxime

	Guio No.	de Name of Material	ID No.		de Name of Material
2811	154	Poison B, solid, n.o.s.	2826	155	Ethyl chlorothioformate
2811	154	Poisonous solid, n.o.s.	2829	153	Caproic acid
2811	154	Poisonous solid, organic, n.o.s.	2829	153	Hexanoic acid
2811	154	Selenium oxide	2830	139	Lithium ferrosilicon
2811	154	Toxic solid, n.o.s.	2831	160	1,1,1-Trichloroethane
2811	154	Toxic solid, organic, n.o.s.	2834	154	Phosphorous acid
2812	154	Sodium aluminate, solid	2834	154	Phosphorous acid, ortho
2813	138	Lithium acetylide-	2835	138	Sodium aluminum hydride
		Ethylenediamine complex	2837	154	Bisulfates, aqueous solution
2813	138	Substances, which in contact with water emit flammable	2837	154	Bisulphates, aqueous solution
		gases, solid, n.o.s.	2837	154	Sodium bisulfate, solution
2813	138	Water-reactive solid, n.o.s.	2837	154	Sodium bisulphate, solution
2813	138	Water-reactive substances, solid, n.o.s.	2837	154	Sodium hydrogen sulfate, solution
2814	158	Etiologic agent, n.o.s.	2837	154	, , , , , , , , , , , , , , , , , , ,
2814	158	Infectious substance, affecting humans	2838	1291	solution P Vinyl butyrate, inhibited
2815	153	N-Aminoethylpiperazine	2839	153	Aldol
2817	154	Ammonium bifluoride, solution	2840	129	Butyraldoxime
2817	154	Ammonium hydrogendifluoride,	2841	131	Di-n-amylamine
		solution	2842	129	Nitroethane
2817	154	Ammonium hydrogen fluoride, solution	2844		Calcium manganese silicon
2818	154	Ammonium polysulfide, solution	2845	135	Ethyl phosphonous dichloride, anhydrous
2818	154	Ammonium polysulphide,	2845	135	Methyl phosphonous dichloride
		solution	2845	135	Pyrophoric liquid, n.o.s.
2819		Amyl acid phosphate	2845	135	Pyrophoric liquid, organic, n.o.s.
2820		Butyric acid	2846	135	Pyrophoric solid, n.o.s.
		Phenol, liquid	2846	135	Pyrophoric solid, organic, n.o.s.
2821		Phenol solution	2849		3-Chloropropanol-1
2822		2-Chloropyridine	2850	128	Propylene tetramer
2823		Crotonic acid	2851	157	Boron trifluoride, dihydrate
2823		Crotonic acid, liquid	2852	113	•
2823	153	Crotonic acid, solid			less than 10% water

			de Name of Material			de Name of Material
<u> </u>	NO.	No.		NO.	No.	<u> </u>
2	2852	113	Dipicryl sulphide, wetted with	2862	151	Vanadium pentoxide
			not less than 10% water	2863	154	Sodium ammonium vanadate
			Magnesium fluorosilicate	2864	151	Potassium metavanadate
			Magnesium silicofluoride	2865	154	Hydroxylamine sulfate
			Ammonium fluorosilicate	2865	154	Hydroxylamine sulphate
			Ammonium silicofluoride	2869	157	Titanium trichloride mixture
2	2855	151	Zinc fluorosilicate	2870	135	Aluminum borohydride
2	2855	151	Zinc silicofluoride	2870	135	Aluminum borohydride in
2	2856	151	Fluorosilicates, n.o.s.			devices
2	2856	151	Silicofluorides, n.o.s.	2871	170	Antimony powder
2	2857	126	Refrigerating machines,	2872	159	Dibromochloropropanes
			containing Ammonia solutions (UN2073)	2873	153	Dibutylaminoethanol
	2857	126	Refrigerating machines,	2874	153	Furfuryl alcohol
-	2007	120	containing Ammonia solutions	2875	151	Hexachlorophene
			(UN2672)	2876	153	Resorcinol
2	2857	126	Refrigerating machines,	2878	170	Titanium sponge granules
			containing non-flammable, liquefied gas	2878	170	Titanium sponge powders
	2857	126	Refrigerating machines,	2879	157	Selenium oxychloride
		0	containing non-flammable,	2880	140	
			non-poisonous, liquefied gas			with not less than 5.5% but not more than 10% water
2	2857	126	Refrigerating machines, containing non-flammable,	2880	140	Calcium hypochlorite, hydrated
			non-poisonous, non-	2000	110	mixture, with not less than
			corrosive, liquefied gas			5.5% but not more than 10%
2	2857	126	Refrigerating machines,	0001	405	water
			containing non-flammable, non-toxic, liquefied gas		135	, ,
	0057	126	Refrigerating machines,		135	y . y
-	2007	120	containing non-flammable,	2883	145	2,2-Di-(tert-butylperoxy)- propane
			non-toxic, non-corrosive,	2884	145	2,2-Di-(tert-butylperoxy)-
			liquefied gas	2004	1 13	propane
2	2858	170	Zirconium, dry, coiled wire, finished metal sheets or strips	2885	145	1,1-Di-(tert-butylperoxy)-
	2859	154	Ammonium metavanadate			cyclohexane
	2860		Vanadium trioxide	2886	148	tert-Butyl peroxy-2-
	2861		Ammonium polyvanadate			ethylhexanoate, with 2,2-Di- (tert-butylperoxy)butane
	2001		Allillolliulli polyvallauate			(tot. 23tyrporoxy/23tation

ID No.	Guid No.		ID No.	Gui No	
2887	145	tert-Butyl peroxy-2- ethylhexanoate, with 2,2-Di- (tert-butylperoxy)butane	2903		Pesticide, liquid, toxic, flammable, n.o.s.
2000	140	tert-Butyl peroxy-2-	2904		Chlorophenates, liquid
2888	140	ethylhexanoate, not more than	2904		Chlorophenolates, liquid
		50%, with phlegmatizer	2904	154	Phenolates, liquid
2889	148	Diisotridecyl peroxydicarbonate	2905	154	Chlorophenates, solid
2890	145	tert-Butyl peroxybenzoate	2905	154	Chlorophenolates, solid
2891	148	tert-Amyl peroxyneodecanoate	2905	154	Phenolates, solid
2892		Dimyristyl peroxydicarbonate, not more than 42%, in water	2906	127	Triisocyanatoisocyanurate of Isophoronediisocyanate, solution (70%)
2893	145	Lauroyl peroxide, not more than 42%, stable dispersion, in	2907	133	Isosorbide dinitrate mixture
		water	2908	161	Radioactive material, empty
2894	148	Di-(4-tert-butylcyclohexyl)-			packages
		peroxydicarbonate	2908	161	Radioactive material, excepted
2895	148	Dicetyl peroxydicarbonate, not more than 42%, in water	2909	161	package, empty packaging Radioactive material, articles
2896	147	Cyclohexanone peroxide, not more than 72% as a paste			manufactured from depleted Uranium
2897	145	1,1-Di-(tert-butylperoxy)- cyclohexane	2909	161	Radioactive material, articles manufactured from natural
2898	148	tert-Amyl peroxy-2- ethylhexanoate	2909	161	Thorium Radioactive material, articles
2899	148	Organic peroxides, n.o.s. (including trial quantities)			manufactured from natural Uranium
2900	158	Infectious substance, affecting animals only	2909	161	Radioactive material, excepted package, articles manufactured from depleted
2901	124	Bromine chloride			Uranium
2902	151	Allethrin	2909	161	Radioactive material, excepted
2902	151	Insecticide, liquid, poisonous, n.o.s.			package, articles manufactured from natural Thorium
2902	151	Pesticide, liquid, poisonous, n.o.s.	2909	161	Radioactive material, excepted package, articles
2902	151	Pesticide, liquid, toxic, n.o.s.			manufactured from natural
2903	131	Pesticide, liquid, poisonous, flammable, n.o.s.			Uranium

D Gu No. No	ide Name of Material o.	ID No.	Guid No.	
2910 161	Radioactive material, excepted package, articles	2916	163	Radioactive material, Type B(U) package
	manufactured from depleted Uranium	2917	163	Radioactive material, Type B(M) package
2910 161	Radioactive material, excepted package, articles manufactured from natural	2918	165	Radioactive material, fissile, n.o.s.
	Thorium	2919	163	Radioactive material,
2910 161	Radioactive material, excepted package, articles			transported under special arrangement
	manufactured from natural	2920	132	Corrosive liquid, flammable, n.o.s
	Uranium	2920	132	Dichlorobutene
2910 161	Radioactive material, excepted	2921	134	Corrosive solid, flammable, n.o.s.
0010 1/1	package, empty packaging	2922	154	Corrosive liquid, poisonous, n.o.s.
2910 161	Radioactive material, excepted package, instruments or	2922	154	Corrosive liquid, toxic, n.o.s.
	articles	2922	154	Sodium hydrosulfide, solution
2910 161	Radioactive material, excepted package, limited quantity of material	2922	154	$So dium\ hydrosulphide,\ solution$
		2923	154	$Corrosive\ solid,\ poisonous,\ n.o.s.$
0010 161	Radioactive material, limited quantity, n.o.s.	2923	154	Corrosive solid, toxic, n.o.s.
2910 101		2923	154	Sodium hydrosulfide, solid
2911 161	Radioactive material, excepted	2923	154	Sodium hydrosulphide, solid
	package, instruments or	2924	132	Dichlorobutene
2011 414	articles	2924	132	Flammable liquid, corrosive, n.o.s
2911 161	Radioactive material, instruments or articles	2925	134	Flammable solid, corrosive, n.o.s.
2912 162	Radioactive material, low specific activity (LSA), n.o.s.	2925	134	Flammable solid, corrosive, organic, n.o.s.
2912 162	Radioactive material, low specific activity (LSA-I)	2926	134	Flammable solid, poisonous, n.o.s.
2913 162		2926	134	Flammable solid, poisonous, organic, n.o.s.
2913 162	Radioactive material, surface contaminated objects (SCO-I)	2926	134	Flammable solid, toxic, organic, n.o.s.
2913 162		2927	154	Ethyl phosphonothioic
2713 102	contaminated objects (SCO-II)	2027	154	dichloride, anhydrous
2915 163	, J	2927	154	Ethyl phosphorodichloridate Poisonous liquid, corrosive, n.o.s.
	package	2927	134	Poisonous fiquia, corrosive, fi.o.s.

ID Guide Name of Material No. No.	ID Guide Name of Material No. No.
2927 154 Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone A)	2929 131 Toxic liquid, flammable, organic, n.o.s.
2927 154 Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone B)	2929 131 Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)
2927 154 Toxic liquid, corrosive, organic, n.o.s.	2929 131 Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)
2927 154 Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone A)	2930 134 Poisonous solid, flammable, n.o.s.2930 134 Poisonous solid, flammable, organic, n.o.s.
2927 154 Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone B)	2930 134 Toxic solid, flammable, n.o.s. 2930 134 Toxic solid, flammable, organic,
 2928 154 Poisonous solid, corrosive, n.o.s. 2928 154 Toxic solid, corrosive, organic, n.o.s. 	n.o.s. 2931 151 Vanadyl sulfate 2931 151 Vanadyl sulphate
2929 131 Chloropicrin mixture, flammable 2929 131 Poisonous liquid, flammable, n.o.s.	2933 132 Methyl 2-chloropropionate 2934 132 Isopropyl 2-chloropropionate
2929 131 Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	2935 132 Ethyl 2-chloropropionate 2936 153 Thiolactic acid
2929 131 Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	2937 153 alpha-Methylbenzyl alcohol 2937 153 Methylbenzyl alcohol (alpha) 2938 152 Methyl benzoate
2929 131 Poisonous liquid, flammable, organic, n.o.s.	2940 135 Cyclooctadiene phosphines2940 135 9-Phosphabicyclononanes
2929 131 Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	2941 153 Fluoroanilines 2942 153 2-Trifluoromethylaniline
2929 131 Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	2943 129 Tetrahydrofurfurylamine 2945 132 N-Methylbutylamine 2946 153 2-Amino-5-diethylaminopentane
2929 131 Toxic liquid, flammable, n.o.s.	2947 155 Isopropyl chloroacetate
2929 131 Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	2948 153 3-Trifluoromethylaniline
2929 131 Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	2949 154 Sodium hydrosulfide, with not less than 25% water of crystallization

ID Gui No. No		ID No.	Guid No.	le Name of Material
2949 154	Sodium hydrosulphide, with not less than 25% water of crystallization			Radioactive material, special form, n.o.s.
2950 138	Magnesium granules, coated	2975		Thorium metal, pyrophoric
2951 149	•	2976 <mark>2977</mark>		Thorium nitrate, solid Radioactive material, Uranium hexafluoride, fissile
2951 149	disulphohydrazide	2977	166	Uranium hexafluoride, fissile containing more than 1%
	Azodiisobutyronitrile			Uranium-235
2953 150	2,2'-Azodi-(2,4- dimethylvaleronitrile)	2978	166	Radioactive material, Uranium hexafluoride, non fissile or
2954 149	(hexahydrobenzonitrile)	2978	166	fissile-excepted Uranium hexafluoride, fissile- excepted
	2,2'-Azodi-(2,4-dimethyl-4- methoxyvaleronitrile)	2978	166	Uranium hexafluoride, low
2956 149	m-xylene	2978	166	specific activity Uranium hexafluoride, non- fissile
2956 149	,	2979	162	Uranium metal, pyrophoric
2965 139	etherate		162	Uranyl nitrate, hexahydrate, solution
2966 153	Thioglycol	2001	162	
2967 154		2981 2982		Uranyl nitrate, solid Radioactive material, n.o.s.
2967 154	•			Ethylene oxide and Propylene
2968 1352968 135	Maneb, stabilized Maneb preparation, stabilized	2703	1275	oxide mixture, with not more than 30% Ethylene oxide
2969 171	Castor beans, meal, pomace or flake	2983	129P	Propylene oxide and Ethylene oxide mixture, with not more
2970 149	Benzene sulfohydrazide			than 30% Ethylene oxide
2970 149	Benzene sulphohydrazide	2984	140	Hydrogen peroxide, aqueous
2971 149	Benzene-1,3-disulfohydrazide			solution, with not less than 8% but less than 20% Hydrogen
2971 149	Benzene-1,3-disulphohydrazide			peroxide
2972 149	N,N'-Dinitrosopentamethylene tetramine	2985	155	Chlorosilanes, flammable, corrosive, n.o.s.
2973 149	N,N'-Dinitroso-N,N'-dimethyl	2985	155	Chlorosilanes, n.o.s.
	terephthalamide	2986	155	Chlorosilanes, corrosive, flammable, n.o.s.

2986 155 Chlorosilanes, n.o.s.2998 156 Chlorosilanes, corrosive, n.o.s.2998 157 Chlorosilanes, n.o.s.2988 139 Chlorosilanes, n.o.s.2998 131 Phenoxy pesticide, liquid, poisonous, flammable2990 171 Life-saving appliances, self-inflating3000 152 Phenoxy pesticide, liquid, poisonous, flammable2991 131 Carbamate pesticide, liquid, poisonous, flammable3000 152 Phenoxy pesticide, liquid, poisonous, flammable2992 151 Carbamate pesticide, liquid, poisonous3000 152 Phenoxy pesticide, liquid, poisonous, flammable2993 131 Arsenical pesticide, liquid, poisonous, flammable3001 131 Phenyl urea pesticide, liquid, poisonous, flammable2993 131 Arsenical pesticide, liquid, poisonous3002 151 Phenyl urea pesticide, liquid, poisonous2994 151 Arsenical pesticide, liquid, poisonous3001 131 Benzoic derivative pesticide, liquid, toxic, flammable2995 131 Organochlorine pesticide, liquid, toxic, flammable3004 151 Benzoic derivative pesticide, liquid, toxic, flammable2995 131 Organochlorine pesticide, liquid, toxic, flammable3004 151 Benzoic derivative pesticide, liquid, toxic, flammable2996 151 Organochlorine pesticide, liquid, toxic3005 131 Dithiocarbamate pesticide, liquid, poisonous, flammable2996 151 Organochlorine pesticide, liquid, toxic3005 131 Thiocarbamate pesticide, liquid, poisonous, flammable2997 131 Triazine pesticide, liquid, poisonous, flammable3006 151 Dithiocarbamate pesticide, liquid, toxic, flammable2997 131 Triazine pesticide, liquid, poisonous, flammable3006 151 Dithiocarbamate pesticide, liquid, toxic, flammable2997 131 Triazine pesticide, liquid, poisonous3006 151 Dithiocarbamate pesticide, liquid, toxic <th>ID No.</th> <th>Guid No.</th> <th></th> <th>ID No.</th> <th>Guio No:</th> <th></th>	ID No.	Guid No.		ID No.	Guio No:	
2987 156 Chlorosilanes, n.o.s. 2988 139 Chlorosilanes, mater-reactive, flammable, corrosive, n.o.s. 2989 131 Lead phosphite, dibasic 2990 171 Aircraft evacuation slides 2991 131 Carbamate pesticide, liquid, poisonous, flammable 2991 131 Carbamate pesticide, liquid, poisonous, flammable 2992 151 Carbamate pesticide, liquid, poisonous 2993 151 Carbamate pesticide, liquid, poisonous 2994 151 Carbamate pesticide, liquid, poisonous 2995 151 Carbamate pesticide, liquid, poisonous 2996 151 Carbamate pesticide, liquid, poisonous 2997 151 Carbamate pesticide, liquid, poisonous 2998 151 Arsenical pesticide, liquid, poisonous 2999 151 Carbamate pesticide, liquid, poisonous 2990 151 Arsenical pesticide, liquid, toxic 2991 151 Arsenical pesticide, liquid, toxic 2993 151 Arsenical pesticide, liquid, poisonous 2994 151 Arsenical pesticide, liquid, toxic 2995 151 Organochlorine pesticide, liquid, poisonous 2996 151 Organochlorine pesticide, liquid, poisonous, flammable 2996 151 Organochlorine pesticide, liquid, poisonous, flammable 2996 151 Organochlorine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous, flammable 2998 151 Triazine pesticide, liquid, poisonous, flammable 2999 131 Phenoxy pesticide, liquid, poisonous 2901 152 Phenoxy pesticide, liquid, poisonous 2901 151 Phenyl urea pesticide, liquid, poisonous, flammable 2902 151 Phenyl urea pesticide, liquid, poisonous, flammable 2903 151 Phenyl urea pesticide, liquid, poisonous, flammable 2904 151 Arsenical pesticide, liquid, toxic, flammable 2905 151 Organochlorine pesticide, liquid, poisonous, flammable 2906 151 Organochlorine pesticide, liquid, poisonous, flammable 2907 131 Triazine pesticide, liquid, poisonous, flammable 2908 151 Organochlorine pesticide, liquid, poisonous, flammable 2909 151 Organochlorine pesticide, liquid, poisonous, flammabl				2998	151	·
2988 139 Chlorosilanes, n.o.s. 2988 139 Chlorosilanes, water-reactive, flammable, corrosive, n.o.s. 2989 131 Lead phosphite, dibasic 2990 171 Aircraft evacuation slides 2991 131 Carbamate pesticide, liquid, poisonous, flammable 2991 131 Carbamate pesticide, liquid, poisonous, flammable 2992 151 Carbamate pesticide, liquid, poisonous 2992 151 Carbamate pesticide, liquid, poisonous 2993 131 Arsenical pesticide, liquid, poisonous, flammable 2993 131 Arsenical pesticide, liquid, poisonous, flammable 2994 151 Arsenical pesticide, liquid, poisonous 2995 131 Organochlorine pesticide, liquid, poisonous, flammable 2996 151 Organochlorine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous, flammable 2998 131 Phenoxy pesticide, liquid, poisonous and poisonous flammable 2901 131 Phenyl urea pesticide, liquid, poisonous, flammable 2902 151 Phenyl urea pesticide, liquid, poisonous, flammable 2903 131 Benzoic derivative pesticide, liquid, toxic, flammable 2904 151 Arsenical pesticide, liquid, toxic 2905 131 Organochlorine pesticide, liquid, poisonous, flammable 2906 151 Organochlorine pesticide, liquid, poisonous, flammable 2907 131 Triazine pesticide, liquid, toxic, flammable 2908 131 Thiocarbamate pesticide, liquid, toxic, flammable 2909 131 Triazine pesticide, liquid, toxic				2998	151	Triazine pesticide, liquid, toxic
2988 139 Chlorosilanes, water-reactive, flammable, corrosive, n.o.s. 2989 133 Lead phosphite, dibasic 2990 171 Life-saving appliances, self-inflating 2991 131 Carbamate pesticide, liquid, poisonous, flammable 2991 131 Carbamate pesticide, liquid, poisonous (flammable) 2992 151 Carbamate pesticide, liquid, poisonous 2992 151 Carbamate pesticide, liquid, poisonous 2993 131 Arsenical pesticide, liquid, poisonous, flammable 2993 131 Arsenical pesticide, liquid, poisonous 2994 151 Arsenical pesticide, liquid, poisonous 2995 131 Organochlorine pesticide, liquid, poisonous 2996 151 Organochlorine pesticide, liquid, poisonous 2997 131 Triazine pesticide, liquid, poisonous 2998 131 Triazine pesticide, liquid, poisonous 2999 131 Triazine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous, flammable 2998 131 Dithiocarbamate pesticide, liquid, poisonous, flammable 2999 131 Triazine pesticide, liquid, poisonous, flammable 2990 151 Dribiocarbamate pesticide, liquid, poisonous, flammable 2991 131 Triazine pesticide, liquid, poisonous, flammable 2992 131 Triazine pesticide, liquid, poisonous, flammable 2993 131 Triazine pesticide, liquid, poisonous, flammable 2994 151 Dribiocarbamate pesticide, liquid, poisonous, flammable 2995 131 Dribiocarbamate pesticide, liquid, poisonous, flammable 2996 151 Dribiocarbamate pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous, flammable 2998 131 Dribiocarbamate pesticide, liquid, poisonous, flammable				2999	131	
2990 171 Aircraft evacuation slides 2990 171 Life-saving appliances, self-inflating 2991 131 Carbamate pesticide, liquid, poisonous, flammable 2991 131 Carbamate pesticide, liquid, toxic, flammable 2992 151 Carbamate pesticide, liquid, poisonous 2992 151 Carbamate pesticide, liquid, poisonous 2993 131 Arsenical pesticide, liquid, poisonous, flammable 2994 151 Arsenical pesticide, liquid, poisonous 2995 131 Organochlorine pesticide, liquid, poisonous, flammable 2995 131 Organochlorine pesticide, liquid, poisonous, flammable 2996 151 Organochlorine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous 2997 131 Triazine pesticide, liquid, toxic, flammable 2997 131 Triazine pesticide, liquid, poisonous 2997 131 Triazine pesticide, liquid, toxic, flammable 2998 131 Triazine pesticide, liquid, toxic, flammable 2999 131 Triazine pesticide, liquid, toxic, flammable 2999 131 Triazine pesticide, liquid, toxic, flammable 2990 131 Triazine pesticide, liquid, toxic	2988	139	Chlorosilanes, water-reactive,	2999	131	Phenoxy pesticide, liquid, toxic,
2990 171 Aircraft evacuation slides 2990 171 Life-saving appliances, self-inflating 2991 131 Carbamate pesticide, liquid, poisonous, flammable 2991 131 Carbamate pesticide, liquid, toxic, flammable 2992 151 Carbamate pesticide, liquid, poisonous 2992 151 Carbamate pesticide, liquid, poisonous 2993 131 Arsenical pesticide, liquid, poisonous, flammable 2993 131 Arsenical pesticide, liquid, poisonous 2994 151 Arsenical pesticide, liquid, poisonous 2995 131 Organochlorine pesticide, liquid, poisonous, flammable 2996 151 Organochlorine pesticide, liquid, poisonous, flammable 2996 151 Organochlorine pesticide, liquid, poisonous 2996 151 Organochlorine pesticide, liquid, poisonous 2996 151 Organochlorine pesticide, liquid, poisonous 2996 151 Organochlorine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous 2997 131 Triazine pesticide, liquid, toxic, flammable 2997 131 Triazine pesticide, liquid, poisonous 2997 131 Triazine pesticide, liquid, toxic, flammable 2998 131 Triazine pesticide, liquid, toxic, flammable 2999 131 Triazine pesticide, liquid, toxic, flammable 2990 151 Dithiocarbamate pesticide, liquid, toxic, flammable 2990 151 Dithiocarbamate pesticide, liquid, toxic, flammable 2991 151 Dithiocarbamate pesticide, liquid, toxic, flammable 2992 151 Dithiocarbamate pesticide, liquid, toxic, flammable 2993 151 Dithiocarbamate pesticide, liquid	2989	133	Lead phosphite, dibasic	3000	152	
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2991 131 Carbamate pesticide, liquid, poisonous, flammable 2991 131 Carbamate pesticide, liquid, toxic, flammable 2992 151 Carbamate pesticide, liquid, poisonous 2992 151 Carbamate pesticide, liquid, toxic 2993 131 Arsenical pesticide, liquid, poisonous, flammable 2994 151 Arsenical pesticide, liquid, poisonous 2995 131 Organochlorine pesticide, liquid, poisonous, flammable 2995 131 Organochlorine pesticide, liquid, poisonous 2996 151 Organochlorine pesticide, liquid, poisonous 2997 131 Triazine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, poisonous 2997 131 Triazine pesticide, liquid, toxic, flammable 2997 131 Triazine pesticide, liquid, poisonous, flammable 2997 131 Triazine pesticide, liquid, toxic, flammable 2998 131 Triazine pesticide, liquid, toxic, flammable 2999 131 Triazine pesticide, liquid, toxic, flammable 2990 131 Triazine pesticide, l	2990	171		3000	152	Phenoxy pesticide, liquid, toxic
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poisonous, flammable liquid, poisonous 2997 131 Triazine pesticide, liquid, toxic, 3006 151 Dithiocarbamate pesticide,	2996	151		3005	131	
di d	2997	131		3006	151	
	2997	131		3006	151	

ID No.	Guid No.		ID No.	Guid No.	
3006	151	Thiocarbamate pesticide, liquid, poisonous	3014	153	Substituted nitrophenol pesticide, liquid, toxic
3006	151	Thiocarbamate pesticide, liquid, toxic	3015	131	Bipyridilium pesticide, liquid, poisonous, flammable
3007	131	Phthalimide derivative pesticide, liquid, poisonous,	3015	131	Bipyridilium pesticide, liquid, toxic, flammable
3007	131	flammable Phthalimide derivative	3016	151	Bipyridilium pesticide, liquid, poisonous
		pesticide, liquid, toxic, flammable	3016	151	Bipyridilium pesticide, liquid, toxic
		Phthalimide derivative pesticide, liquid, poisonous	3017	131	Organophosphorus pesticide, liquid, poisonous, flammable
3008		Phthalimide derivative pesticide, liquid, toxic	3017	131	Organophosphorus pesticide, liquid, toxic, flammable
3009	131	Copper based pesticide, liquid, poisonous, flammable	3018	152	Methyl parathion, liquid
3009	131	Copper based pesticide, liquid, toxic, flammable	3018	152	Organophosphorus pesticide, liquid, poisonous
3010	151	Copper based pesticide, liquid, poisonous	3018	152	Organophosphorus pesticide, liquid, toxic
3010	151	Copper based pesticide, liquid,	3018	152	Tetraethyl pyrophosphate, liquid
3011		toxic Mercury based pesticide, liquid,	3019	131	Organotin pesticide, liquid, poisonous, flammable
3011		poisonous, flammable Mercury based pesticide, liquid,	3019	131	Organotin pesticide, liquid, toxic, flammable
		toxic, flammable	3020	153	Organotin pesticide, liquid, poisonous
3012	101	Mercury based pesticide, liquid, poisonous	3020	153	Organotin pesticide, liquid, toxic
3012	151	Mercury based pesticide, liquid, toxic	3021	131	Pesticide, liquid, flammable, poisonous
3013	131	Substituted nitrophenol pesticide, liquid, poisonous,	3021	131	Pesticide, liquid, flammable, toxic
		flammable	3022	127P	1,2-Butylene oxide, stabilized
3013	131	Substituted nitrophenol pesticide, liquid, toxic, flammable	3023 3023	131 131	2-Methyl-2-hepthanethiol tert-Octyl mercaptan
3014	153	Substituted nitrophenol pesticide, liquid, poisonous	3024	131	Coumarin derivative pesticide, liquid, flammable, poisonous

3024 131 Coumarin derivative pesticide, liquid, poisonous, llammable and provide pesticide, liquid, toxic, flammable and provide pesticide, liquid, poisonous and provide pesticide, solid, poisonous and provide and	ID No.	Guid No.	de Name of Material	ID No.	Gui No	
3025 131 Coumarin derivative pesticide, liquid, toxic, flammable 3026 151 Coumarin derivative pesticide, liquid, toxic 3040 149 Sodium 2-diazo-1-naphthol-4-sulphonate 3040 149 Sodium 2-diazo-1-naphthol-4-sulphonate 3041 149 Sodium 2-diazo-1-naphthol-5-sulfonate 3042 149 2-Diazo-1-naphthol-4-sulfonate 3042 149 2-Diazo-1-naphthol-5-sulfonate 3043 149 3043 149 3043 149 3043 149 3043 149 3043 149 3043 149 3043 149 3043 149	3024	131	liquid, flammable, toxic	3039	150	aminoethoxy)toluene-2-
3026 151 Coumarin derivative pesticide, liquid, toxic, flammable 3040 149 Sodium 2-diazo-1-naphthol-4-sulphonate 3041 149 Sodium 2-diazo-1-naphthol-5-sulfonate 3042 149 Sodium 2-diazo-1-naphthol-5-sulfonate 3041 149 Sodium 2-diazo-1-naphthol-5-sulfonate 3042 149 2-Diazo-1-naphthol-4-sulfonchoride 3042 149 2-Diazo-1-naphthol-4-sulfonchoride 3042 149 2-Diazo-1-naphthol-5-sulfonchoride 3043 149 2-Diazo-1-naphthol-5-sulfonch	3025	131		3040	149	Sodium 2-diazo-1-naphthol-4-
Social Strict Social Stric	3025	131		3040	149	Sodium 2-diazo-1-naphthol-4-
Soluminimetrative pesticide, liquid, toxic 3041 149 Sodium 2-diazo-1-naphthol-5-sulphonate 3042 149 2-Diazo-1-naphthol-4-sulphochloride 3042 149 2-Diazo-1-naphthol-4-sulphochloride 3042 149 2-Diazo-1-naphthol-4-sulphochloride 3043 149 2-Diazo-1-naphthol-5-sulphochloride 3048 157 Aluminum phosphide pesticide 3048 157 Aluminum phosphide pesticide 3049 138 Metal alkyl halides, n.o.s. 3049 138 Metal alkyl halides, n.o.s. 3049 138 Metal aryl halides, water-reactive, n.o.s. 3049 138 Metal aryl halides, water-reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, water-reactive, n.o.s. 3050 138 Metal aryl hydrides, matally hydri	3026	151		3041	149	Sodium 2-diazo-1-naphthol-5-
solid, poisonous 3027 151 Coumarin derivative pesticide, solid, toxic 3028 154 Batteries, dry, containing Potassium hydroxide, solid 3030 150 2,2'-Azodi-(2-methylbutyronitrile) 3031 149 Self-reactive substances, samples, n.o.s. 3032 149 Self-reactive substances, samples, n.o.s. 3033 149 3-Chloro-4-diethylaminobenzenediazonium zinc chloride 3034 149 4-Dipropylaminobenzenediazonium zinc chloride 3035 150 3-(2-Hydroxyethoxy)-4-pyrrolidin-1-yl benzenediazonium zinc chloride 3037 149 4-[Benzyl(ethyl)amino]-3-ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride 3042 149 2-Diazo-1-naphthol-4-sulphochloride 3043 149 2-Diazo-1-naphthol-5-sulfochloride 3048 157 Aluminum phosphide pesticide 3049 138 Metal alkyl halides, n.o.s. 3049 138 Metal alkyl halides, waterreactive, n.o.s. 3050 138 Metal alkyl hydrides, n.o.s.	3026	151		3041	149	Sodium 2-diazo-1-naphthol-5-
3028 154 Solid, toxic 3028 154 Batteries, dry, containing Potassium hydroxide, solid 3030 150 2,2'-Azodi-(2-methyl- butyronitrile) 3031 149 Self-reactive substances, samples, n.o.s. 3032 149 Self-reactive substances, trial quantities, n.o.s. 3033 149 3-Chloro-4-diethylamino- benzenediazonium zinc chloride 3035 150 3-(2-Hydroxyethoxy)-4- pyrrolidin-1-yl benzene- diazonium zinc chloride 3037 149 4-[Benzyl(ethyl)amino]-3- ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3- ethoxybenzenediazonium 3049 149 2-Diazo-1-naphthol-5- sulfochloride 3048 157 Aluminum phosphide pesticide 3049 138 Metal alkyl halides, n.o.s. 3049 138 Metal aryl halides, water- reactive, n.o.s. 3050 138 Metal alkyl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3051 135 Aluminum alkyl halides	3027	151		3042	149	·
3028 154 Batteries, dry, containing Potassium hydroxide, solid 3030 150 2,2'-Azodi-(2-methyl- butyronitrile) 3031 149 Self-reactive substances, samples, n.o.s. 3032 149 Self-reactive substances, trial quantities, n.o.s. 3033 149 3-Chloro-4-diethylamino- benzenediazonium zinc chloride 3034 149 4-Dipropylaminobenzene- diazonium zinc chloride 3035 150 3-(2-Hydroxyethoxy)-4- pyrrolidin-1-yl benzene- diazonium zinc chloride 3036 150 2,5-Diethoxy-4-morpholino- benzenediazonium zinc chloride 3037 149 4-[Benzyl(ethyl)amino]-3- ethoxybenzenediazonium zinc chloride 3048 157 Aluminum phosphide pesticide 3049 138 Metal alkyl halides, water- reactive, n.o.s. 3049 138 Metal aryl halides, water- reactive, n.o.s. 3050 138 Metal alkyl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, mach aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s.	3027	151		3042	149	sulfochloride
3030 150 2,2'-Azodi-(2-methylbutyronitrile) 3031 149 Self-reactive substances, samples, n.o.s. 3032 149 Self-reactive substances, trial quantities, n.o.s. 3033 149 3-Chloro-4-diethylaminobenzenediazonium zinc chloride 3034 149 4-Dipropylaminobenzenediazonium zinc chloride 3035 150 3-(2-Hydroxyethoxy)-4-pyrrolidin-1-yl benzenediazonium zinc chloride 3036 150 2,5-Diethoxy-4-morpholinobenzenediazonium zinc chloride 3037 149 4-[Benzyl(ethyl)amino]-3-ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride 3049 138 Metal alkyl hydrides, waterreactive, n.o.s. 3050 138 Metal alkyl hydrides, waterreactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, materreactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, materreactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, materreactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s.	3028	154				sulphochloride
3031 149 Self-reactive substances, samples, n.o.s. 3032 149 Self-reactive substances, trial quantities, n.o.s. 3033 149 3-Chloro-4-diethylamino-benzenediazonium zinc chloride 3034 149 4-Dipropylaminobenzenediazonium zinc chloride 3035 150 3-(2-Hydroxyethoxy)-4-pyrrolidin-1-yl benzenediazonium zinc chloride 3036 150 2,5-Diethoxy-4-morpholinobenzenediazonium zinc chloride 3037 149 4-[Benzyl(ethyl)amino]-3-ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride 3048 157 Aluminum phosphide pesticide 3049 138 Metal alkyl halides, water-reactive, n.o.s. 3049 138 Metal aryl halides, water-reactive, n.o.s. 3050 138 Metal alkyl hydrides, water-reactive, n.o.s. 3050 138 Metal aryl hydrides, mater-reactive, n.o.s. 3050 138 Metal aryl hydrides, water-reactive, n.o.s. 3050 138 Metal aryl hydrides, mater-reactive, n.o.s. 3050 138 Metal alkyl halides, n.o	3030	150	2,2'-Azodi-(2-methyl-			sulfochloride
3032 149 Self-reactive substances, trial quantities, n.o.s. 3033 149 3-Chloro-4-diethylamino-benzenediazonium zinc chloride 3034 149 4-Dipropylaminobenzene-diazonium zinc chloride 3035 150 3-(2-Hydroxyethoxy)-4-pyrrolidin-1-yl benzene-diazonium zinc chloride 3036 150 2,5-Diethoxy-4-morpholino-benzenediazonium zinc chloride 3037 149 4-[Benzyl(ethyl)amino]-3-ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium zinc chloride 3039 138 Metal alkyl halides, n.o.s. 3049 138 Metal aryl halides, n.o.s. 3050 138 Metal alkyl hydrides, n.o.s. 3050 138 Metal aryl hydrides, water-reactive, n.o.s. 3050 138 Metal aryl hydrides, water-reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, water-reactive, n.o.s. 3050 138 Metal alkyl halides, n.o.s. 3050 138 Metal alkyl halides, n.o.s. 3050 138 Metal alkyl halides, n.o.s. 3050 138 Metal alkyl hydrides, n.o.s. 3050 138 Metal alkyl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal alkyl hydrides, n.o.s.	3031	149	Self-reactive substances,			sulphochloride
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3034 149 4-Dipropylaminobenzene- diazonium zinc chloride 3035 150 3-(2-Hydroxyethoxy)-4- pyrrolidin-1-yl benzene- diazonium zinc chloride 3036 150 2,5-Diethoxy-4-morpholino- benzenediazonium zinc chloride 3037 149 4-[Benzyl(ethyl)amino]-3- ethoxybenzenediazonium zinc chloride 3049 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, mater- reactive, n.o.s. 3051 135 Metal aryl hydrides, mater- reactive, n.o.s.	3033	149	benzenediazonium	3049	138	
3035 150 3-(2-Hydroxyethoxy)-4- pyrrolidin-1-yl benzene- diazonium zinc chloride 3050 138 Metal alkyl hydrides, n.o.s. 3050 138 Metal alkyl hydrides, water- reactive, n.o.s. 3050 138 Metal alkyl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal alkyl hydrides, water- reactive, n.o.s. 3050 138 Metal alkyl hydrides, mater- 3050 138 Metal aryl hydrides, mater- 3050 138 Metal alkyl hydrides, mater- 305	3034	149	4-Dipropylaminobenzene-	3049	138	
pyrrolidin-1-yl benzene- diazonium zinc chloride 3050 138 Metal alkyl hydrides, water- reactive, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, n.o.s. 3050 138 Metal aryl hydrides, mater- reactive, n.o.s. 3051 135 Aluminum alkyls 3052 135 Aluminum alkyl halides 3053 135 Magnesium alkyls 3053 135 Cyclohexanethiol	2025	450		3050	138	Metal alkyl hydrides, n.o.s.
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benzenediazonium zinc chloride 3050 138 Metal aryl hydrides, waterreactive, n.o.s. 3037 149 4-[Benzyl(ethyl)amino]-3-ethoxybenzenediazonium zinc chloride 3050 138 Metal aryl hydrides, waterreactive, n.o.s. 3051 135 Aluminum alkyls 3052 135 Aluminum alkyl halides 3053 135 Magnesium alkyls 3054 131 Cyclohexanethiol	3036	150	2,5-Diethoxy-4-morpholino-	3050	138	Metal aryl hydrides, n.o.s.
ethoxybenzenediazonium zinc chloride 3052 135 Aluminum alkyl halides 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium 3053 135 Magnesium alkyls 3054 131 Cyclohexanethiol			benzenediazonium	3050	138	
ethoxybenzenediazonium zinc chloride 3052 135 Aluminum alkyl halides 3038 150 4-[Benzyl(methyl)amino]-3-ethoxybenzenediazonium 3054 131 Cyclohexanethiol	3037	149		3051	135	Aluminum alkyls
ethoxybenzenediazonium 3054 131 Cyclohexanethiol						Aluminum alkyl halides
ethoxybenzenediazonium 3054 131 Cyclohexanethiol	3038	150				· ·
			ethoxybenzenediazonium	3054	131	Cyclohexanethiol

	Guio No.	le Name of Material		Guid No.	de Name of Material
054 055		Cyclohexyl mercaptan 2-(2-Aminoethoxy)ethanol	3071	131	Mercaptans, liquid, toxic, flammable, n.o.s.
	129	-	3072	171	Aircraft survival kits
057		Trifluoroacetyl chloride	3072	171	Life-saving appliances, not self-
064		Nitroglycerin, solution in			inflating
		alcohol, with more than 1% but not more than 5%			Vinylpyridines, inhibited Aluminum alkyl hydrides
		Nitroglycerin		171	Environmentally hazardous
065	127	Alcoholic beverages	3077	171	substances, solid, n.o.s.
066	153	Paint (corrosive)	3077	171	Hazardous waste, solid, n.o.s.
066	153	Paint related material (corrosive)	3077	171	Other regulated substances, solid, n.o.s.
070	126	Dichlorodifluoromethane and	3078	138	Cerium, turnings or gritty powder
		Ethylene oxide mixture, with not more than 12.5% Ethylene	3079	131P	Methacrylonitrile, inhibited
		oxide	3080	155	Isocyanate solution, poisonous, flammable, n.o.s.
070	126	Dichlorodifluoromethane and Ethylene oxide mixtures, with not more than 12% Ethylene	3080	155	Isocyanate solution, toxic, flammable, n.o.s.
		oxide	3080	155	Isocyanate solutions, n.o.s.
070	126	Ethylene oxide and	3080	155	Isocyanates, n.o.s.
		Dichlorodifluoromethane mixture, with not more than 12.5% Ethylene oxide	3080	155	Isocyanates, poisonous, flammable, n.o.s.
070	126	Ethylene oxide and Dichlorodifluoromethane	3080	155	Isocyanates, toxic, flammable, n.o.s.
		mixtures, with not more than 12% Ethylene oxide	3082	171	Environmentally hazardous substances, liquid, n.o.s.
071	131	Mercaptan mixture, liquid,	3082	171	, , ,
0.71	111	poisonous, flammable, n.o.s.	3082	171	Other regulated substances, liquid, n.o.s.
1071	131	Mercaptan mixture, liquid, toxic, flammable, n.o.s.	3083	124	Perchloryl fluoride
071	131	Mercaptan mixtures, liquid,			Corrosive solid, oxidizing, n.o.s.
		n.o.s.	3085		Oxidizing solid, corrosive, n.o.s.
071	131	Mercaptans, liquid, n.o.s.	3085		Oxidizing substances, solid,
071	131	Mercaptans, liquid, poisonous, flammable, n.o.s.			corrosive, n.o.s.
		ammabio; mois.	3086		Poisonous solid, oxidizing, n.o.s.
			3086	141	Toxic solid, oxidizing, n.o.s.

ID No.	Guid No.	de Name of Material	ID No.	Guio No:	
3087	141	Oxidizing solid, poisonous, n.o.s.	3099	142	Oxidizing liquid, toxic, n.o.s.
3087	141	Oxidizing solid, toxic, n.o.s.	3099	142	Oxidizing substances, liquid,
3087	141	Oxidizing substances, solid,	0000	440	poisonous, n.o.s.
2007	1 1 1	poisonous, n.o.s.	3099	142	Oxidizing substances, liquid, toxic, n.o.s.
3087	141	Oxidizing substances, solid, toxic, n.o.s.	3100	135	Oxidizing solid, self-heating,
3088	135	Self-heating solid, organic, n.o.s.			n.o.s.
3088	135	Self-heating substances, solid, n.o.s.	3100	135	Oxidizing substances, self- heating, n.o.s.
3089	170	Metal powder, flammable, n.o.s.	3100	135	Oxidizing substances, solid, self-heating, n.o.s.
3090	138	Lithium batteries	3101	1/16	Organic peroxide type B, liquid
3090	138	Lithium batteries, liquid or solid	3101		Organic peroxide type B, nquid
2001	120	cathode	3103		Organic peroxide type C, liquid
3091	138	Lithium batteries contained in equipment	3104		Organic peroxide type C, solid
3091	138	Lithium batteries packed with	3105	145	Organic peroxide type D, liquid
		equipment	3106	145	Organic peroxide type D, solid
3092		1-Methoxy-2-propanol	3107	145	Organic peroxide type E, liquid
3093		Corrosive liquid, oxidizing, n.o.s.	3108	145	Organic peroxide type E, solid
3094	138	Corrosive liquid, water-reactive, n.o.s.	3109	145	Organic peroxide type F, liquid
3094	138	Corrosive liquid, which in	3110	145	Organic peroxide type F, solid
0071		contact with water emits flammable gases, n.o.s.	3111	148	Organic peroxide type B, liquid, temperature controlled
3095	136	Corrosive solid, self-heating, n.o.s.	3112	148	Organic peroxide type B, solid, temperature controlled
3096	138	Corrosive solid, water-reactive, n.o.s.	3113	148	Organic peroxide type C, liquid, temperature controlled
3096	138	Corrosive solid, which in contact with water emits flammable	3114	148	Organic peroxide type C, solid, temperature controlled
		gases, n.o.s.	3115	148	Organic peroxide type D, liquid,
3097		Flammable solid, oxidizing, n.o.s.	0444	440	temperature controlled
3098		Oxidizing liquid, corrosive, n.o.s.	3116	148	Organic peroxide type D, solid, temperature controlled
3098	140	Oxidizing substances, liquid, corrosive, n.o.s.	3117	148	Organic peroxide type E, liquid, temperature controlled
3099	142	Oxidizing liquid, poisonous, n.o.s.			temperature controlleu
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D Gui No. No		ID No.	Guid No.	
3118 148	Organic peroxide type E, solid, temperature controlled	3123	139	Poisonous liquid, which in contact with water emits
3119 148	Organic peroxide type F, liquid, temperature controlled			flammable gases, n.o.s. (Inhalation Hazard Zone B)
3120 148	Organic peroxide type F, solid, temperature controlled			Toxic liquid, water-reactive, n.o.s.
	Oxidizing solid, water-reactive, n.o.s.	3123	139	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)
	Oxidizing substances, solid, which in contact with water emit flammable gases, n.o.s.	3123	139	Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)
	Poisonous liquid, oxidizing, n.o.s.	3123	139	Toxic liquid, which in contact with water emits flammable
5122 142	Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	3123	139	gases, n.o.s. Toxic liquid, which in contact with water emits flammable
3122 142	Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)			gases, n.o.s. (Inhalation Hazard Zone A)
3122 142	Toxic liquid, oxidizing, n.o.s.	3123	139	Toxic liquid, which in contact with water emits flammable
3122 142	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)			gases, n.o.s. (Inhalation Hazard Zone B)
3122 142	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	3124	136	Poisonous solid, self-heating, n.o.s.
3123 139	Poisonous liquid, water- reactive, n.o.s.	3124 3125		Toxic solid, self-heating, n.o.s. Poisonous solid, water-reactive,
3123 139	Poisonous liquid, water- reactive, n.o.s. (Inhalation			n.o.s.
2122 422	Hazard Zone A)	3125	139	contact with water emits
3123 139	Poisonous liquid, water- reactive, n.o.s. (Inhalation Hazard Zone B)	3125	139	flammable gases, n.o.s. Toxic solid, water-reactive, n.o.s.
3123 139	Poisonous liquid, which in contact with water emits flammable gases, n.o.s.	3125	139	Toxic solid, which in contact with water emits flammable gases, n.o.s.
3123 139	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)	3126	136	Self-heating solid, corrosive, organic, n.o.s.

ID No.	Guid No.		ID No.	Guid No.	
3126	136	Self-heating substance, solid, corrosive, n.o.s.	3130	139	Water-reactive substances, liquid, toxic, n.o.s.
3127	135	Self-heating solid, oxidizing, n.o.s.	3131	138	Substances, which in contact with water emit flammable
3127	135	Self-heating substances, solid, oxidizing, n.o.s.	3131	138	gases, solid, corrosive, n.o.s. Water-reactive solid, corrosive,
3128		Self-heating solid, organic, poisonous, n.o.s.	3131	138	n.o.s. Water-reactive substances, solid, corrosive, n.o.s.
3128	136	Self-heating solid, organic, toxic, n.o.s.	3132	138	
3128		Self-heating solid, poisonous, organic, n.o.s.			gases, solid, flammable, n.o.s.
3128		Self-heating solid, toxic, organic, n.o.s.	3132	138	Water-reactive solid, flammable, n.o.s.
3128		Self-heating substances, solid, poisonous, n.o.s.	3132	138	Water-reactive substances, solid, flammable, n.o.s.
3128		Self-heating substances, solid, toxic, n.o.s.	3133	138	Substances, which in contact with water emit flammable
3129	138	Substances, which in contact with water emit flammable gases, liquid, corrosive, n.o.s.	3133	138	gases, solid, oxidizing, n.o.s. Water-reactive solid, oxidizing,
3129	138	Water-reactive liquid, corrosive, n.o.s.	3133	138	n.o.s. Water-reactive substances,
3129	138	Water-reactive substances, liquid, corrosive, n.o.s.	3134	139	solid, oxidizing, n.o.s. Substances, which in contact
3130	139	Substances, which in contact with water emit flammable			with water emit flammable gases, solid, poisonous, n.o.s.
3130	120	gases, liquid, poisonous, n.o.s. Substances, which in contact	3134	139	with water emit flammable
3130	137	with water emit flammable gases, liquid, toxic, n.o.s.	3134	139	
3130	139	Water-reactive liquid, poisonous, n.o.s.			n.o.s. Water-reactive solid, toxic, n.o.s.
3130	139	Water-reactive liquid, toxic, n.o.s.		139	solid, poisonous, n.o.s.
3130	139	Water-reactive substances, liquid, poisonous, n.o.s.	3134	139	Water-reactive substances, solid, toxic, n.o.s.
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ID G	uide Name of Material	ID Guide Name of Material No. No.
3135 1	38 Substances, which in contact with water emit flammable gases,	3141 157 Antimony compound, inorganic, liquid, n.o.s.
3135 1	solid, self-heating, n.o.s. 38 Water-reactive solid, self-	3142 151 Disinfectant, liquid, poisonous, n.o.s.
3135 1	heating, n.o.s. Water-reactive substances, solid, self-heating, n.o.s.	3142 151 Disinfectant, liquid, toxic, n.o.s. 3142 151 Disinfectants, liquid, n.o.s.
3136 1	20 Trifluoromethane, refrigerated liquid	(poisonous) 3143 151 Dye, solid, poisonous, n.o.s.
	40 Oxidizing solid, flammable, n.o.s.	3143 151 Dye, solid, toxic, n.o.s. 3143 151 Dye intermediate, solid,
	40 Oxidizing substances, solid, flammable, n.o.s.	poisonous, n.o.s. 3143 151 Dye intermediate, solid, toxic,
3138	16 Acetylene, Ethylene and Propylene in mixture, refrigerated liquid containing	n.o.s. 3144 151 Nicotine compound, liquid, n.o.s.
	at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than	3144 151 Nicotine preparation, liquid, n.o.s.
3138 1	6% Propylene 16 Ethylene, Acetylene and Propylene in mixture,	3145 153 Alkyl phenols, liquid, n.o.s. (including C2-C12 homologues)
	refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5%	3146 153 Organotin compound, solid, n.o.s.
	Acetylene and not more than 6% Propylene	3147 154 Dye, solid, corrosive, n.o.s. 3147 154 Dye intermediate, solid,
3138 1	16 Propylene, Ethylene and Acetylene in mixture,	corrosive, n.o.s.
	refrigerated liquid containing at least 71.5% Ethylene with	3148 138 Substances, which in contact with water emit flammable gases, liquid, n.o.s.
	not more than 22.5% Acetylene and not more than	3148 138 Water-reactive liquid, n.o.s.
2120 1	6% Propylene	3148 138 Water-reactive substances, liquid, n.o.s.
	40 Oxidizing liquid, n.o.s.40 Oxidizing substances, liquid, n.o.s.	3149 140 Hydrogen peroxide and Peroxyacetic acid mixture,
3140 1	51 Alkaloids, liquid, n.o.s. (poisonous)	with acid(s), water and not more than 5% Peroxyacetic acid, stabilized
3140 1	51 Alkaloid salts, liquid, n.o.s. (poisonous)	3150 115 Devices, small, hydrocarbon gas powered, with release device

ID No.	Guid No.	de Name of Material	ID No.	Gui No	
3150	115	Hydrocarbon gas refills for small devices, with release device	3160	119	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard
3151	171	Polyhalogenated biphenyls, liquid	3160	119	Zone A) Liquefied gas, toxic, flammable,
3151	171	Polyhalogenated terphenyls, liquid	0.00		n.o.s. (Inhalation Hazard Zone B)
3152	171	Polyhalogenated biphenyls, solid	3160	119	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)
3152	171	Polyhalogenated terphenyls, solid	3160	119	Liquefied gas, toxic, flammable,
3153	115	Perfluoromethyl vinyl ether			n.o.s. (Inhalation Hazard Zone D)
3153	115	Perfluoro(methyl vinyl ether)	3161	115	Liquefied gas, flammable, n.o.s.
3154	115	Perfluoroethyl vinyl ether	3162	123	Liquefied gas, poisonous, n.o.s.
3154	115	Perfluoro(ethyl vinyl ether)	3162	123	
3155	154	Pentachlorophenol			(Inhalation Hazard Zone A)
3156	122	Compressed gas, oxidizing, n.o.s.	3162	123	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)
3157	122	Liquefied gas, oxidizing, n.o.s.	3162	123	Liquefied gas, poisonous, n.o.s.
3158	120	Gas, refrigerated liquid, n.o.s.	21/2	400	(Inhalation Hazard Zone C)
3159	126	Refrigerant gas R-134a	3162	123	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)
3159		1,1,1,2-Tetrafluoroethane	3162	123	Liquefied gas, toxic, n.o.s.
3160		Liquefied gas, poisonous, flammable, n.o.s.	3162		Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)
3160	119	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	3162	123	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)
3160	119	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation	3162	123	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)
		Hazard Zone B)	3162	123	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)
3160	119	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation	3163	126	Liquefied gas, n.o.s.
		Hazard Zone C)			Articles, pressurized, hydraulic
3160	119	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation	2.01		(containing non-flammable gas)
		Hazard Zone D)	3164	126	
3160	119	Liquefied gas, toxic, flammable, n.o.s.			(containing non-flammable gas)

ID No.	Guid No.		ID No.	Guid No.	
3165	131	Aircraft hydraulic power unit fuel tank	3172	153	Toxins, extracted from living sources, liquid, n.o.s.
3166	128	Engines, internal combustion, flammable gas powered	3172	153	Toxins, extracted from living sources, n.o.s.
3166	128	Engines, internal combustion, flammable liquid powered	3172	153	Toxins, extracted from living sources, solid, n.o.s.
3166	128	Engines, internal combustion,	3174	135	Titanium disulfide
		including when fitted in machinery or vehicles	3174	135	Titanium disulphide
3166	128	Vehicle, flammable gas powered	3175	133	Solids containing flammable liquid, n.o.s.
3166	128	Vehicle, flammable liquid powered	3176	133	Flammable solid, organic, molten, n.o.s.
3167	115	Gas sample, non-pressurized, flammable, n.o.s., not	3178	133	Flammable solid, inorganic, n.o.s.
		refrigerated liquid	3178	133	Smokeless powder for small arms
3168	119	Gas sample, non-pressurized, poisonous, flammable, n.o.s., not refrigerated liquid	3179	134	Flammable solid, poisonous, inorganic, n.o.s.
3168	119	Gas sample, non-pressurized, toxic, flammable, n.o.s., not	3179		Flammable solid, toxic, inorganic, n.o.s.
21/0	100	refrigerated liquid	3180	134	Flammable solid, corrosive, inorganic, n.o.s.
3109	123	Gas sample, non-pressurized, poisonous, n.o.s., not refrigerated liquid	3180	134	Flammable solid, inorganic, corrosive, n.o.s.
3169	123	Gas sample, non-pressurized, toxic, n.o.s., not refrigerated	3181	133	Metal salts of organic compounds, flammable, n.o.s.
2170	120	liquid	3182	170	Metal hydrides, flammable, n.o.s.
	138	Aluminum dross	3183	135	Self-heating liquid, organic, n.o.s.
	138	Aluminum processing by-products	3184	136	Self-heating liquid, poisonous, organic, n.o.s.
	138	Aluminum remelting by-products	3184	136	Self-heating liquid, toxic,
	138	Aluminum smelting by-products			organic, n.o.s.
31/1	154	Battery-powered equipment (wet battery)	3185	136	Self-heating liquid, corrosive, organic, n.o.s.
3171	154	Battery-powered vehicle (wet battery)	3186	135	Self-heating liquid, inorganic, n.o.s.
3171	154	Wheelchair, electric, with batteries	3187	136	Self-heating liquid, poisonous, inorganic, n.o.s.

ID G No. I	Suic No.	de Name of Material	ID No.	Gui No	
3187 1	136	Self-heating liquid, toxic, inorganic, n.o.s.	3208	138	Metallic substance, water- reactive, n.o.s.
3188 1	136	Self-heating liquid, corrosive, inorganic, n.o.s.	3209	138	Metallic substance, water- reactive, self-heating, n.o.s.
3189 1	135	Metal powder, self-heating, n.o.s.	3210	140	Chlorates, inorganic, aqueous
3189 1	135	Self-heating metal powders, n.o.s.			solution, n.o.s.
3190 1	135	Self-heating solid, inorganic, n.o.s.	3211	140	Perchlorates, inorganic, aqueous solution, n.o.s.
3191 1	136	Self-heating solid, inorganic,	3212	140	Hypochlorites, inorganic, n.o.s.
3191 1	136	poisonous, n.o.s. Self-heating solid, inorganic,	3213	140	Bromates, inorganic, aqueous solution, n.o.s.
3191 1		toxic, n.o.s. Self-heating solid, poisonous,	3214	140	Permanganates, inorganic, aqueous solution, n.o.s.
3171	130	inorganic, n.o.s.	3215	140	Persulfates, inorganic, n.o.s.
3191 1	136	Self-heating solid, toxic,	3215	140	Persulphates, inorganic, n.o.s.
		inorganic, n.o.s.	3216	140	Persulfates, inorganic, aqueous
3192 1	136	Self-heating solid, corrosive,			solution, n.o.s.
3194 1	135	inorganic, n.o.s. Pyrophoric liquid, inorganic, n.o.s.	3216	140	Persulphates, inorganic, aqueous solution, n.o.s.
3200 1	135	Pyrophoric solid, inorganic, n.o.s.	3217	140	Percarbonates, inorganic, n.o.s.
3203 1	135	Pyrophoric organometallic compound, n.o.s.	3218	140	Nitrates, inorganic, aqueous solution, n.o.s.
3203 1	135	Pyrophoric organometallic compound, water-reactive,	3219	140	Nitrites, inorganic, aqueous solution, n.o.s.
		n.o.s.	3220	126	Pentafluoroethane
3205 1	135	Alkaline earth metal	3220	126	Refrigerant gas R-125
3206 1	124	alcoholates, n.o.s. Alkali metal alcoholates, self-	3221	149	Self-reactive liquid type B
3200 I	130	heating, corrosive, n.o.s.	3222	149	Self-reactive solid type B
3207 1	138	Organometallic compound,	3223	149	Self-reactive liquid type C
		water-reactive, flammable,	3224	149	Self-reactive solid type C
		n.o.s.	3225	149	Self-reactive liquid type D
3207 1	138	Organometallic compound dispersion, water-reactive,	3226	149	Self-reactive solid type D
		flammable, n.o.s.	3227	149	Self-reactive liquid type E
3207 1	138	Organometallic compound	3228	149	Self-reactive solid type E
		solution, water-reactive, flammable, n.o.s.	3229	149	Self-reactive liquid type F
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ID (Guid No.		ID No.		de Name of Material
3230 3231		Self-reactive solid type F Self-reactive liquid type B,	3248	131	Medicine, liquid, flammable, toxic, n.o.s.
3232 3233 3234	150 150 150 150 150 150	self-reactive liquid type B, temperature controlled Self-reactive solid type B, temperature controlled Self-reactive liquid type C, temperature controlled Self-reactive solid type C, temperature controlled Self-reactive liquid type D, temperature controlled Self-reactive solid type D, temperature controlled Self-reactive liquid type E, temperature controlled Self-reactive solid type E, temperature controlled	3249 3250 3251 3252 3252 3253 3253 3254 3254 3255	115154154135	Isosorbide-5-mononitrate Difluoromethane Refrigerant gas R-32 Disodium trioxosilicate Disodium trioxosilicate, pentahydrate Tributylphosphane Tributylphosphine tert-Butyl hypochlorite Elevated temperature liquid,
3239 3240 3241	150 133	Self-reactive liquid type F, temperature controlled Self-reactive solid type F, temperature controlled 2-Bromo-2-nitropropane-1,3-diol	3256	128	flammable, n.o.s., with flash point above 37.8°C (100°F), at or above its flash point Elevated temperature liquid, flammable, n.o.s., with flash point above 60.5°C (141°F), at or above its flash point
3242 3243 3243	151	Azodicarbonamide Solids containing poisonous liquid, n.o.s. Solids containing toxic liquid,	3257	128	Elevated temperature liquid, n.o.s., at or above 100°C (212°F)and below its flash point
3244	154	n.o.s. Solids containing corrosive liquid, n.o.s.	3258		Elevated temperature solid, n.o.s., at or above 240°C (464°F)
3245	171	Genetically modified micro- organisms	3259 3259		Amines, solid, corrosive, n.o.s. Polyamines, solid, corrosive, n.o.s.
	156	Methanesulfonyl chloride	3260	154	Corrosive solid, acidic,
3246 3247	156 140	Methanesulphonyl chloride Sodium peroxoborate, anhydrous	3261	154	inorganic, n.o.s. Corrosive solid, acidic, organic, n.o.s.
3248	131	Medicine, liquid, flammable, poisonous, n.o.s.	3262	154	Corrosive solid, basic, inorganic, n.o.s.

ID No.	Guid No.		ID No.	Guio No	
3263	154	Corrosive solid, basic, organic, n.o.s.	3278	151	Organophosphorus compound, poisonous, n.o.s.
3264	154	Corrosive liquid, acidic, inorganic, n.o.s.	3278	151	Organophosphorus compound, toxic, n.o.s.
3265	153	Corrosive liquid, acidic, organic, n.o.s.	3279	131	Organophosphorus compound, poisonous, flammable, n.o.s.
3266	154	Corrosive liquid, basic, inorganic, n.o.s.	3279	131	Organophosphorus compound, toxic, flammable, n.o.s.
3267	153	Corrosive liquid, basic, organic, n.o.s.	3280		Organoarsenic compound, n.o.s.
3268	171	Air bag inflators	3281	151	Metal carbonyls, n.o.s.
	171	Air bag inflators, pyrotechnic	3282	151	Organometallic compound, poisonous, n.o.s.
	171	Air bag modules	3282	151	Organometallic compound, toxic, n.o.s.
3268	171	Air bag modules, pyrotechnic	3283	151	Selenium compound, n.o.s.
		Seat-belt modules	3284		Tellurium compound, n.o.s.
3268		Seat-belt pre-tensioners	3285		•
3268	171	Seat-belt pre-tensioners, pyrotechnic	3286		Vanadium compound, n.o.s. Flammable liquid, poisonous,
3269	127	Polyester resin kit	0001	404	corrosive, n.o.s.
3270	133	Nitrocellulose membrane filters	3286	131	Flammable liquid, toxic, corrosive, n.o.s.
3271	127	Ethers, n.o.s.	3287	151	Poisonous liquid, inorganic,
3272	127	Esters, n.o.s.	3207		n.o.s.
3273	131	Nitriles, flammable, poisonous, n.o.s.	3287	151	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard
3273	131	Nitriles, flammable, toxic, n.o.s.			Zone A)
3274	127	Alcoholates solution, n.o.s., in alcohol	3287	151	n.o.s. (Inhalation Hazard
3275	131	Nitriles, poisonous, flammable, n.o.s.	3287	151	Zone B) Toxic liquid, inorganic, n.o.s.
3275	131	Nitriles, toxic, flammable, n.o.s.	3287	151	Toxic liquid, inorganic, n.o.s.
3276	151	Nitriles, poisonous, n.o.s.			(Inhalation Hazard Zone A)
3276	151	Nitriles, toxic, n.o.s.	3287	151	Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)
3277	154	Chloroformates, poisonous, corrosive, n.o.s.	3288	151	Poisonous solid, inorganic,
3277	154	Chloroformates, toxic, corrosive, n.o.s.	3288	151	n.o.s. Toxic solid, inorganic, n.o.s.

ID No.	Guio No.		ID No.	Guid No.	
3289	154	Poisonous liquid, corrosive, inorganic, n.o.s.	3297	126	Ethylene oxide mixture, with
3289	154	Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)	3297	126	not more than 8.8% Ethylene oxide Ethylene oxide and
3289	154	Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)	3277	120	Chlorotetrafluoroethane mixture, with not more than 8.8% Ethylene oxide
3289	154	Toxic liquid, corrosive, inorganic, n.o.s.	3298	126	Ethylene oxide and Pentafluoroethane mixture, with not more than 7.9%
3289	154	Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)	3298	126	Ethylene oxide Pentafluoroethane and Ethylene
3289	154	Toxic liquid, corrosive,			oxide mixture, with not more than 7.9% Ethylene oxide
		inorganic, n.o.s. (Inhalation Hazard Zone B)	3299	126	Ethylene oxide and Tetrafluoroethane mixture,
3290	154	Poisonous solid, corrosive, inorganic, n.o.s.			with not more than 5.6% Ethylene oxide
3290	154	Toxic solid, corrosive, inorganic, n.o.s.	3299	126	Tetrafluoroethane and Ethylene oxide mixture, with not more
3291		(Bio)Medical waste, n.o.s.			than 5.6% Ethylene oxide
3291	158	Clinical waste, unspecified, n.o.s.	3300	119P	Carbon dioxide and Ethylene oxide mixture, with more than 87% Ethylene oxide
3291		Medical waste, n.o.s.	3300	119P	P Ethylene oxide and Carbon
32913292	158 138	Regulated medical waste, n.o.s. Batteries, containing Sodium		,.	dioxide mixture, with more than 87% Ethylene oxide
3292	138	Cells, containing Sodium	3301	136	Corrosive liquid, self-heating,
3293	152	Hydrazine, aqueous solution,			n.o.s.
		with not more than 37% Hydrazine	3302		2-Dimethylaminoethyl acrylate
3294	131	Hydrogen cyanide, solution in	3303	124	Compressed gas, poisonous, oxidizing, n.o.s.
		alcohol, with not more than 45% Hydrogen cyanide	3303	124	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation
3295	128	Hydrocarbons, liquid, n.o.s.			Hazard Zone A)
3296 3296	126 126	Heptafluoropropane Refrigerant gas R-227	3303	124	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)

ID Gui No. No		ID No.	Gui No	
3303 124	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	3304	123	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)
3303 124	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	3304	123	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)
3303 124	oxidizing, n.o.s.	3304	123	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)
3303 124	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)	3305	119	Compressed gas, poisonous, flammable, corrosive, n.o.s.
3303 124	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	3305	119	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)
3303 124	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)	3305	119	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)
3303 124	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	3305	119	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)
3304 123	corrosive, n.o.s.	3305	119	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)
3304 123	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)	3305	119	Compressed gas, toxic, flammable, corrosive, n.o.s.
3304 123	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)	3305	119	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)
3304 123	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)	3305	119	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)
3304 123	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	3305	119	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)
3304 123	corrosive, n.o.s.	3305	119	Compressed gas, toxic, flammable, corrosive, n.o.s.
3304 123	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)	3306	124	(Inhalation Hazard Zone D) Compressed gas, poisonous, oxidizing, corrosive, n.o.s.
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ID Gui No. No		ID Guide Name of Material No. No.
3306 124	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	3307 124 Liquefied gas, toxic, oxidizing, n.o.s. 3307 124 Liquefied gas, toxic, oxidizing,
3306 124	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	n.o.s. (Inhalation Hazard Zone A)
3306 124	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	3307 124 Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)
3306 124	Compressed gas, poisonous, oxidizing, corrosive, n.o.s.	3307 124 Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)
3306 124	(Inhalation Hazard Zone D) Compressed gas, toxic, oxidizing, corrosive, n.o.s.	3307 124 Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)
3306 124	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	3308 123 Liquefied gas, poisonous, corrosive, n.o.s. 3308 123 Liquefied gas, poisonous,
3306 124	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	corrosive, n.o.s. (Inhalation Hazard Zone A)
3306 124	Compressed gas, toxic, oxidizing, corrosive, n.o.s.	3308 123 Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)
3306 124	oxidizing, corrosive, n.o.s.	3308 123 Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)
3307 124	(Inhalation Hazard Zone D) Liquefied gas, poisonous, oxidizing, n.o.s.	3308 123 Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)
3307 124	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)	3308 123 Liquefied gas, toxic, corrosive, n.o.s.
3307 124	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	3308 123 Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)
3307 124	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation	3308 123 Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)
3307 124	Hazard Zone C) Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	3308 123 Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)

ID Guide Name of Material No. No.	ID Guide Name of Material No. No.
3308 123 Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)	3310 124 Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)
3309 119 Liquefied gas, poisonous, flammable, corrosive, n.o.s.	3310 124 Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)
3309 119 Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	3310 124 Liquefied gas, toxic, oxidizing, corrosive, n.o.s.
3309 119 Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	3310 124 Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)
3309 119 Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	3310 124 Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)
3309 119 Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	3310 124 Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)
3309 119 Liquefied gas, toxic, flammable, corrosive, n.o.s.	3310 124 Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)
3309 119 Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	3311 122 Gas, refrigerated liquid, oxidizing, n.o.s.
3309 119 Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	3312 115 Gas, refrigerated liquid, flammable, n.o.s.
,	3313 135 Organic pigments, self-heating
3309 119 Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation	3314 171 Plastic molding compound
Hazard Zone C)	3314 171 Plastics moulding compound
3309 119 Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation	3315 151 Chemical sample, poisonous liquid
Hazard Zone D) 3310 124 Liquefied gas, poisonous,	3315 151 Chemical sample, poisonous solid
oxidizing, corrosive, n.o.s.	3315 151 Chemical sample, toxic liquid
3310 124 Liquefied gas, poisonous,	3315 151 Chemical sample, toxic solid
oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	3316 171 Chemical kit
3310 124 Liquefied gas, poisonous,	3316 171 First aid kit
oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	3317 113 2-Amino-4,6-dinitrophenol, wetted with not less than 20% water

ID No.	Guid No.		ID No.	Guid No.	
		Ammonia solution, with more than 50% Ammonia	3331	165	Radioactive material, transported under special arrangement, fissile
3319	113	Nitroglycerin mixture, desensitized, solid, n.o.s., with more than 2% but not	3332	164	Radioactive material, Type A package, special form
3319	113	more than 10% Nitroglycerin Nitroglycerin mixture with more	3333	165	Radioactive material, Type A package, special form, fissile
		than 2% but not more than	3334	171	Aviation regulated liquid, n.o.s.
		10% Nitroglycerin, desensitized	3335	171	Aviation regulated solid, n.o.s.
3320	157	Sodium borohydride and Sodium hydroxide solution, with not	3336	130	Mercaptan mixture, liquid, flammable, n.o.s.
		more than 12% Sodium borohydride and not more	3336	130	Mercaptans, liquid, flammable, n.o.s.
2221	1/0	than 40% Sodium hydroxide	3337	126	Refrigerant gas R-404A
3321	162	Radioactive material, low specific activity (LSA-II)	3338	126	Refrigerant gas R-407A
3322	162	Radioactive material, low	3339	126	Refrigerant gas R-407B
		specific activity (LSA-III)	3340	126	Refrigerant gas R-407C
3323	163	Radioactive material, Type C	3341	135	Thiourea dioxide
	4.5	package	3342	135	Xanthates
		Radioactive material, low specific activity (LSA-II), fissile	3343	113	Nitroglycerin mixture, desensitized, liquid,
3325	165	Radioactive material, low specific activity (LSA-III), fissile			flammable, n.o.s., with not more than 30% Nitroglycerin
3326	165	Radioactive material, surface contaminated objects (SCO-I), fissile	3344	113	Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s., with more than 10% but not more than 20% PETN
3326	165	Radioactive material, surface contaminated objects (SCO-II), fissile	3345	153	Phenoxyacetic acid derivative pesticide, solid, poisonous
3327	165	Radioactive material, Type A package, fissile	3345	153	Phenoxyacetic acid derivative pesticide, solid, toxic
3328	165	Radioactive material, Type B(U) package, fissile	3346	131	Phenoxyacetic acid derivative pesticide, liquid, flammable, poisonous
3329	165	Radioactive material, Type B(M) package, fissile	3346	131	Phenoxyacetic acid derivative
3330	165	Radioactive material, Type C package, fissile			pesticide, liquid, flammable, toxic

ID No.	Guid No.		ID No.	Gui No	
3347	131	Phenoxyacetic acid derivative pesticide, liquid, poisonous, flammable	3355	119	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)
3347	131	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable	3355	119	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)
3348	153	Phenoxyacetic acid derivative pesticide, liquid, poisonous	3355	119	Insecticide gas, toxic, flammable, n.o.s.
3348	153	Phenoxyacetic acid derivative pesticide, liquid, toxic	3355	119	Insecticide gas, toxic, flammable, n.o.s. (Inhalation
3349	151	Pyrethroid pesticide, solid, poisonous	3355	119	Hazard Zone A) Insecticide gas, toxic,
3349		Pyrethroid pesticide, solid, toxic			flammable, n.o.s. (Inhalation Hazard Zone B)
3350	131	Pyrethroid pesticide, liquid, flammable, poisonous	3355	119	Insecticide gas, toxic, flammable, n.o.s. (Inhalation
3350	131	Pyrethroid pesticide, liquid, flammable, toxic	0.055	110	Hazard Zone C)
3351	131	Pyrethroid pesticide, liquid, poisonous, flammable	3355	119	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)
3351	131	Pyrethroid pesticide, liquid, toxic, flammable		140	, , ,
3352	151	Pyrethroid pesticide, liquid, poisonous	3357	113	Nitroglycerin mixture, desensitized, liquid, n.o.s., with not more than 30%
3352		Pyrethroid pesticide, liquid, toxic			Nitroglycerin
33533353		Air bag inflators, compressed gas Air bag modules, compressed gas	3358	115	Refrigerating machines containing flammable, non- toxic, liquefied gas
3353	126	Seat-belt pre-tensioners, compressed gas	8000	171	Consumer commodity
3354	115	Insecticide gas, flammable, n.o.s.	8001	171	Dangerous goods in apparatus
	119	Insecticide gas, poisonous,	8001	171	Dangerous goods in machinery
3333	117	flammable, n.o.s.	8013	171	Gas generator assemblies
3355	119	Insecticide gas, poisonous,	8023	115	Refrigerating machines
		flammable, n.o.s. (Inhalation	8027	171	Other regulated substance
2255	110	Hazard Zone A)	8037	140	Oxygen generators, small
3333	119	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation	8038	171	Heat producing article
		Hazard Zone B)	9011	133	Camphene
			9018	160	Dichlorodifluoroethylene

ID Gui	de Name of Material	ID	Guid	de Name of Material
No. No		No.	No.	
9026 153	Dinitrocyclohexylphenol	9103	171	Cobaltous bromide
9035 123	Gas identification set	9104	171	Cobaltous formate
9037 151	Hexachloroethane	9105	171	Cobaltous sulfamate
9069 132	Tetramethylmethylenediamine	9105	171	Cobaltous sulphamate
9073 113	Trinitroaniline, wetted	9106	171	Cupric acetate
9077 153	Adipic acid	9109	171	Cupric sulfate
9078 171	Aluminum sulfate, solid	9109	171	Cupric sulphate
9078 171	Aluminum sulphate, solid	9110	171	Cupric sulfate, ammoniated
9079 171	Ammonium acetate	9110	171	Cupric sulphate, ammoniated
9080 171	Ammonium benzoate	9111	171	Cupric tartrate
9081 171	Ammonium bicarbonate	9117	171	EDTA
9083 154	Ammonium carbamate	9117	171	Ethylenediaminetetraacetic acid
9084 154	Ammonium carbonate	9118	171	Ferric ammonium citrate
9085 171	Ammonium chloride	9119	171	Ferric ammonium oxalate
9086 143	Ammonium chromate	9120	171	Ferric fluoride
9087 171	Ammonium citrate, dibasic	9121	171	Ferric sulfate
9088 154	Ammonium fluoborate	9121	171	Ferric sulphate
9089 171	Ammonium sulfamate	9122	171	Ferrous ammonium sulfate
9089 171	Ammonium sulphamate	9122	171	Ferrous ammonium sulphate
9090 171	Ammonium sulfite	9125	171	Ferrous sulfate
9090 171	Ammonium sulphite	9125	171	Ferrous sulphate
9091 171	Ammonium tartrate	9126	171	Fumaric acid
9094 153	Benzoic acid	9127	171	Isopropanolamine
9095 171	n-Butyl phthalate	0107	171	dodecylbenzenesulfonate
	Calcium chromate	9127	1/1	Isopropanolamine dodecylbenzenesulphonate
9097 171	Calcium dodecylbenzenesulfonate	9134	171	Lithium chromate
9097 171	-	9137	171	Naphthenic acid
7077 171	dodecylbenzenesulphonate	9138	171	Nickel ammonium sulfate
9100 171	Chromic sulfate	9138		Nickel ammonium sulphate
9100 171	Chromic sulphate	9139	151	Nickel chloride
9101 171	·	9140	154	Nickel hydroxide
9102 171	Chromous chloride	9141	154	Nickel sulfate
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ID No.	Guid No.		ID No.	Guio No:	
9141	154	Nickel sulphate	9188	171	Hazardous substance, liquid,
9142	171	Potassium chromate			n.o.s.
9145	171	Sodium chromate	9188	171	Hazardous substance, solid, n.o.s.
9146	171	Sodium	9188	171	
		dodecylbenzenesulfonate (branched chain)	9188		·
9146	171	Sodium	9189	171	Hazardous waste, liquid, n.o.s.
		dodecylbenzenesulphonate	9189	171	Hazardous waste, solid, n.o.s.
0147	171	(branched chain)	9190	143	Ammonium permanganate
9147		Sodium phosphate, dibasic	9191	143	Chlorine dioxide, hydrate, frozen
	171	Sodium phosphate, tribasic	9192	167	Fluorine, refrigerated liquid
9149 9151		Strontium chromate Triethanolamine			(cryogenic liquid)
9131	171	dodecylbenzenesulfonate	9193		
9151	171	Triethanolamine	9194		
		dodecylbenzenesulphonate	9195		, , , ,
9153	171	Zinc acetate	9199	142	Oxidizer, poisonous, liquid, n.o.s.
9154	171	Zinc ammonium chloride	9200	141	Oxidizer, poisonous, solid,
9155	171	Zinc borate	7200	171	n.o.s.
9156	171	Zinc bromide	9201	171	Antimony trioxide
9157	171	Zinc carbonate	9202	168	Carbon monoxide, refrigerated
9158	151	Zinc fluoride			liquid (cryogenic liquid)
9159	171	Zinc formate			Methyl phosphonic dichloride
9160		Zinc phenolsulfonate	9259	128	Elevated temperature material,
	171	Zinc phenolsulphonate			liquid, n.o.s., (at or above 100°C (212°F) and below its
9161		Zinc sulfate			flash point)
9161	171	Zinc sulphate	9260	169	Aluminum, molten
9162		Zirconium potassium fluoride	9263	156	Chloropivaloyl chloride
9163		Zirconium sulfate	9264	151	3,5-Dichloro-2,4,6-
9163		Zirconium sulphate			trifluoropyridine
9180		Uranyl acetate	9269		Trimethoxysilane
9183		Organic peroxide, liquid, n.o.s.	9274		1,1-Dichloro-1-fluoroethane
9183		Organic peroxide, solution, n.o.s.	9275		Regulated medical waste
9187	146	Organic peroxide, solid, n.o.s.	9276	128	Flammable liquids, elevated temperature material, n.o.s.

ID Guide Name of Material No. No.	ID Guide Name of Material No. No.
9277 171 Oil, n.o.s., flash point not less	9331 129 Waste Type 31
than 93°C (200°F)	9332 129 Waste Type 32
9278 171 Genetically modified organisms	9333 129 Waste Type 33
9301 153 Waste Type 1	9334 129 Waste Type 34
9302 153 Waste Type 2	9335 153 Waste Type 35
9303 131 Waste Type 3	9336 153 Waste Type 36
9304 153 Waste Type 4	9337 153 Waste Type 37
9305 131 Waste Type 5	9338 153 Waste Type 38
9306 154 Waste Type 6	9339 153 Waste Type 39
9307 154 Waste Type 7	9340 153 Waste Type 40
9308 153 Waste Type 8	9341 132 Waste Type 41
9309 153 Waste Type 9	9342 129 Waste Type 42
9310 153 Waste Type 10	9343 154 Waste Type 43
9311 153 Waste Type 11	9344 132 Waste Type 44
9312 153 Waste Type 12	9345 132 Waste Type 45
9313 153 Waste Type 13	9346 153 Waste Type 46
9314 153 Waste Type 14	9347 132 Waste Type 47
9315 153 Waste Type 15	9348 153 Waste Type 48
9316 154 Waste Type 16	9349 153 Waste Type 49
9317 154 Waste Type 17	9350 153 Waste Type 50
9318 154 Waste Type 18	9351 153 Waste Type 51
9319 154 Waste Type 19	9352 153 Waste Type 52
9320 154 Waste Type 20	9353 153 Waste Type 53
9321 154 Waste Type 21	9354 153 Waste Type 54
9322 154 Waste Type 22	9355 153 Waste Type 55
9323 154 Waste Type 23	9356 153 Waste Type 56
9324 152 Waste Type 24	9357 153 Waste Type 57
9325 127 Waste Type 25	9358 153 Waste Type 58
9326 152 Waste Type 26	9359 151 Waste Type 59
9327 131 Waste Type 27	9360 132 Waste Type 60
9328 131 Waste Type 28	9361 151 Waste Type 61
9329 153 Waste Type 29	9362 151 Waste Type 62
9330 153 Waste Type 30	9363 151 Waste Type 63
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	le Name of Material	ID Guide Name of Ma	iterial
No. No.	W . T . //	No. No.	
	Waste Type 64	9397 153 Waste Type 97	
	Waste Type 65	9399 137 Waste Type 99	
	Waste Type 66	9400 137 Waste Type 100	_
	Waste Type 67	9500 151 Leachable toxic waste	9
	Waste Type 68		
	Waste Type 69		
	Waste Type 70		
	Waste Type 71 Waste Type 72		
	Waste Type 73		
	Waste Type 74		
	Waste Type 75		
	Waste Type 76		
	Waste Type 77		
	Waste Type 78		
	Waste Type 79		
	Waste Type 80		
	Waste Type 81		
	Waste Type 82		
	Waste Type 83		
9384 151	Waste Type 84		
9385 154	Waste Type 85		
9386 154	Waste Type 86		
9387 154	Waste Type 87		
9388 151	Waste Type 88		
9389 154	Waste Type 89		
9390 154	Waste Type 90		
9391 153	Waste Type 91		
9392 154	Waste Type 92		
9393 153	Waste Type 93		
9394 151	Waste Type 94		
9395 153	Waste Type 95		
9396 151	Waste Type 96		
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Note:

If an entry is highlighted in either the yellow-bordered or blue-bordered pages AND THERE IS NO FIRE, go directly to the Table of Initial Isolation and Protective Action Distances (green-bordered pages) and look up the ID number and name of material to obtain initial isolation and protective action distances. IF THERE IS A FIRE, or IF A FIRE IS INVOLVED, go directly to the appropriate guide (orange-bordered pages) and use the evacuation information shown under PUBLIC SAFETY.

Name of Material	Guide No.	ID No.	Name of Material C	Suide No.	ID No
AC	117	1051	Acetylene tetrabromide	159	250
Accumulators, pressurized,	126	1956	Acetyl iodide	156	189
pneumatic or hydraulic			Acetyl methyl carbinol	127	262
Acetal	127	1088	Acetyl peroxide	148	208
Acetaldehyde	129	1089	Acid, liquid, n.o.s.	154	176
Acetaldehyde ammonia	171	1841	Acid, sludge	153	190
Acetaldehyde oxime	129	2332	Acid butyl phosphate	153	17
Acetic acid, glacial	132	2789	Acridine	153	27
Acetic acid, solution, more than	153	2790	Acrolein, inhibited	131P	109
10% but not more than 80% acid			Acrolein dimer, stabilized	129P	
Acetic acid, solution, more than	132	2789	Acrylamide	153P	20
80% acid		2.0,	Acrylic acid, inhibited	132P	22
Acetic anhydride	137	1715	Acrylonitrile, inhibited	131P	109
Acetone	127	1090	Adamsite	154	169
Acetone cyanohydrin, stabilized	d 155	1541	Adhesives (flammable)	128	11:
Acetone oils	127	1091	Adipic acid	153	90
Acetonitrile	131	1648	Adiponitrile	153	220
Acetyl acetone peroxide	145	2080	Aerosol dispensers	126	19
Acetyl benzoyl peroxide	147	2081	Aerosols	126	19
Acetyl bromide	156	1716	Air, compressed	122	100
Acetyl chloride	132	1717	Air, refrigerated liquid	122	100
Acetyl cyclohexanesulfonyl peroxide	148	2082	(cryogenic liquid)		
Acetyl cyclohexanesulfonyl peroxide	148	2083	Air, refrigerated liquid (cryogenic liquid), non- pressurized	122	100
Acetyl cyclohexanesulphonyl	148	2082	Air bag inflators	133	132
peroxide			Air bag inflators	171	32
Acetyl cyclohexanesulphonyl peroxide	148	2083	Air bag inflators, compressed gas	126	33!
•	116	1001	Air bag inflators, pyrotechnic	171	320
Acetylene disselved	116	1001	Air bag modules	133	13
Acetylene, dissolved	116	3138	Air bag modules	171	320
Acetylene, Ethylene and Propylene in mixture,	110	3130	Air bag modules, compressed gas	126	33
refrigerated liquid containing			Air bag modules, pyrotechnic	171	32
at least 71.5% Ethylene with			Aircraft evacuation slides	171	29
not more than 22.5% Acetylene and not more than 6% Propylene			Aircraft hydraulic power unit fuel tank	131	31

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	
Aircraft survival kits	171	3072	Alkaline earth metal dispersion	138	1391
Alcoholates solution, n.o.s., in	127	3274	Alkaline liquid, n.o.s.	154	1719
alcohol			Alkaloids, liquid, n.o.s.	151	3140
Alcoholic beverages	127	3065	(poisonous)		0.10
Alcohols, flammable, poisonous n.o.s.	, 131	1986	Alkaloids, solid, n.o.s. (poisonous)	151	1544
Alcohols, flammable, toxic, n.o.s.	131	1986	Alkaloid salts, liquid, n.o.s. (poisonous)	151	3140
Alcohols, n.o.s.	127	1987	Alkaloid salts, solid, n.o.s.	151	1544
Alcohols, poisonous, n.o.s.	131	1986	(poisonous)		
Alcohols, toxic, n.o.s.	131	1986	Alkylamines, n.o.s.	132	2733
Aldehydes, flammable,	131	1988	Alkylamines, n.o.s.	132	2734
poisonous, n.o.s.			Alkylamines, n.o.s.	153	2735
Aldehydes, flammable, toxic, n.o.s.	131	1988	Alkyl phenols, liquid, n.o.s. (including C2-C12	153	3145
Aldehydes, n.o.s.	129	1989	homologues)		
Aldehydes, poisonous, n.o.s.	131	1988	Alkyl phenols, solid, n.o.s. (including C2-C12	153	2430
Aldehydes, toxic, n.o.s.	131	1988	homologues)		
Aldol	153	2839	Alkyl sulfonic acids, liquid, with	153	2584
Aldrin, liquid	131	2762	more than 5% free Sulfuric		
Aldrin, solid	151	2761	acid		
Aldrin mixture, dry	151	2761	Alkyl sulfonic acids, liquid, with not more than 5% free Sulfurio		2586
Aldrin mixture, liquid	131	2762	acid	,	
Alkali metal alcoholates, self- heating, corrosive, n.o.s.	136	3206	Alkyl sulfonic acids, solid, with more than 5% free Sulfuric	153	2583
Alkali metal alloy, liquid, n.o.s.	138	1421	acid		
Alkali metal amalgam	138	1389	Alkyl sulfonic acids, solid, with	153	2585
Alkali metal amalgam, liquid	138	1389	not more than 5% free Sulfurion acid	3	
Alkali metal amalgam, solid	138	1389	Alkylsulfuric acids	156	2571
Alkali metal amides	139	1390	Alkyl sulphonic acids, liquid,	153	2584
Alkali metal dispersion	138	1391	with more than 5% free	133	2304
Alkaline earth metal alcoholates, n.o.s.	135	3205	Sulphuric acid Alkyl sulphonic acids, liquid,	153	2586
Alkaline earth metal alloy, n.o.s	. 138	1393	with not more than 5% free		
Alkaline earth metal amalgam	138	1392	Sulphuric acid		
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Name of Material G	Suide No.	ID No.	Name of Material (Guide No.	ID No.
Alkyl sulphonic acids, solid, with	153	2583	Aluminum dross	138	3170
more than 5% free Sulphuric acid			Aluminum ferrosilicon powder	139	1395
	152	2585	Aluminum hydride	138	2463
Alkyl sulphonic acids, solid, with not more than 5% free	133	2363	Aluminum nitrate	140	1438
Sulphuric acid			Aluminum phosphate, solution	154	1760
Alkylsulphuric acids	156	2571	Aluminum phosphide	139	1397
Allethrin	151	2902	Aluminum phosphide pesticide	157	3048
Allyl acetate	131	2333	Aluminum powder, coated	170	1309
Allyl alcohol	131	1098	Aluminum powder, pyrophoric	135	1383
Allylamine	131	2334	Aluminum powder, uncoated	138	1396
Allyl bromide	131	1099	Aluminum processing	138	3170
Allyl chloride	131	1100	by-products		
Allyl chlorocarbonate	155	1722	Aluminum remelting by-products		3170
Allyl chloroformate	155	1722	Aluminum resinate	133	2715
Allyl ethyl ether	131	2335	Aluminum silicon powder, uncoated	138	1398
Allyl formate	131	2336	Aluminum smelting by-products	138	3170
Allyl glycidyl ether	129	2219	Aluminum sulfate, solid	171	9078
Allyl iodide	132	1723	Aluminum sulfate, solution	154	1760
Allyl isothiocyanate, inhibited	155	1545	Aluminum sulphate, solid	171	9078
Allyl isothiocyanate, stabilized	155	1545	Aluminum sulphate, solution	154	1760
Allyltrichlorosilane, stabilized	155	1724	Amines, flammable, corrosive,	132	2733
Aluminum, molten	169	9260	n.o.s.		2,00
Aluminum alkyl halides	135	3052	Amines, liquid, corrosive,	132	2734
Aluminum alkyl hydrides	138	3076	flammable, n.o.s.		
Aluminum alkyls	135	3051	Amines, liquid, corrosive, n.o.s.		2735
Aluminum borohydride	135	2870	Amines, solid, corrosive, n.o.s.	154	3259
Aluminum borohydride in devices	135	2870	2-Amino-4-chlorophenol	151	2673
Aluminum bromide, anhydrous	137	1725	2-Amino-5-diethylaminopentane		2946
Aluminum bromide, solution	154	2580	2-Amino-4,6-dinitrophenol, wetted with not less than 20%	113	3317
Aluminum carbide	138	1394	water		
Aluminum chloride, anhydrous	137	1726	2-(2-Aminoethoxy)ethanol	154	1760
Aluminum chloride, solution	154	2581	2-(2-Aminoethoxy)ethanol	154	3055
Mammam emoriae, solution	137	2001			ae 1

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
N-Aminoethylpiperazine	153	2815	Ammonium fluoborate	154	9088
Aminophenols	152	2512	Ammonium fluoride	154	2505
Aminopropyldiethanolamine	154	1760	Ammonium fluorosilicate	151	2854
N-Aminopropylmorpholine	154	1760	Ammonium hydrogendifluoride,	154	1727
Aminopyridines	153	2671	solid		
Ammonia, anhydrous	125	1005	Ammonium hydrogendifluoride, solution	154	2817
Ammonia, anhydrous, liquefied	125	1005	Ammonium hydrogen fluoride,	154	1727
Ammonia, solution, with more	154	2672	solid	134	1/2/
than 10% but not more than 35% Ammonia			Ammonium hydrogen fluoride, solution	154	2817
Ammonia, solution, with more than 35% but not more than	125	2073	Ammonium hydrogen sulfate	154	2506
50% Ammonia			Ammonium hydrogen sulphate	154	2506
Ammonia solution, with more than 50% Ammonia	125	1005	Ammonium hydrosulfide, solution	132	2683
Ammonia solution, with more than 50% Ammonia	125	3318	Ammonium hydrosulphide, solution	132	2683
Ammonium acetate	171	9079	Ammonium hydroxide	154	2672
Ammonium arsenate	151	1546	Ammonium hydroxide, with more	154	2672
Ammonium benzoate	171	9080			
Ammonium bicarbonate	171	9081		154	2859
Ammonium bifluoride, solid	154	1727	Ammonium hydrosulfide, solution Ammonium hydrosulphide, solution Ammonium hydroxide Ammonium hydroxide, with months than 10% but not more than 35% Ammonia Ammonium metavanadate Ammonium nitrate, liquid (hot concentrated solution) Ammonium nitrate, with not muthan 0.2% combustible substances Ammonium nitrate, with organicoating	140	2426
Ammonium bifluoride, solution	154	2817		140	2420
Ammonium bisulfite, solid	154	2693	Ammonium nitrate, with not more	e 140	1942
Ammonium bisulfite, solution	154	2693	than 0.2% combustible		
Ammonium bisulphite, solid	154	2693		4	40/0
Ammonium bisulphite, solution	154	2693	· ·	140	1942
Ammonium carbamate	154	9083	Ammonium nitrate fertilizer,	140	2072
Ammonium carbonate	154	9084	n.o.s.	140	2012
Ammonium chloride	171	9085	Ammonium nitrate fertilizer, with	1 40	2071
Ammonium chromate	143	9086	not more than 0.4%		
Ammonium citrate, dibasic	171	9087	combustible material	140	20/7
Ammonium dichromate	141	1439	Ammonium nitrate fertilizers	140	2067
Ammonium dinitro-o-cresolate	141	1843	Ammonium nitrate fertilizers	140	2071

Name of Material (Guide No.	ID No.	Name of Material	Guide No.	ID No.
Ammonium nitrate fertilizers, with Ammonium sulfate	140	2069	Ammunition, tear-producing, non-explosive	159	2017
Ammonium nitrate fertilizers, with Ammonium sulphate	140	2069	Ammunition, toxic, non-explosive	151	2016
Ammonium nitrate fertilizers,	140	2068	Amyl acetates	129	1104
with Calcium carbonate Ammonium nitrate fertilizers,	143	2070	Amyl acid phosphate	153	2819
with Phosphate or Potash	143	2070	Amyl alcohols	129	1105
Ammonium nitrate-fuel oil	112		Amylamines	132	1106
mixtures			Amyl butyrates	130	2620
Ammonium nitrate mixed fertilizers	140	2069	Amyl chloride	129 127	1107 1108
Ammonium oxalate	154	2449	n-Amylene Amyl formates	127	1100
Ammonium perchlorate	143	1442	Amyl mercaptan	130	1111
Ammonium permanganate	143	9190	n-Amyl methyl ketone	127	1110
Ammonium persulfate	140	1444	Amyl methyl ketone	127	1110
Ammonium persulphate	140	1444	Amyl nitrate	140	1112
Ammonium picrate, wetted with	113	1310	Amyl nitrite	129	1113
not less than 10% water			tert-Amyl peroxy-2-	148	2898
Ammonium polysulfide, solution	154	2818	ethylhexanoate		
Ammonium polysulphide, solution	154	2818	tert-Amyl peroxyneodecanoate	148	2891
Ammonium polyvanadate	151	2861	Amyltrichlorosilane	155	1728
Ammonium silicofluoride	151	2854	Anhydrous ammonia	125	1005
Ammonium sulfamate	171	9089	Anhydrous ammonia, liquefied	125	1005
Ammonium sulfate nitrate	140	1477	Aniline	153	1547
Ammonium sulfide, solution	132	2683	Aniline hydrochloride	153	1548
Ammonium sulfite	171	9090	Anisidines	153	2431
Ammonium sulphamate	171	9089	Anisidines, liquid	153	2431
Ammonium sulphate nitrate	140	1477	Anisidines, solid	153	2431
Ammonium sulphide, solution	132	2683	Anisole Anisoyl chloride	127 156	22221729
Ammonium sulphite	171	9090	Antimony compound, inorganic,		3141
Ammonium tartrate	171	9091	liquid, n.o.s.	137	3141
Ammunition, poisonous, non-explosive	151	2016	Antimony compound, inorganic, n.o.s.	157	1549

Name of Material	Guide No.	ID No.	Name of Material C	Suide No.	ID No.
Antimony compound, inorganic solid, n.o.s.	157	1549	Arsenical pesticide, liquid, poisonous, flammable	131	2993
Antimony lactate	151	1550	Arsenical pesticide, liquid, toxic	151	2994
Antimony pentachloride, liquid	157	1730	Arsenical pesticide, liquid, toxic,	131	2993
Antimony pentachloride, solution	157	1731	flammable Arsenical pesticide, solid,	151	2759
Antimony pentafluoride	157	1732	poisonous		
Antimony potassium tartrate	151	1551	Arsenical pesticide, solid, toxic	151	2759
Antimony powder	170	2871	Arsenic bromide	151	1555
Antimony sulfide, solid	133	1325	Arsenic chloride	157	1560
Antimony sulphide, solid	133	1325	Arsenic compound, liquid, n.o.s.		1556
Antimony tribromide, solid	157	1549	Arsenic compound, liquid,	152	1556
Antimony tribromide, solution	157	1549	n.o.s., inorganic	152	1557
Antimony trichloride	157	1733	Arsenic compound, solid, n.o.s.	152	1557
Antimony trichloride, liquid	157	1733	Arsenic compound, solid, n.o.s., inorganic	132	1557
Antimony trichloride, solid	157	1733	Arsenic iodide, solid	152	1557
Antimony trichloride, solution	157	1733	Arsenic pentoxide	151	1559
Antimony trifluoride, solid	157	1549	Arsenic sulfide	152	1557
Antimony trifluoride, solution	157	1549	Arsenic sulphide	152	1557
Antimony trioxide	171	9201	Arsenic trichloride	157	1560
Aqua regia	157	1798	Arsenic trioxide	151	1561
Argon	121	1006	Arsenic trisulfide	152	1557
Argon, compressed	121	1006	Arsenic trisulphide	152	1557
Argon, refrigerated liquid	120	1951	Arsine	119	2188
(cryogenic liquid)	450	4550	Articles containing	171	2315
Arsenic	152	1558	Polychlorinated biphenyls		
Arsenic acid, liquid	154	1553	(PCB)	40.	04/
Arsenic acid, solid	154	1554	Articles, pressurized, hydraulic (containing non-flammable	126	3164
Arsenical dust	152	1562	gas)		
Arsenical pesticide, liquid, flammable, poisonous	131	2760	Articles, pressurized, pneumatic (containing non-flammable	126	3164
Arsenical pesticide, liquid, flammable, toxic	131	2760	gas) Aryl sulfonic acids, liquid, with	153	2584
Arsenical pesticide, liquid, poisonous	151	2994	more than 5% free Sulfuric acid	103	2004

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Aryl sulfonic acids, liquid, with not more than 5% free Sulfurion.	153	2586	1,1'-Azodi- (hexahydrobenzonitrile)	149	295
acid	450	0500	Azodiisobutyronitrile	150	295
Aryl sulfonic acids, solid, with more than 5% free Sulfuric acid	153	2583	2,2'-Azodi-(2-methyl- butyronitrile)	150	303
Aryl sulfonic acids, solid, with	153	2585	Barium	138	140
not more than 5% free Sulfuri		2000	Barium alloys, pyrophoric	135	185
acid Aryl sulphonic acids, liquid, with	1 53	2584	Barium azide, wetted with not less than 50% water	113	157
more than 5% free Sulphuric			Barium bromate	141	271
acid	455	050:	Barium chlorate	141	144
Aryl sulphonic acids, liquid, with not more than 5% free	153	2586	Barium chlorate, wet	141	144
Sulphuric acid			Barium compound, n.o.s.	154	156
Aryl sulphonic acids, solid, with	153	2583	Barium cyanide	157	156
more than 5% free Sulphuric acid			Barium hypochlorite, with more than 22% available Chlorine	141	274
Aryl sulphonic acids, solid, with	153	2585	Barium nitrate	141	144
not more than 5% free Sulphuric acid			Barium oxide	157	188
Asbestos	171	2212	Barium perchlorate	141	144
Asbestos, blue	171	2212	Barium permanganate	141	144
Asbestos, brown	171	2212	Barium peroxide	141	144
Asbestos, white	171	2590	Barium selenate	151	263
Asphalt	130	1999	Barium selenite	151	263
Asphalt, cut back	130	1999	Batteries, containing Sodium	138	329
Aviation regulated liquid, n.o.s.	171	3334	Batteries, dry, containing	154	302
Aviation regulated solid, n.o.s.	171	3335	Potassium hydroxide, solid Batteries, wet, filled with acid	15/	279
Azinphos methyl	152	2783		154 154	279
1-Aziridinyl phosphine oxide	152	2501	Batteries, wet, filled with alkali	154	280
(Tris)			Batteries, wet, non-spillable Battery	154	280 181
Azodicarbonamide	149	3242	,	154	279
2,2'-Azodi-(2,4-dimethyl-4- methoxyvaleronitrile)	150	2955	Battery Battery	154	279
2,2'-Azodi-(2,4-	150	2953	Battery fluid, acid	157	279
dimethylvaleronitrile)	130	2733	Battery fluid, acid, with battery		Z17

Name of Material (Guide No.	ID No.	Name of Material	Guide No.	ID No.
Battery fluid, acid, with electronic equipment or	157	2796	Benzoic derivative pesticide, liquid, toxic, flammable	131	3003
actuating device Battery fluid, alkali	154	2797	Benzoic derivative pesticide, solid, poisonous	151	2769
Battery fluid, alkali, with battery	154	2797	Benzoic derivative pesticide,	151	2769
Battery fluid, alkali, with	154	2797	solid, toxic		
electronic equipment or			Benzonitrile	152	2224
actuating device			Benzoquinone	153	2587
Battery-powered equipment (we battery)	t 154	3171	Benzotrichloride	156	2226
Battery-powered vehicle (wet	154	3171	Benzotrifluoride	131	2338
battery)	134	3171	Benzoyl chloride	137	1736
Benzaldehyde	129	1989	Benzoyl peroxide	146	2085
Benzaldehyde	129	1990	Benzoyl peroxide	146	2087
Benzene	130	1114	Benzoyl peroxide	146	2088
Benzene-1,3-disulfohydrazide	149	2971	Benzoyl peroxide	145	2089
Benzene-1,3-disulphohydrazide	149	2971	Benzoyl peroxide	146	2090
Benzene phosphorus dichloride	137	2798	Benzyl bromide	156	1737
Benzene phosphorus	137	2799	Benzyl chloride	156	1738
thiodichloride			Benzyl chloroformate	137	1739
Benzene sulfohydrazide	149	2970	Benzyldimethylamine	132	2619
Benzenesulfonyl chloride	156	2225	4-[Benzyl(ethyl)amino]-3-	149	3037
Benzene sulphohydrazide	149	2970	ethoxybenzenediazonium zinc chloride		
Benzenesulphonyl chloride	156	2225		156	1886
Benzidine	153	1885	Benzylidene chloride Benzyl iodide	156	2653
Benzoic acid	153	9094	4-[Benzyl(methyl)amino]-3-	150	3038
Benzoic derivative pesticide, liquid, flammable, poisonous	131	2770	ethoxybenzenediazonium zinc chloride	130	3030
Benzoic derivative pesticide, liquid, flammable, toxic	131	2770	Beryllium chloride	154	1566
Benzoic derivative pesticide,	151	3004	Beryllium compound, n.o.s.	154	1566
liquid, poisonous	-		Beryllium fluoride	154	1566
Benzoic derivative pesticide,	131	3003	Beryllium nitrate	141	2464
liquid, poisonous, flammable	151	2004	Beryllium powder	134	1567
Benzoic derivative pesticide, liquid, toxic	151	3004	Bhusa, wet, damp or contaminated with oil	133	1327

Name of Material (Guide No.	ID No.	Name of Material (Guide No.	ID No.
Bicyclo[2.2.1]hepta-2,5-diene	127P	2251	Blasting agent, n.o.s.	112	
Bicyclo[2.2.1]hepta-2,5-diene,	127P	2251	Bleaching powder	140	220
inhibited			Blue asbestos	171	221
Bifluorides, n.o.s.	154	1740	Bombs, smoke, non-explosive,	153	202
Biological agents	158		with corrosive liquid, without initiating device		
(Bio)Medical waste, n.o.s.	158	3291	Borate and Chlorate mixtures	140	145
Bipyridilium pesticide, liquid, flammable, poisonous	131	2782	Borneol	133	131
Bipyridilium pesticide, liquid,	131	2782	Boron tribromide	157	269
flammable, toxic	131	2702	Boron trichloride	125	174
Bipyridilium pesticide, liquid,	151	3016	Boron trifluoride	125	100
poisonous			Boron trifluoride, compressed	125	100
Bipyridilium pesticide, liquid, poisonous, flammable	131	3015	Boron trifluoride, dihydrate	157	285
Bipyridilium pesticide, liquid,	151	3016	Boron trifluoride acetic acid complex	157	174
Bipyridilium pesticide, liquid,	131	3015	Boron trifluoride diethyl etherate	132	260
toxic, flammable			Boron trifluoride dimethyl	139	296
Bipyridilium pesticide, solid,	151	2781	etherate		
poisonous			Boron trifluoride propionic acid complex	157	174
Bipyridilium pesticide, solid, toxic	151	2781	Brake fluid, hydraulic	130	111
Bis-(2-chloroethyl) ethylamine	153	2810	Bromates, inorganic, aqueous	140	321
Bis-(2-chloroethyl) methylamine		2810	solution, n.o.s.	140	521
Bis-(2-chloroethyl) sulfide	153	2810	Bromates, inorganic, n.o.s.	141	145
Bis-(2-chloroethyl) sulphide	153	2810	Bromine	154	174
Bisulfates, aqueous solution	154	2837	Bromine, solution	154	174
Bisulfites, aqueous solution,	154	2693	Bromine chloride	124	290
n.o.s.			Bromine pentafluoride	144	174
Bisulfites, inorganic, aqueous	154	2693	Bromine trifluoride	144	174
solutions, n.o.s.	154	2027	Bromoacetic acid	156	193
Bisulphates, aqueous solution	154	2837	Bromoacetic acid, solid	156	193
Bisulphites, aqueous solution, n.o.s.	154	2693	Bromoacetic acid, solution	156	193
Bisulphites, inorganic, aqueous	154	2693	Bromoacetone	131	156
solutions, n.o.s.			Bromoacetyl bromide	156	251

Name of Material C	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Bromobenzene	129	2514	Butyl alcohol	129	1120
Bromobenzyl cyanides	159	1694	n-Butylamine	132	1125
1-Bromobutane	129	1126	N-Butylaniline	153	2738
2-Bromobutane	130	2339	Butylbenzenes	128	2709
Bromochlorodifluoromethane	126	1974	n-Butyl bromide	129	1126
Bromochloromethane	160	1887	Butyl chloride	130	1127
1-Bromo-3-chloropropane	159	2688	n-Butyl chloroformate	155	2743
2-Bromoethyl ethyl ether	130	2340	sec-Butyl chloroformate	155	2742
Bromoform	159	2515	tert-Butyl cumene peroxide	145	2091
1-Bromo-3-methylbutane	130	2341	tert-Butyl cumyl peroxide	145	2091
Bromomethylpropanes	130	2342	tert-Butylcyclohexyl	156	2747
2-Bromo-2-nitropropane-1,3-dio	133	3241	chloroformate		
2-Bromopentane	130	2343	n-Butyl-4,4-di-(tert- butylperoxy)valerate	146	2140
2-Bromopropane	130	2344	n-Butyl-4,4-di-(tert-	145	2141
Bromopropanes	130	2344	butylperoxy)valerate	143	2141
3-Bromopropyne	129	2345	Butylene	115	1012
Bromotrifluoroethylene	116	2419	Butylene	115	1075
Bromotrifluoromethane	126	1009	1,2-Butylene oxide, stabilized	127P	3022
Brown asbestos	171	2212	Butyl ethers	127	1149
Brucine	152	1570	n-Butyl formate	129	1128
Burnt cotton, not picked	133	1325	tert-Butyl hydroperoxide	147	2093
Butadienes, inhibited	116P	1010	tert-Butyl hydroperoxide	147	2094
Butane	115	1011	tert-Butyl hydroperoxide, not	147	2092
Butane	115	1075	more than 80% in Di-tert-buty	1	
Butanedione	127	2346	peroxide and/or solvent	125	2255
Butane mixture	115	1011	tert-Butyl hypochlorite	135	3255
Butane mixture	115	1075	N,n-Butylimidazole	152	2690
Butanols	129	1120	n-Butyl isocyanate	155	2485
Butoxyl	127	2708	tert-Butyl isocyanate	155	2484
Butyl acetates	129	1123	tert-Butyl isopropyl benzene hydroperoxide	145	2091
Butyl acid phosphate	153	1718	Butyl mercaptan	130	2347
Butyl acrylate	129P	2348	n-Butyl methacrylate	129P	
Butyl acrylates, inhibited	129P	2348	3.5 3 3.1 1.0.0	,.	/

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
n-Butyl methacrylate, inhibited	129P	2227	tert-Butyl peroxypivalate	148	2110
Butyl methyl ether	127	2350	tert-Butyl peroxy-3,5,5-	145	2104
tert-Butyl monoperoxymaleate	146	2099	trimethylhexanoate		
Butyl nitrites	129	2351	Butylphenols, liquid	153	2228
tert-Butyl peroxyacetate	146	2095	Butylphenols, solid	153	2229
tert-Butyl peroxyacetate	146	2096	n-Butyl phthalate	171	9095
tert-Butyl peroxybenzoate	146	2097	Butyl propionates	130	1914
tert-Butyl peroxybenzoate	145	2098	ButyItoluenes	131	2667
tert-Butyl peroxybenzoate	145	2890	Butyltrichlorosilane	155	1747
tert-Butyl peroxycrotonate	145	2183	5-tert-Butyl-2,4,6-trinitro-	149	2956
Butyl peroxydicarbonate	148	2169	m-xylene		
Butyl peroxydicarbonate	148	2170	Butyl vinyl ether, inhibited	127P	
tert-Butyl peroxydiethylacetate	148	2144	1,4-Butynediol	153	2716
tert-Butyl peroxydiethylacetate		2551	Butyraldehyde	129	1129
with tert-Butyl			Butyraldoxime	129	2840
peroxybenzoate			Butyric acid	153	2820
tert-Butyl peroxy-2- ethylhexanoate	148	2143	Butyric anhydride	156	2739
tert-Butyl peroxy-2-	148	2888	Butyronitrile	131	2411
ethylhexanoate, not more tha		2000	Butyryl chloride	132	2353
50%, with phlegmatizer			Buzz	153	2810
tert-Butyl peroxy-2-	148	2886	BZ	153	2810
ethylhexanoate, with 2,2-Di- (tert-butylperoxy)butane			CA	159	1694
tert-Butyl peroxy-2-	145	2887	Cacodylic acid	151	1572
ethylhexanoate, with 2,2-Di-		2007	Cadmium compound	154	2570
(tert-butylperoxy)butane			Caesium	138	1407
tert-Butyl peroxyisobutyrate	148	2142	Caesium hydroxide	157	2682
tert-Butyl peroxyisobutyrate	148	2562	Caesium hydroxide, solution	154	2681
tert-Butyl peroxyisononanoate	145	2104	Caesium nitrate	140	1451
tert-Butyl peroxyisopropyl	146	2103	Calcium	138	1401
carbonate		0.4	Calcium, metal and alloys,	135	1855
tert-Butyl peroxyneodecanoate		2177	pyrophoric	125	1055
tert-Butyl peroxyneodecanoate		2594	Calcium, pyrophoric	135	1855
tert-Butyl peroxy-3- phenylphthalide	145	2596	Calcium alloys, pyrophoric	135	1855
phonyiphinaliae			Calcium arsenate	151	1573 ge 118

Name of Material (Guide No.	ID No.	Name of Material	Guide No.	ID No.
Calcium arsenate and Calcium arsenite mixture, solid	151	1574	Calcium hypochlorite mixture, dry, with more than 10% but	140	2208
Calcium arsenite, solid	151	1574	not more than 39% available Chlorine		
Calcium arsenite and Calcium arsenate mixture, solid	151	1574	Calcium hypochlorite mixture, dry, with more than 39%	140	1748
Calcium carbide	138	1402	available Chlorine (8.8%		
Calcium chlorate	140	1452	available Oxygen) `		
Calcium chlorate, aqueous solution	140	2429	Calcium manganese silicon Calcium metal, crystalline	138 138	2844 1401
Calcium chlorate, solution	140	2429	Calcium nitrate	140	1454
Calcium chlorite	140	1453	Calcium oxide	157	1910
Calcium chromate	171	9096	Calcium perchlorate	140	1455
Calcium cyanamide, with more	138	1403	Calcium permanganate	140	1456
than 0.1% Calcium carbide			Calcium peroxide	140	1457
Calcium cyanide	157	1575	Calcium phosphide	139	1360
Calcium dithionite	135	1923	Calcium resinate	133	1313
Calcium dodecylbenzenesulfonate	171	9097	Calcium resinate, fused	133	1314
Calcium	171	9097	Calcium selenate	151	2630
dodecylbenzenesulphonate			Calcium silicide	138	1405
Calcium hydride	138	1404	Calcium silicon	138	1406
Calcium hydrogen sulfite, solution	154	2693	Camphene Camphor	133 133	9011 2717
Calcium hydrogen sulphite, solution	154	2693	Camphor, synthetic	133	2717
Calcium hydrosulfite	135	1923	Camphor oil	128	1130
Calcium hydrosulphite	135	1923	Caproic acid	153	2829
Calcium hypochlorite, dry	140	1748	Caprylyl peroxide	148	2129
Calcium hypochlorite, hydrated,		2880	Caprylyl peroxide, solution	148	2129
with not less than 5.5% but no more than 10% water		_550	Carbamate pesticide, liquid, flammable, poisonous	131	2758
Calcium hypochlorite, hydrated mixture, with not less than	140	2880	Carbamate pesticide, liquid, flammable, toxic	131	2758
5.5% but not more than 10% water			Carbamate pesticide, liquid, poisonous	151	2992
			Carbamate pesticide, liquid, poisonous, flammable	131	2991

Name of Material G	Suide No.	ID No.	Name of Material	Guide No.	ID No.
Carbamate pesticide, liquid, toxic	151	2992	Carbon dioxide and Oxygen mixture	122	1014
Carbamate pesticide, liquid, toxic, flammable	131	2991	Carbon dioxide and Oxygen mixture, compressed	122	1014
Carbamate pesticide, solid,	151	2757	Carbon disulfide	131	113
poisonous			Carbon disulphide	131	113
Carbamate pesticide, solid, toxic	151	2757	Carbon monoxide	119	101
Carbaryl	151	2757	Carbon monoxide, compressed	119	101
Carbofuran	151	2757	Carbon monoxide and Hydroger mixture	119	260
Carbon, activated	133	1362	Carbon monoxide and Hydroger	n 119	260
Carbon, animal or vegetable origin	133	1361	mixture, compressed		
Carbon bisulfide	131	1131	Carbon monoxide, refrigerated liquid (cryogenic liquid)	168	920
Carbon bisulphide	131	1131	Carbon tetrabromide	151	251
Carbon dioxide	120	1013	Carbon tetrachloride	151	184
Carbon dioxide, compressed	120	1013	Carbonyl fluoride	125	241
Carbon dioxide, refrigerated	120	2187	Carbonyl fluoride, compressed	125	241
liquid			Carbonyl sulfide	119	220
Carbon dioxide, solid	120	1845	Carbonyl sulphide	119	220
Carbon dioxide and Ethylene oxide mixture, with more than 9% but not more than 87%	115	1041	Cargo transport unit under fumigation	171	
Ethylene oxide		0000	Castor beans, meal, pomace or flake	171	296
Carbon dioxide and Ethylene oxide mixture, with more than	119P	3300	Caustic alkali liquid, n.o.s.	154	171
87% Ethylene oxide			Caustic potash, dry, solid	154	181
Carbon dioxide and Ethylene	115	1041	Caustic potash, liquid	154	181
oxide mixtures, with more than 6% Ethylene oxide			Caustic potash, solution	154	181
Carbon dioxide and Ethylene	126	1952	Caustic soda, bead	154	182
oxide mixtures, with not more		. , , , ,	Caustic soda, flake	154	182
than 6% Ethylene oxide	101	1050	Caustic soda, granular	154	182
Carbon dioxide and Ethylene oxide mixtures, with not more	126	1952	Caustic soda, solid	154	182
than 9% Ethylene oxide			Caustic soda, solution	154	182
Carbon dioxide and Nitrous oxide mixture	126	1015	Cells, containing Sodium	138	329

Name of Material (Guide No.	ID No.	Name of Material (Guide No.	
Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except	133	2000	Chemical kits (containing flammable solids)	133	
scrap Celluloid, scrap	135	2002	Chemical kits (containing oxidizing substances)	140	
Cement (flammable)	128	1133	Chemical kits (containing	153	
Cement, container, linoleum, tile or wallboard, liquid	128	1133	poisonous liquids) Chemical kits (containing	154	
Cement, leather	128	1133	poisonous solids)		
Cement, liquid, n.o.s.	128	1133	Chemical kits (containing toxic	153	
Cement, pyroxylin	128	1133	liquids)		
Cement, roofing, liquid	128	1133	Chemical kits (containing toxic solids)	154	
Cement, rubber	128	1133	Chemical sample, poisonous	151	3315
Cerium, slabs, ingots or rods	170	1333	liquid		3010
Cerium, turnings or gritty powde	r 138	3078	Chemical sample, poisonous	151	3315
Cesium	138	1407	solid		
Cesium hydroxide	157	2682	Chemical sample, toxic liquid	151	3315
Cesium hydroxide, solution	154	2681	Chemical sample, toxic solid	151	3315
Cesium nitrate	140	1451	Chloral, anhydrous, inhibited	153	2075
CG	125	1076	Chlorate, n.o.s., wet	140	1461
Charcoal	133	1361	Chlorate and Borate mixtures	140	1458
Charcoal, briquettes	133	1361	Chlorate and Magnesium chloride mixture	140	1459
Charcoal, shell	133	1361	Chlorates, inorganic, aqueous	140	3210
Charcoal, wood, ground,	133	1361	solution, n.o.s.		-
crushed, granulated or pulverized			Chlorates, inorganic, n.o.s.	140	1461
Charcoal screenings, made from	133	1361	Chloric acid	140	2626
"Pinon" wood			Chloric acid, aqueous solution,	140	2626
Charcoal screenings, other than "Pinon" wood screenings	133	1361	with not more than 10% Chloric acid		
Chemical kit	154	1760	Chlorine	124	1017
Chemical kit	171	3316	Chlorine dioxide, hydrate, frozei		9191
Chemical kits (containing	154		Chlorine pentafluoride	124	2548
corrosive substances)			Chlorine trifluoride	124	1749
Chemical kits (containing flammable liquids)	128		Chlorite solution	154	1908

Chlorite solution, with more than 5% available Chlorine Chlorites, inorganic, n.o.s. 143 1462 Chloroacetaldehyde 153 2232 Chloroacetic acid, liquid 153 1750 Chloroacetic acid, solid 153 1751 Chloroacetic acid, solid 153 1751 Chloroacetic acid, solid 153 1751 Chloroacetone, stabilized 131 1695 Chloroacetone, stabilized 131 1695 Chloroacetophenone 153 1697 Chloroacetophenone, liquid 153 1697 Chloroacetophenone, solid 153 1697 Chloroacetophenone, solid 154 Chloroacetophenone, solid 155 Chloroacetophenone, solid 152 Chloroacetophenone, solid 152 Chloroacetophenone, solid 152 Chloroacetophenone, solid 152 Chlorobenzout certain 153 Chloroacetophenone, solid 152 Chlorobenzout certain 153 Chloroacetophenone, solid 152 Chlorobenzout certain 153 Chloroacetophenone, solid 152 Chloroacetophenone, solid 153 Chloroacetophenone, solid 152 Chloroacetophenone, solid 152 Chloroacetophenone, solid 152 Chloroacetophenone, solid 152 Chloroacetophenone, solid 153 Chloroacetophenone, solid 152 Chloroacetophenone, solid 153 Chloroacetophenone, solid 154 Chloroacetophenone, solid 155 Chloroacetophenone, solid 152 Chloroacetophenone, solid 153 Chloroacetophenone, solid 153 Chloroacetophenone, solid 154 Chloroacetophenone, solid 154 Chloroacetophenone, solid 154 Chloroacetophenone, solid 154 Chloroacet	ID No.	ID No			
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Chloroacetophenone, solid Chloroacetyl chloride Chloroanilines, liquid T53 1697 Chloroanilines, liquid T54 2019 Chloroanilines, liquid T55 2019 Chloroanilines, solid T52 2018 Chloroanisidines T52 2233 Chloroformates, toxic, corrosive, flammable, n.o.s. Chloroanisidines T52 2233 Chloroformates, toxic, corrosive, flammable, n.o.s. Chlorobenzene T30 1134 Chloroheptane T29 Chlorobenzotrifluorides T30 2234 T-Chloroheptane T29 Chlorobenzoyl peroxide T46 2113 T-Chlorohexane T29 Chlorobenzoyl peroxide T45 2114 Chloromethyl chloroformate T57 Chlorobenzoyl peroxide T45 2115 Chloro-4-methylphenyl isocyanate Chlorobenzylidene T53 2810 Chloronitrobenzenes T53 Chloronitrobenzenes, liquid T52 Chlorocresols T52 2669 Chloronitrotoluenes T53 Chloronitrotoluenes T53 Chloronitrotoluenes T53 Chloronitrotoluenes, liquid T52 Chlorocresols, liquid T53 Chloronitrotoluenes, liquid T53 Chloronitrotoluenes, liquid T54 Chloroacetyl chloride T55 Chlorooritrotoluenes, liquid T54 Chloroacetyl chloride T54 Corrosive, n.o.s. Chloroformates, toxic, corrosive, n.o.s. Chloroformates	2742	274	274	742	
Chloroacetyl chloride Chloroanilines, liquid Chloroanilines, liquid T52 Chloroanilines, solid Chloroanilines, solid T52 Chloroanilines, solid T52 Chloroanilines, solid T52 Chloroformates, toxic, corrosive, n.o.s. Chloroformates, toxic, corrosive, n.o.s. Chloroformates, toxic, corrosive, n.o.s. Chlorobenzene T30 T30 T34 T-Chloroheptane T29 Chlorobenzoyl peroxide T46 T30 T30 T34 T-Chloroheptane T29 Chlorobenzoyl peroxide T46 T45 T57 T20 T31 T31 T32 T45 T33 T45					
Chloroacetyl chloride Chloroanilines, liquid Chloroanilines, solid Chloroanilines, solid Chloroanisidines 152 2018 Chloroformates, toxic, corrosive, flammable, n.o.s. Chloroformates, toxic, corrosive, n.o.s. Chlorobenzene 130 1134 Chlorobenzotrifluorides 130 2234 P-Chlorobenzoyl peroxide 146 2113 Chloromethyl chloroformate 157 Chlorobenzoyl peroxide 145 2114 P-Chlorobenzoyl peroxide 145 2115 Chloromethyl ethyl ether 131 P-Chlorobenzyl chlorides 153 2235 O-Chlorobenzylidene malononitrile 150 Chloroanilines 151 Chloroanilines 152 Chloroanilines 153 Chloroanilines 153 Chloronitrobenzenes 153 Chloronitrobenzenes 153 Chloronitrobenzenes, liquid 154 Chlorocresols 155 Chlorocresols, liquid 156 Chloronitrotoluenes 157 Chloronitrotoluenes, liquid 158 Chloronitrotoluenes, liquid 159 Chloronitrotoluenes, liquid 150 Chloronitrotoluenes, liquid 150 Chloronitrotoluenes, liquid 150 Chloronitrotoluenes, liquid 151 Chloronitrotoluenes, liquid 152 Chloronitrotoluenes, liquid 153 Chloronitrotoluenes, liquid 154 Chloronitrotoluenes, liquid 155 Chloronitrotoluenes, liquid 156 Chloronitrotoluenes, liquid 157 Chloronitrotoluenes, liquid 158 Chloronitrotoluenes, liquid 159 Chloronitrotoluenes, liquid	3277	327	327	277	
Chloroanilines, liquid Chloroanilines, solid Chloroanisidines 152 2018 Chloroanisidines 152 2018 Chloroformates, toxic, corrosive, n.o.s. Chlorobenzene 130 1134 Chlorobenzotrifluorides 130 2234 P-Chlorobenzoyl peroxide 146 2113 P-Chlorobenzoyl peroxide 145 2114 Chloromethyl chloroformate 157 Chloromethyl ethyl ether 131 P-Chlorobenzoyl peroxide 145 2115 Chlorobenzyl chlorides 153 2235 O-Chlorobenzylidene malononitrile 154 Chlorometes, toxic, corrosive, n.o.s. 154 Chloroheptane 129 Chloromethyl chloroformate 157 Chloromethyl ethyl ether 131 3-Chloro-4-methylphenyl isocyanate Chloronitroanilines 153 Chloronitrobenzenes 152 Chloronitrobenzenes 153 Chloronitrobenzenes, liquid 152 Chlorocresols Chloronitrotoluenes 152 Chloronitrotoluenes 153 Chloronitrotoluenes 154 Chloronitrobenzenes 157 Chloronitrobenzenes 158 Chloronitrobenzenes, solid 159 Chloronitrotoluenes 150 Chloronitrotoluenes 151 Chloronitrotoluenes 152 Chloronitrotoluenes 153 Chloronitrotoluenes 154 Chloronitrobenzenes 154 Chloronitrobenzenes 155 Chloronitrotoluenes 156 Chloronitrotoluenes 157 Chloronitrotoluenes 158 Chloronitrotoluenes 159 Chloronitrotoluenes 150 Chloronitrotoluenes	2742	27/	27/	7/12	
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Chlorobenzyl chlorides o-Chlorobenzylidene malononitrile 153 2810 Chloronitroanilines Chloronitrobenzenes 153 Chloronitrobenzenes Chloronitrobenzenes, liquid 152 Chlorocresols Chlorocresols, liquid 153 2810 Chloronitrobenzenes Chloronitrobenzenes, solid Chloronitrobenzenes, solid 152 Chlorocresols Chloronitrotoluenes Chloronitrotoluenes 152 Chlorocresols, liquid 153 Chloronitrobenzenes Chloronitrotoluenes Chloronitrotoluenes 152 Chloronitrotoluenes Chloronitrotoluenes, liquid 153 Chloronitrobenzenes, liquid 154 Chloronitrotoluenes Chloronitrotoluenes Chloronitrotoluenes 155 Chloronitrotoluenes 156 Chloronitrotoluenes 157 Chloronitrotoluenes 158 Chloronitrobenzenes, liquid 159 Chloronitrotoluenes 150 Chloronitrobenzenes, solid 150 Chloronitrotoluenes 151 Chloronitrobenzenes 152 Chloronitrotoluenes 153 Chloronitrobenzenes 154 Chloronitrobenzenes, liquid 155 Chloronitrobenzenes, solid 157 Chloronitrobenzenes 158 Chloronitrobenzenes 159 Chloronitrobenzenes, solid 150 Chloronitrobenzenes 150 Chloronitrobenzenes 151 Chloronitrobenzenes 152 Chloronitrobenzenes 153 Chloronitrobenzenes 154 Chloronitrobenzenes 155 Chloronitrobenzenes 157 Chloronitrobenzenes 158 Chloronitrobenzenes 159 Chloronitrobenzenes 150 Chloronitrobenzenes 150 Chloronitrobenzenes 150 Chloronitrobenzenes 151 Chloronitrobenzenes 152 Chloronitrobenzenes 153 Chloronitrobenzenes 155 Chloronitrobenzenes 155 Chloronitrobenzenes 157 Chloronitrobenzenes 158 Chloronitrobenzenes 159 Chloronitrobenzenes 150 Chloronitrobenzenes	2354	235	235	354	
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3-Chloro-4-diethylamino- 149 3033 Chloropentafluoroethane 126 benzenediazonium Chloropentafluoroethane and 126	10201973				
zinc chloride Chlorodifluoromethane	17/3	17/	17/	713	
Chlorodifluorobromomethane 126 1974 mixture					

Name of Material G	Guide No.	ID No.	Name of Material	Guide No.	ID No.
3-Chloroperoxybenzoic acid	146	2755	Chlorosilanes, n.o.s.	155	2985
Chlorophenates, liquid	154	2904	Chlorosilanes, n.o.s.	155	2986
Chlorophenates, solid	154	2905	Chlorosilanes, n.o.s.	156	2987
Chlorophenolates, liquid	154	2904	Chlorosilanes, n.o.s.	139	2988
Chlorophenolates, solid	154	2905	Chlorosilanes, water-reactive,	139	2988
Chlorophenols, liquid	153	2021	flammable, corrosive, n.o.s.		
Chlorophenols, solid	153	2020	Chlorosulfonic acid	137	1754
Chlorophenyltrichlorosilane	156	1753	Chlorosulfonic acid and Sulfur	137	1754
Chloropicrin	154	1580	trioxide mixture	127	175/
Chloropicrin, absorbed	154	1583	Chlorosulphonic acid Chlorosulphonic acid and	137 137	1754
Chloropicrin and Methyl bromide mixture	123	1581	Sulphur trioxide mixture		1754
Chloropicrin and Methyl chloride mixture	119	1582	1-Chloro-1,2,2,2- tetrafluoroethane	126	1021
Chloropicrin and non-flammable,	123	1955	Chlorotetrafluoroethane	126	1021
non-liquefied compressed gas mixture		1733	Chlorotetrafluoroethane and Ethylene oxide mixture, with	126	3297
Chloropicrin mixture, flammable		2929	not more than 8.8% Ethylene oxide		
Chloropicrin mixture, n.o.s.	154	1583	Chlorotoluenes	130	2238
Chloropivaloyl chloride	156	9263	4-Chloro-o-toluidine	153	1579
Chloroplatinic acid, solid	154	2507	hydrochloride		
Chloroprene, inhibited	131P		Chlorotoluidines	153	2239
1-Chloropropane	129	1278	Chlorotoluidines, liquid	153	2239
2-Chloropropane	129	2356	Chlorotoluidines, solid	153	2239
3-Chloropropanol-1	153	2849	1-Chloro-2,2,2-trifluoroethane	126	1983
2-Chloropropene	130P		Chlorotrifluoroethane	126	1983
2-Chloropropionic acid	153	2511	Chlorotrifluoromethane	126	1022
alpha-Chloropropionic acid	153	2511	Chlorotrifluoromethane and Trifluoromethane azeotropic	126	2599
2-Chloropyridine	153	2822	mixture with approximately		
Chlorosilanes, corrosive, flammable, n.o.s.	155	2986	60% Chlorotrifluoromethane Chlorpyrifos	152	2783
Chlorosilanes, corrosive, n.o.s.	156	2987	Chromic acetate	171	9101
Chlorosilanes, flammable,	155	2985	Chromic acid, solid	141	1463
corrosive, n.o.s.			Chromic acid, solution	154	1755

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Chromic acid mixture, dry	141	1463	Combustible liquid, n.o.s.	128	1993
Chromic fluoride, solid	154	1756	Compound, cleaning liquid	157	1789
Chromic fluoride, solution	154	1757	(containing Hydrochloric (muriatic) acid)		
Chromic sulfate	171	9100	Compound, cleaning liquid	157	1790
Chromic sulphate	171	9100	(containing Hydrofluoric acid		1/90
Chromium nitrate	141	2720	Compound, rust preventing	154	1760
Chromium oxychloride	137	1758	(corrosive)		
Chromium trioxide, anhydrous	141	1463	Compound, rust removing	154	1760
Chromosulfuric acid	154	2240	(corrosive)		
Chromosulphuric acid	154	2240	Compound, tree or weed killing, liquid (corrosive)	154	1760
Chromous chloride	171	9102	Compound, tree or weed killing,	128	1993
Cigarette lighter, with flammabl gas	e 115	1057	liquid (flammable)		
Cigarette lighter, with flammabl	e 127	1226	Compound, tree or weed killing, liquid (toxic)		2810
Cigarettes, self-lighting	133	1867	Compound, tree or weed killing, solid (oxidizer)	140	1479
CK	125	1589	Compound, vulcanizing, liquid	154	1760
Clinical waste, unspecified, n.o.s.	158	3291	(corrosive) Compound, vulcanizing, liquid	127	1142
CN	153	1697	(flammable)		
Coal gas	119	1023	Compounds, cleaning, liquid	154	1760
Coal gas, compressed	119	1023	(corrosive)	128	1993
Coal tar distillate	128	1137	Compounds, cleaning, liquid (flammable)	120	1993
Coal tar distillates, flammable	128	1136	Compounds, polishing, liquid,	127	1142
Coal tar dye, liquid	154	2801	etc. (flammable)		
Coating solution	127	1139	Compressed gas, flammable,	115	1954
Cobalt naphthenates, powder	133	2001	n.o.s.		
Cobaltous bromide	171	9103	Compressed gas, flammable, poisonous, n.o.s. (Inhalation	119	1953
Cobaltous formate	171	9104	Hazard Zone A)		
Cobaltous sulfamate	171	9105	Compressed gas, flammable,	119	1953
Cobaltous sulphamate	171	9105	poisonous, n.o.s. (Inhalation		
Cobalt resinate, precipitated	133	1318	Hazard Zone B)	440	105
Cocculus	151	1584	Compressed gas, flammable, poisonous, n.o.s. (Inhalation	119	1953
Collodion	127	2059	Hazard Zone C)		

Guide No.	ID No.	Name of Material		
119	1953	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	119	3305
119	1953	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	119	3305
119	1953	Compressed gas, poisonous, flammable, n.o.s.	119	1953
119	1953			1953
119	1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	119	1953
126	1956	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	119	1953
123	3304		119	1953
123	3304	Compressed gas, poisonous, n.o.s.	123	1955
123	3304	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	123	1955
123	3304	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	123	1955
123	3304	Compressed gas, poisonous, n.o.s. (Inhalation Hazard	123	1955
110	2205	Compressed gas, poisonous,	123	1955
119	3305	Zone D)		
119	3305	oxidizing, corrosive, n.o.s.		3306
119	3305	oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	124	3300
	No. 119 119 119 119 119 126 122 123 123 123 123 123 119 119	No. No. 119 1953 119 1953 119 1953 119 1953 119 1953 126 1956 122 3156 123 3304 123 3304 123 3304 123 3304 119 3305 119 3305 119 3305	No. No. 119 1953	No. No. 119 1953 Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C) 119 1953 Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D) 119 1953 Compressed gas, poisonous, flammable, n.o.s. Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A) Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B) Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B) Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C) Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone D) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone A) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone A) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone B) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone B) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone C) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone D) Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone D)

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	124	3306	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	119	3305
Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	124	3306	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	119	330
Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	124	3306	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	119	330
Compressed gas, poisonous, oxidizing, n.o.s.	124	3303	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	119	330
Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)	124	3303	Compressed gas, toxic, flammable, n.o.s.	119	195
Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	124	3303	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	119	195
Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	124	3303	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	119	195
Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	124	3303	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	119	195
Compressed gas, toxic, corrosive, n.o.s.	123	3304	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	119	195
Compressed gas, toxic, corrosive, n.o.s. (Inhalation	123	3304	Compressed gas, toxic, n.o.s.	123	195
Hazard Zone A) Compressed gas, toxic,	123	3304	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone A)	123	195
corrosive, n.o.s. (Inhalation Hazard Zone B)			Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone B)	123	195
Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)	123	3304	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone C)	123	195
Compressed gas, toxic, corrosive, n.o.s. (Inhalation	123	3304	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone D)	123	195
Hazard Zone D)			Compressed gas, toxic, oxidizing, corrosive, n.o.s.	124	330
Compressed gas, toxic, flammable, corrosive, n.o.s.	119	3305	J ,		

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	124	3306	Copper based pesticide, liquid, toxic, flammable	131	3009
Compressed gas, toxic,	124	3306	Copper based pesticide, solid, poisonous	151	2775
oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)			Copper based pesticide, solid, toxic	151	2775
Compressed gas, toxic, oxidizing, corrosive, n.o.s.	124	3306	Copper chlorate	141	2721
(Inhalation Hazard Zone C)			Copper chloride	154	2802
Compressed gas, toxic,	124	3306	Copper cyanide	151	1587
oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)			Copra	135	1363
Compressed gas, toxic,	124	3303	Corrosive liquid, acidic, inorganic, n.o.s.	154	3264
oxidizing, n.o.s. Compressed gas, toxic,	124	3303	Corrosive liquid, acidic, organic	, 153	3265
oxidizing, n.o.s. (Inhalation Hazard Zone A)	124	3303	n.o.s. Corrosive liquid, basic, inorganic, n.o.s.	154	3266
Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	124	3303	Corrosive liquid, basic, organic, n.o.s.	153	3267
Compressed gas, toxic, oxidizing, n.o.s. (Inhalation	124	3303	Corrosive liquid, flammable, n.o.s.	132	2920
Hazard Zone C)			Corrosive liquid, n.o.s.	154	1760
Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	124	3303	Corrosive liquid, oxidizing, n.o.s.	140	3093
Consumer commodity	171	8000	Corrosive liquid, poisonous, n.o.s.	154	2922
Copper acetoarsenite	151	1585	Corrosive liquid, self-heating,	136	3301
Copper accidarsemite	151	1586	n.o.s.		
Copper based pesticide, liquid,		2776	Corrosive liquid, toxic, n.o.s.	154	2922
flammable, poisonous	-	-	Corrosive liquid, water-reactive,	138	3094
Copper based pesticide, liquid, flammable, toxic	131	2776	n.o.s. Corrosive liquid, which in	138	3094
Copper based pesticide, liquid, poisonous	151	3010	contact with water emits flammable gases, n.o.s.		
Copper based pesticide, liquid, poisonous, flammable	131	3009	Corrosive solid, acidic, inorganic, n.o.s.	154	3260
Copper based pesticide, liquid, toxic	151	3010	Corrosive solid, acidic, organic, n.o.s.	154	3261

Name of Material	Guide	ID	Name of Material	Guide	ID
	No.	No.		No.	No.
Corrosive solid, basic, inorganic, n.o.s.	154	3262	Coumarin derivative pesticide, liquid, toxic, flammable	131	3025
Corrosive solid, basic, organic, n.o.s.	154	3263	Coumarin derivative pesticide, solid, poisonous	151	3027
Corrosive solid, flammable, n.o.s	. 134	2921	Coumarin derivative pesticide,	151	3027
Corrosive solid, n.o.s.	154	1759	solid, toxic		
Corrosive solid, oxidizing, n.o.s	s. 140	3084	Cresols	153	2076
Corrosive solid, poisonous,	154	2923	Cresylic acid	153	2022
n.o.s.			Crotonaldehyde, inhibited	131P	1143
Corrosive solid, self-heating,	136	3095	Crotonaldehyde, stabilized	131P	1143
n.o.s.	454		Crotonic acid	153	2823
Corrosive solid, toxic, n.o.s.	154	2923	Crotonic acid, liquid	153	2823
Corrosive solid, water-reactive n.o.s.	, 138	3096	Crotonic acid, solid	153	2823
Corrosive solid, which in contact	^† 138	3096	Crotonylene	128	1144
with water emits flammable	J. 130	3070	CS	153	2810
gases, n.o.s.			Cumene	130	1918
Cosmetics, liquid, n.o.s.	154	1760	Cumene hydroperoxide	147	2116
Cosmetics, n.o.s.	133	1325	Cupric acetate	171	9106
Cosmetics, n.o.s.	140	1479	Cupric sulfate	171	9109
Cosmetics, n.o.s.	128	1993	Cupric sulfate, ammoniated	171	9110
Cosmetics, solid, n.o.s.	154	1759	Cupric sulphate	171	9109
Cotton	133	1365	Cupric sulphate, ammoniated	171	9110
Cotton, wet	133	1365	Cupric tartrate	171	9111
Cotton waste, oily	133	1364	Cupriethylenediamine, solution	154	1761
Coumaphos	152	2783	CX	154	2811
Coumarin derivative pesticide,	131	3024	Cyanide solution, n.o.s.	157	1935
liquid, flammable, poisonous			Cyanides, inorganic, n.o.s.	157	1588
Coumarin derivative pesticide, liquid, flammable, toxic	131	3024	Cyanides, inorganic, solid, n.o.s.	157	1588
Coumarin derivative pesticide, liquid, poisonous	151	3026	Cyanogen	119	1026
Coumarin derivative pesticide,	131	3025	Cyanogen, liquefied	119	1026
liquid, poisonous, flammable	!		Cyanogen bromide	157	1889
Coumarin derivative pesticide,	151	3026	Cyanogen chloride, inhibited	125	1589
liquid, toxic			Cyanogen gas	119	1026

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Cyanuric chloride	157	2670	DA	151	1699
Cyclobutane	115	2601	Dangerous goods in apparatus	171	8001
Cyclobutyl chloroformate	155	2744	Dangerous goods in machinery	171	8001
1,5,9-Cyclododecatriene	153	2518	DC	153	2810
Cycloheptane	128	2241	DDT	151	2761
Cycloheptatriene	131	2603	Decaborane	134	1868
Cycloheptene	128	2242	Decahydronaphthalene	130	1147
Cyclohexane	128	1145	n-Decane	128	2247
Cyclohexanethiol	131	3054	Decanoyl peroxide	148	2120
Cyclohexanone	127	1915	Denatured alcohol	127	1987
Cyclohexanone peroxide, not	147	2896	Denatured alcohol (toxic)	131	1986
more than 72% as a paste			Deuterium	115	1957
Cyclohexanone peroxide, not more than 72% in solution	147	2118	Deuterium, compressed	115	1957
Cyclohexanone peroxide, not more than 90%, with not less	147	2119	Devices, small, hydrocarbon gas powered, with release device	115	3150
than 10% water	,		Diacetone alcohol	129	1148
Cyclohexene	130	2256	Diacetone alcohol peroxides	148	2163
Cyclohexenyltrichlorosilane	156	1762	Diacetyl	127	2346
Cyclohexyl acetate	130	2243	Diallylamine	132	2359
Cyclohexylamine	132	2357	Diallyl ether	131P	2360
Cyclohexyl isocyanate	155	2488	4,4'-Diaminodiphenylmethane	153	2651
Cyclohexyl mercaptan	131	3054	Di-n-amylamine	131	2841
Cyclohexyltrichlorosilane	156	1763	Diazinon	152	2783
Cyclooctadiene phosphines	135	2940	2-Diazo-1-naphthol-4-	149	3042
Cyclooctadienes	130P	2520	sulfochloride	140	2042
Cyclooctatetraene	128P	2358	2-Diazo-1-naphthol-4- sulphochloride	149	3042
Cyclopentane	128	1146	2-Diazo-1-naphthol-5-	149	3043
Cyclopentanol	129	2244	sulfochloride		30.0
Cyclopentanone	127	2245	2-Diazo-1-naphthol-5-	149	3043
Cyclopentene	128	2246	sulphochloride		
Cyclopropane	115	1027	Dibenzyldichlorosilane	156	2434
Cyclopropane, liquefied	115	1027	Dibenzyl peroxydicarbonate	148	2149
Cymenes	130	2046	Diborane	119	1911

Name of Material (Guide No.	ID No.	Name of Material (Guide No.	ID No.
Diborane, compressed	119	1911	Di-(tert-butylperoxy)phthalate	145	2108
Diborane mixtures	119	1911	2,2-Di-(tert-butylperoxy)-propane	145	2883
Dibromobenzene	129	2711	2,2-Di-(tert-butylperoxy)-propane	145	2884
1,2-Dibromobutan-3-one	154	2648	1,1-Di-(tert-butylperoxy)-3,3,5-	146	2145
Dibromochloropropanes	159	2872	trimethyl cyclohexane		
Dibromodifluoromethane	171	1941	1,1-Di-(tert-butylperoxy)-3,3,5- trimethyl cyclohexane	145	2146
Dibromomethane	160	2664	1,1-Di-(tert-butylperoxy)-3,3,5-	145	2147
Di-n-butylamine	132	2248	trimethyl cyclohexane	143	2147
Dibutylaminoethanol	153	2873	Dicetyl peroxydicarbonate	148	2164
Di-(4-tert-butylcyclohexyl)- peroxydicarbonate	148	2154	Dicetyl peroxydicarbonate, not more than 42%, in water	148	2895
Di-(4-tert-butylcyclohexyl)-	148	2894	Dichloroacetic acid	153	1764
peroxydicarbonate	407	1110	1,3-Dichloroacetone	153	2649
Dibutyl ethers	127	1149	Dichloroacetyl chloride	156	1765
Di-tert-butyl peroxide	145	2102	Dichloroanilines	153	1590
2,2-Di-(tert-butylperoxy)butane	146	2111	Dichloroanilines, liquid	153	1590
1,1-Di-(tert-butylperoxy)- cyclohexane	146	2179	Dichloroanilines, solid	153	1590
1,1-Di-(tert-butylperoxy)-	146	2180	m-Dichlorobenzene	152	
cyclohexane			o-Dichlorobenzene	152	1591
1,1-Di-(tert-butylperoxy)-	145	2885	p-Dichlorobenzene	152	1592
cyclohexane			2,4-Dichlorobenzoyl peroxide	146	2137
1,1-Di-(tert-butylperoxy)- cyclohexane	145	2897	2,4-Dichlorobenzoyl peroxide	145	2138
Di-(sec-butyl)peroxydicarbonate	148	2150	2,4-Dichlorobenzoyl peroxide	145	2139
Di-(sec-butyl)peroxydicarbonate		2151	Dichlorobutene	132	2920
1,3-Di-(2-tert-butylperoxy-	145	2112	Dichlorobutene	132	2924
isopropyl)benzene and	175	Z11Z	Dichloro-(2-chlorovinyl) arsine	153	2810
1,4-Di-(2-tert-butylperoxy-			2,2'-Dichlorodiethyl ether	152	1916
isopropyl)benzene mixtures	1/5	2112	Dichlorodifluoroethylene	160	9018
1,4-Di-(2-tert-butylperoxy- isopropyl)benzene and	145	2112	Dichlorodifluoromethane	126	1028
1,3-Di-(2-tert-butylperoxy- isopropyl)benzene mixtures			Dichlorodifluoromethane and Difluoroethane azeotropic	126	2602
Di-(tert-butylperoxy)phthalate	146	2106	mixture with approximately 74% Dichlorodifluoromethane		
Di-(tert-butylperoxy)phthalate	145	2107	, 170 Blomor Samuol Smothano		

Name of Material G	uide No.	ID No.	Name of Material (Guide No.	ID No.
Dichlorodifluoromethane and	126	3070	Dichlorotetrafluoroethane	126	1958
Ethylene oxide mixture, with not more than 12.5% Ethylene oxide			3,5-Dichloro-2,4,6- trifluoropyridine	151	9264
Dichlorodifluoromethane and	126	3070	Dichlorvos	152	2783
Ethylene oxide mixtures, with	120	3070	Dicumyl peroxide	145	2121
not more than 12% Ethylene			Dicycloheptadiene	127P	2251
oxide	152	2240	Dicyclohexylamine	153	2565
Dichlorodimethyl ether, symmetrical	153	2249	Dicyclohexylammonium nitrite	133	2687
Dichlorodiphenyltrichloroethane	151	2761	Dicyclohexyl peroxydicarbonate	148	2152
(DDT)			Dicyclohexyl peroxydicarbonate	148	2153
1,1-Dichloroethane	130	2362	Dicyclopentadiene	129	2048
1,2-Dichloroethylene	130P	1150	2,2-Di-(4,4-di-tert-butyl-	145	2168
Dichloroethylene	130P	1150	peroxycyclohexyl)propane		
Dichloroethyl ether	152	1916	1,2-Di-(dimethylamino)ethane	129	2372
1,1-Dichloro-1-fluoroethane	160	9274	Didymium nitrate	140	1465
Dichlorofluoromethane	126	1029	Dieldrin	151	2761
Dichloroisocyanuric acid, dry	140	2465	Diesel fuel	128	1202
Dichloroisocyanuric acid salts	140	2465	Diesel fuel	128	1993
Dichloroisopropyl ether	153	2490	Diethoxymethane	127	2373
Dichloromethane	160	1593	2,5-Diethoxy-4-morpholino- benzenediazonium	150	3036
1,1-Dichloro-1-nitroethane	153	2650	zinc chloride		
Dichloropentanes	130	1152	3,3-Diethoxypropene	127	2374
2,4-Dichlorophenoxyacetic acid	152	2765	Diethylamine	132	1154
Dichlorophenyl isocyanates	156	2250	2-Diethylaminoethanol	132	2686
Dichlorophenyltrichlorosilane	156	1766	Diethylaminoethanol	132	2686
1,2-Dichloropropane	130	1279	3-Diethylaminopropylamine	132	2684
Dichloropropane	130	1279	Diethylaminopropylamine	132	2684
1,3-Dichloropropanol-2	153	2750	N,N-Diethylaniline	153	2432
Dichloropropenes	132	2047	Diethylbenzene	130	2049
2,2-Dichloropropionic acid	154	1760	Diethyl carbonate	127	2366
Dichlorosilane	119	2189	Diethyldichlorosilane	155	1767
1,2-Dichloro-1,1,2,2-	126	1958	Diethylenetriamine	154	2079
tetrafluoroethane			Diethyl ether	127	1155

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
N,N-Diethylethylenediamine	132	2685	Diisobutyl ketone	127	1157
Di-(2-ethylhexyl)-	148	2122	Diisobutyryl peroxide	148	2182
peroxydicarbonate			Diisooctyl acid phosphate	153	1902
Di-(2-ethylhexyl)- peroxydicarbonate	148	2123	Diisopropylamine	132	1158
Di-(2-ethylhexyl)phosphoric acid	153	1902	Diisopropylbenzene hydroperoxide	145	2171
Diethyl ketone	127	1156	Diisopropyl ether	127	1159
p-Diethylnitrosoaniline	136		Diisotridecyl peroxydicarbonate	148	2889
Diethyl peroxydicarbonate	148	2175	Diketene, inhibited	131P	2521
Diethyl sulfate	152	1594	1,1-Dimethoxyethane	127	2377
Diethyl sulfide	129	2375	1,2-Dimethoxyethane	127	2252
Diethyl sulphate	152	1594	Dimethylamine, anhydrous	118	1032
Diethyl sulphide	129	2375	Dimethylamine, aqueous	129	1160
Diethylthiophosphoryl chloride	155	2751	solution	400	4411
Diethylzinc	135	1366	Dimethylamine, solution	129	1160
Difluorochloroethanes	115	2517	2-Dimethylaminoacetonitrile	131	2378
1,1-Difluoroethane	115	1030	4-Dimethylamino-6-(2-dimethyl- aminoethoxy)toluene-2-	150	3039
Difluoroethane	115	1030	diazonium zinc chloride		
Difluoroethane and	126	2602	2-Dimethylaminoethanol	132	2051
Dichlorodifluoromethane	120	2002	2-Dimethylaminoethyl acrylate	152	3302
azeotropic mixture with approximately 74% dichlorodifluoromethane			2-Dimethylaminoethyl methacrylate	153P	2522
1,1-Difluoroethylene		1959	Dimethylaminoethyl methacrylate	153P	2522
Difluoromethane	115	3252	N,N-Dimethylaniline	153	2253
Difluorophosphoric acid, anhydrous	154	1768	Di-(2-methylbenzoyl)peroxide	148	2593
2,2-Dihydroperoxypropane	146	2178	2,3-Dimethylbutane	128	2457
2,3-Dihydropyran	140	2376	1,3-Dimethylbutylamine	132	2379
Di-(1-hydroxycyclohexyl)-	145	2148	Dimethylcarbamoyl chloride	156	2262
peroxide	140	Z140	Dimethyl carbonate	129	1161
Diisobutylamine	132	2361	Dimethyl chlorothiophosphate	156	2267
Diisobutylene, isomeric	127	2050	Dimethylcyclohexanes	128	2263
compounds			Dimethylcyclohexylamine	132	2264

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
2,5-Dimethyl-2,5-di-	146	2172	2,2-Dimethylpropane	115	2044
(benzoylperoxy)hexane			Dimethyl-N-propylamine	132	2266
2,5-Dimethyl-2,5-di- (benzoylperoxy)hexane	145	2173	Dimethyl sulfate	156	1595
2,5-Dimethyl-2,5-di-(tert-	145	2155	Dimethyl sulfide	130	1164
butylperoxy)hexane		2100	Dimethyl sulphate	156	1595
2,5-Dimethyl-2,5-di-(tert-	145	2156	Dimethyl sulphide	130	1164
butylperoxy)hexane			Dimethyl thiophosphoryl chlorid	e 156	2267
2,5-Dimethyl-2,5-di-(tert-	146	2158	Dimethylzinc	135	1370
butylperoxy)hexyne-3	145	2150	Dimyristyl peroxydicarbonate	148	2595
2,5-Dimethyl-2,5-di-(tert- butylperoxy)hexyne-3, with not more than 52% Peroxide i		2159	Dimyristyl peroxydicarbonate, not more than 42%, in water	148	2892
inert solid			Dinitroanilines	153	1596
Dimethyldichlorosilane	155	1162	Dinitrobenzenes	152	1597
Dimethyldiethoxysilane	127	2380	Dinitrochlorobenzene	153	1577
2,5-Dimethyl-2,5-di-(2-ethyl-	148	2157	Dinitro-o-cresol	153	1598
hexanoylperoxy)hexane			Dinitrocyclohexylphenol	153	9026
2,5-Dimethyl-2,5-dihydroperoxy	146	2174	Dinitrogen tetroxide	124	1067
hexane, not more than 82% with water			Dinitrogen tetroxide, liquefied	124	1067
Dimethyldioxanes	128	2707	Dinitrogen tetroxide and Nitric oxide mixture	124	1975
Dimethyl disulfide	130	2381	Dinitrophenol, solution	153	1599
Dimethyl disulphide	130	2381	Dinitrophenol, wetted with not	113	1320
Dimethylethanolamine	132	2051	less than 15% water	110	1320
Dimethyl ether	115	1033	Dinitrophenolates, wetted with	113	1321
N,N-Dimethylformamide	129	2265	not less than 15% water		
Dimethylhexane dihydroperoxide, with 18% or	146	2174	Dinitroresorcinol, wetted with not less than 15% water	113	1322
more water	46:	44/2	N,N'-Dinitroso-N,N'-dimethyl	149	2973
I,1-Dimethylhydrazine	131	1163	terephthalamide	140	2072
I,2-Dimethylhydrazine	131	2382	N,N'-Dinitrosopentamethylene tetramine	149	2972
Dimethylhydrazine, symmetrica		2382	Dinitrotoluenes	152	2038
Dimethylhydrazine, unsymmetrical	131	1163	Dinitrotoluenes, liquid	152	2038
Dimethyl	156	2267	Dinitrotoluenes, molten	152	1600
phosphorochloridothioate			Dinitrotoluenes, solid	152	2038

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Dioxane	127	1165	Disinfectant, solid, toxic, n.o.s.	151	1601
Dioxolane	127	1166	Disinfectants, corrosive, liquid,	153	1903
Dipentene	128	2052	n.o.s.		
Diphenylamine chloroarsine	154	1698	Disinfectants, liquid, n.o.s.	151	314
Diphenylchloroarsine	151	1699	(poisonous)	151	1/0
Diphenylchloroarsine, liquid	151	1699	Disinfectants, solid, n.o.s. (poisonous)	151	160
Diphenylchloroarsine, solid	151	1699	Disodium trioxosilicate	154	325
Diphenylcyanoarsine	153	2810	Disodium trioxosilicate,	154	325
Diphenyldichlorosilane	156	1769	pentahydrate		
Diphenylmethane-4,4'-	156	2489	Dispersant gas, n.o.s.	126	107
diisocyanate Diphenylmethyl bromide	153	1770	Dispersant gas, n.o.s. (flammable)	115	195
Diphenyloxide-4,4'-	149	2951	Distearyl peroxydicarbonate	145	259
disulfohydrazide			Disulfoton	152	278
Diphenyloxide-4,4'- disulphohydrazide	149	2951	Dithiocarbamate pesticide, liquid, flammable, poisonous	131	277
Diphosgene	125	1076	Dithiocarbamate pesticide,	131	277
Dipicryl sulfide, wetted with not less than 10% water	113	2852	liquid, flammable, toxic Dithiocarbamate pesticide,	151	300
Dipicryl sulphide, wetted with	113	2852	liquid, poisonous	131	300
not less than 10% water	122	2383	Dithiocarbamate pesticide, liquid, poisonous, flammable	131	300
Dipropylamine 4 Dipropylaminehonzone	132		Dithiocarbamate pesticide,	151	300
4-Dipropylaminobenzene- diazonium zinc chloride	149	3034	liquid, toxic	131	300
Di-n-propyl ether	127	2384	Dithiocarbamate pesticide,	131	300
Dipropyl ether	127	2384	liquid, toxic, flammable		
Dipropyl ketone	127	2710	Dithiocarbamate pesticide,	151	277
Di-n-propyl peroxydicarbonate	148	2176	solid, poisonous Dithiocarbamate pesticide,	151	277
Disinfectant, liquid, corrosive, n.o.s.	153	1903	solid, toxic		
Disinfectant, liquid, n.o.s.	128	1993	Di-(3,5,5-trimethyl-1,2- dioxolanyl-3)peroxide	148	259
Disinfectant, liquid, poisonous,	151	3142	Divinyl ether, inhibited	131P	116
n.o.s.	454	0140	DM	154	169
Disinfectant, liquid, toxic, n.o.s		3142	Dodecylbenzenesulfonic acid	153	258
Disinfectant, solid, poisonous,n.o	.S. 151	1601	Dodecylbenzenesulphonic acid	153	258

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Dodecyltrichlorosilane	156	1771	Elevated temperature liquid,	128	3256
DP	125	1076	flammable, n.o.s., with flash point above 60.5°C (141°F),		
Driers, paint or varnish, liquid, n.o.s.	127	1168	at or above its flash point	100	2257
Drugs, liquid, n.o.s.	154	1760	Elevated temperature liquid, n.o.s., at or above 100°C	128	3257
Drugs, liquid, n.o.s.	153	2810	(212°F) and below its flash		
Drugs, n.o.s.	133	1325	point		
Drugs, n.o.s.	140	1479	Elevated temperature material, liquid, n.o.s., (at or above	128	9259
Drugs, n.o.s.	128	1993	100°C (212°F) and below its		
Drugs, solid, n.o.s.	154	1759	flash point)		
Drugs, solid, n.o.s.	154	2811	Elevated temperature solid,	171	3258
Dry ice	120	1845	n.o.s., at or above 240°C (464°F)		
Dye, liquid, corrosive, n.o.s.	154	2801	Endosulfan	151	2761
Dye, liquid, poisonous, n.o.s.	151	1602	Engine starting fluid	115	1960
Dye, liquid, toxic, n.o.s.	151	1602	Engines, internal combustion,	128	3166
Dye, solid, corrosive, n.o.s.	154	3147	flammable gas powered	120	0100
Dye, solid, poisonous, n.o.s.	151	3143	Engines, internal combustion,	128	3166
Dye, solid, toxic, n.o.s.	151	3143	flammable liquid powered		
Dye intermediate, liquid, corrosive, n.o.s.	154	2801	Engines, internal combustion, including when fitted in	128	3166
Dye intermediate, liquid, poisonous, n.o.s.	151	1602	machinery or vehicles Environmentally hazardous	171	3082
Dye intermediate, liquid, toxic, n.o.s.	151	1602	substances, liquid, n.o.s. Environmentally hazardous	171	3077
Dye intermediate, solid, corrosive, n.o.s.	154	3147	substances, solid, n.o.s. Epibromohydrin	131	2558
Dye intermediate, solid,	151	3143	Epichlorohydrin	131P	2023
poisonous, n.o.s.			1,2-Epoxy-3-ethoxypropane	127	2752
Dye intermediate, solid, toxic,	151	3143	Esters, n.o.s.	127	3272
n.o.s.	154	1000	Etching acid, liquid, n.o.s.	157	1790
EDTA	151	1892	Ethane	115	1035
EDTA	171	9117	Ethane, compressed	115	1035
Elevated temperature liquid, flammable, n.o.s., with flash	128	3256	Ethane, refrigerated liquid	115	1961
point above 37.8°C (100°F), at or above its flash point			Ethane-Propane mixture, refrigerated liquid	115	1961

Name of Material	Guide No.	ID No.	Name of Material C	Suide No.	ID No.
Ethanol	127	1170	Ethyl 2-chloropropionate	132	2935
Ethanol, solution	127	1170	Ethyl chlorothioformate	155	2826
Ethanolamine	153	2491	Ethyl crotonate	129	1862
Ethanolamine, solution	153	2491	Ethyl cyanoacetate	156	2666
Ethers, n.o.s.	127	3271	Ethyl-3,3-di-(tert-butyl-	146	2184
Ethion	152	2783	peroxy)butyrate		
Ethyl acetate	129	1173	Ethyl-3,3-di-(tert- butylperoxy)butyrate	145	2598
Ethylacetylene, inhibited	116P	2452	Ethyl-3,3-di-(tert-butyl-	145	2185
Ethyl acrylate, inhibited	129P	1917	peroxy)butyrate, not more	143	2100
Ethyl alcohol	127	1170	than 77% in solution		
Ethyl alcohol, solution	127	1170	Ethyldichloroarsine	151	1892
Ethylamine	118	1036	Ethyldichlorosilane	139	1183
Ethylamine, aqueous solution, with not less than 50% but no	132 t	2270	O-Ethyl S-(2-diisopropylamino- ethyl) methylphosphonothiola	153 ite	2810
more than 70% Ethylamine Ethyl amyl ketone	127	2271	Ethyl N,N-dimethylphosphor- amidocyanidate	153	2810
2-Ethylaniline	153	2273	Ethylene	116P	1962
N-Ethylaniline	153	2272	Ethylene, Acetylene and	116	3138
Ethylbenzene	129	1175	Propylene in mixture,		
N-Ethyl-N-benzylaniline	153	2274	refrigerated liquid containing at least 71.5% Ethylene with		
N-Ethylbenzyltoluidines	153	2753	not more than 22.5%		
Ethyl borate	129	1176	Acetylene and not more than 6% Propylene		
Ethyl bromide	131	1891	Ethylene, compressed	116P	1962
Ethyl bromoacetate	155	1603	Ethylene, refrigerated liquid	115	1038
2-Ethylbutanol	129	2275	(cryogenic liquid)		. 500
2-Ethylbutyl acetate	129	1177	Ethylene chlorohydrin	131	1135
Ethylbutyl acetate	129	1177	Ethylenediamine	132	1604
Ethyl butyl ether	127	1179	Ethylenediaminetetraacetic acid	171	9117
2-Ethylbutyraldehyde	129	1178	Ethylene dibromide	154	1605
Ethyl butyrate	129	1180	Ethylene dibromide and Methyl	151	1647
Ethyl chloride	115	1037	bromide mixture, liquid		
Ethyl chloroacetate	155	1181	Ethylene dichloride	129	1184
Ethyl chloroformate	155	1182	Ethylene glycol diethyl ether	127	1153
			Ethylene glycol monobutyl ether		2369 ge 13

			None of Martin	0	I.C.
Name of Material (Suide No.	ID No.	Name of Material	Guide No.	Nο.
Ethylene glycol monoethyl ether	127	1171	Ethylene oxide and Propylene	129P	2983
Ethylene glycol monoethyl ether acetate	129	1172	oxide mixture, with not more than 30% Ethylene oxide		
Ethylene glycol monomethyl ether	127	1188	Ethylene oxide and Tetrafluoroethane mixture,	126	3299
Ethylene glycol monomethyl ether acetate	129	1189	with not more than 5.6% Ethylene oxide		
Ethyleneimine, inhibited	131P	1185	Ethylene oxide with Nitrogen	119P	1040
Ethylene oxide	119P	1040	Ethyl ether	127	1155
Ethylene oxide and Carbon	115	1041	Ethyl fluoride	115	2453
dioxide mixture, with more than 9% but not more than			Ethyl formate	129	1190
87% Ethylene oxide			Ethylhexaldehydes	129	1191
Ethylene oxide and Carbon	119P	3300	2-Ethylhexylamine	132	2276
dioxide mixture, with more than 87% Ethylene oxide			2-Ethylhexyl chloroformate	156	2748
Ethylene oxide and Carbon	115	1041	Ethyl isobutyrate	129	2385
dioxide mixtures, with more	110	1011	Ethyl isocyanate	155	2481
than 6 % Ethylene oxide			Ethyl lactate	129	1192
Ethylene oxide and Carbon	126	1952	Ethyl mercaptan	130	2363
dioxide mixtures, with not more than 6% Ethylene oxide			Ethyl methacrylate	129P	2277
Ethylene oxide and Carbon	126	1952	Ethyl methacrylate, inhibited	129P	2277
dioxide mixtures, with not			Ethyl methyl ether	115	1039
more than 9% Ethylene oxide			Ethyl methyl ketone	127	1193
Ethylene oxide and Chlorotetrafluoroethane	126	3297	Ethyl nitrate	128	1993
mixture, with not more than			Ethyl nitrite, solution	131	1194
8.8% Ethylene oxide			Ethyl orthoformate	129	2524
Ethylene oxide and	126	3070	Ethyl oxalate	156	2525
Dichlorodifluoromethane mixture, with not more than			Ethylphenyldichlorosilane	156	2435
12.5% Ethylene oxide	107	2070	Ethyl phosphonothioic dichloride, anhydrous	154	2927
Ethylene oxide and Dichlorodifluoromethane mixtures, with not more than	126	3070	Ethyl phosphonous dichloride, anhydrous	135	2845
12% Ethylene oxide			Ethyl phosphorodichloridate	154	2927
Ethylene oxide and	126	3298	1-Ethylpiperidine	132	2386
Pentafluoroethane mixture, with not more than 7.9%			Ethyl propionate	129	1195
Ethylene oxide			2-Ethyl-3-propylacrolein	153	
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Name of Material	Guide	ID	Name of Material (Guide	ID	
	No.	No.		No.	No.	
Ethyl propyl ether	127	2615	Ferrous ammonium sulphate	171	9122	
Ethyl silicate	132	1292	Ferrous arsenate	151	1608	
Ethylsulfuric acid	156	2571	Ferrous chloride, solid	154	1759	
Ethylsulphuric acid	156	2571	Ferrous chloride, solution	154	1760	
N-Ethyltoluidines	153	2754	Ferrous metal borings,	170	2793	
Ethyltrichlorosilane	155	1196	shavings, turnings or cuttings			
Etiologic agent, n.o.s.	158	2814	Ferrous sulfate	171	9125	
Explosive A	112		Ferrous sulphate	171	9125	
Explosive B	112		Fertilizer, ammoniating solution with free Ammonia	, 125	1043	
Explosive C	114		Fiber, animal, synthetic or	133	1373	
Explosives, division 1.1, 1.2, 1.3, 1.5 or 1.6	112		vegetable, n.o.s., with oil			
Explosives, division 1.4	114		Fiber, animal or vegetable, n.o.s., burnt, wet or damp	133	1372	
Extracts, aromatic, liquid	127	1169	Fibers	133	1372	
Extracts, flavoring, liquid	127	1197	Fibers impregnated with weakly	133	1353	
Extracts, flavouring, liquid	127	1197	nitrated Nitrocellulose, n.o.s.			
Fabrics, animal, synthetic or vegetable, n.o.s., with oil	133	1373	Fibres, animal, synthetic or vegetable, n.o.s., with oil	133	1373	
Fabrics impregnated with wea nitrated Nitrocellulose, n.o.	,	1353	Fibres, animal or vegetable, burnt, wet or damp	133		
Ferric ammonium citrate	171	9118	Fibres, vegetable, dry	133		
Ferric ammonium oxalate	171	9119	Fibres impregnated with weakly	133	1353	
Ferric arsenate	151	1606	nitrated Nitrocellulose, n.o.s.	400	1001	
Ferric arsenite	151	1607	Film	133	1324	
Ferric chloride	157	1773	Films, nitrocellulose base	133	1324	
Ferric chloride, anhydrous	157	1773	Fire extinguisher charges, corrosive liquid	154	1774	
Ferric chloride, solution	154	2582	Fire extinguishers with	126	1044	
Ferric fluoride	171	9120	compressed gas			
Ferric nitrate	140	1466	Fire extinguishers with	126	1044	
Ferric sulfate	171	9121	liquefied gas			
Ferric sulphate	171	9121	Firelighters, solid, with flammable liquid	133	2623	
Ferrocerium	170	1323	First aid kit	171	3316	
Ferrosilicon	139	1408	Fish meal, stabilized	171	2216	
Ferrous ammonium sulfate	171	9122	i isii iiicai, staviiizcu		ae 135	

Name of Material G	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Fish meal, unstabilized	133	1374	Flammable solid, inorganic,	133	3178
Fish meal containing 6% to 12%	171	2216	n.o.s.		
water			Flammable solid, n.o.s.	133	1325
Fish meal containing less than 6% or more than 12% water	133	1374	Flammable solid, organic, molten, n.o.s.	133	3176
Fish scrap, stabilized	171	2216	Flammable solid, organic, n.o.s.	133	1325
Fish scrap, unstabilized	133	1374	Flammable solid, oxidizing,	140	3097
Fish scrap containing 6% to 12% water	171	2216	n.o.s. Flammable solid, poisonous,	134	3179
Fish scrap containing less than	133	1374	inorganic, n.o.s.		
6% or more than 12% water			Flammable solid, poisonous,	134	2926
Flame retardant compound,	154	1760	n.o.s.	124	2024
liquid (corrosive)	115	1057	Flammable solid, poisonous, organic, n.o.s.	134	2926
Flammable gas in lighter for cigars, cigarettes, etc.	115	1057	Flammable solid, toxic,	134	3179
Flammable liquid, corrosive,	132	2924	inorganic, n.o.s.		-
n.o.s	-		Flammable solid, toxic, organic,	134	2926
Flammable liquid, n.o.s.	128	1993	n.o.s.		
Flammable liquid, poisonous,	131	3286	Flue dust, poisonous	154	2811
corrosive, n.o.s.			Fluoboric acid	154	1775
Flammable liquid, poisonous,	131	1992	Fluorine	124	1045
n.o.s.	40-	0001	Fluorine, compressed	124	1045
Flammable liquid, toxic, corrosive, n.o.s.	131	3286	Fluorine, refrigerated liquid (cryogenic liquid)	167	9192
Flammable liquid, toxic, n.o.s.	131	1992	Fluoroacetic acid	154	2642
Flammable liquid preparations,	127	1142	Fluoroanilines	153	2941
n.o.s.	100	007/	Fluorobenzene	130	2387
Flammable liquids, elevated temperature material, n.o.s.	128	9276	Fluoroboric acid	154	1775
Flammable solid, corrosive, inorganic, n.o.s.	134	3180	Fluorophosphoric acid, anhydrous	154	1776
Flammable solid, corrosive,	134	2925	Fluorosilicates, n.o.s.	151	2856
n.o.s.		_,_0	Fluorosilicic acid	154	1778
Flammable solid, corrosive,	134	2925	Fluorosulfonic acid	137	1777
organic, n.o.s.			Fluorosulphonic acid	137	1777
Flammable solid, inorganic,	134	3180	Fluorotoluenes	130	2388
corrosive, n.o.s.				-	-

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Fluosilicic acid	154	1778	Gas oil	128	1202
Formaldehyde, solution,	132	1198	Gasoline	128	1203
flammable			Gas sample, non-pressurized,	115	3167
Formaldehyde, solutions (Formalin)	132	1198	flammable, n.o.s., not refrigerated liquid		
Formaldehyde, solutions (Formalin) (corrosive)	132	2209	Gas sample, non-pressurized, poisonous, flammable, n.o.s.,	119	3168
Formic acid	153	1779	not refrigerated liquid		
Fuel, aviation, turbine engine	128	1863	Gas sample, non-pressurized, poisonous, n.o.s., not	123	3169
Fuel oil	128	1202	refrigerated liquid		
Fuel oil	128	1993	Gas sample, non-pressurized,	119	3168
Fuel oil, no. 1,2,4,5,6	128	1202	toxic, flammable, n.o.s., not		
Fumaric acid	171	9126	refrigerated liquid	100	21/0
Fumaryl chloride	156	1780	Gas sample, non-pressurized, toxic, n.o.s., not refrigerated	123	3169
Furaldehydes	132P	1199	liquid		
Furan	127	2389	GB	153	2810
Furfural	132P	1199	GD	153	2810
Furfuraldehydes	132P	1199	Genetically modified micro-	171	3245
Furfuryl alcohol	153	2874	organisms		
Furfurylamine	132	2526	Genetically modified organisms		9278
Fusee (rail or highway)	133	1325	Germane	119	2192
Fusel oil	127	1201	GF	153	2810
GA	153	2810	Glycerol alpha- monochlorohydrin	153	2689
Gallium	172	2803	Glycidaldehyde	131P	2622
Gas, refrigerated liquid, flammable, n.o.s.	115	3312	Grenade, tear gas	159	2017
Gas, refrigerated liquid, n.o.s.	120	3158	Guanidine nitrate	143	1467
Gas, refrigerated liquid,	120	3311	Н	153	2810
oxidizing, n.o.s.	122	3311	Hafnium powder, dry	135	2545
Gas cartridges	115	2037	Hafnium powder, wetted with no less than 25% water		1326
Gas drips, hydrocarbon Gas generator assemblies	128 171	1864 8013	Halogenated irritating liquid, n.o.s.	159	1610
Gas identification set Gasohol	123 128	9035 1203	Hay, wet, damp or contaminated with oil	133	1327

Name of Material G	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Hazardous substance, liquid, n.o.s.	171	9188	Hexaethyl tetraphosphate and compressed gas mixture	123	1612
Hazardous substance, solid, n.o.s.	171	9188	Hexaethyl tetraphosphate mixture, liquid	152	2783
Hazardous waste, liquid, n.o.s.	171	3082	Hexafluoroacetone	125	2420
Hazardous waste, liquid, n.o.s.	171	9189	Hexafluoroacetone hydrate	151	2552
Hazardous waste, solid, n.o.s.	171	3077	Hexafluoroethane	126	2193
Hazardous waste, solid, n.o.s.	171	9189	Hexafluoroethane, compressed	126	2193
HD	153	2810	Hexafluorophosphoric acid	154	1782
Heater for refrigerator car, liquid	128	1993	Hexafluoropropylene	126	1858
fuel type			Hexafluoropropylene oxide	126	1956
Heating oil, light	128	1202	Hexaldehyde	129	1207
Heat producing article	171	8038	Hexamethylenediamine, solid	153	2280
Helium	121	1046	Hexamethylenediamine,	153	1783
Helium, compressed	121	1046	solution		
Helium, refrigerated liquid (cryogenic liquid)	120	1963	Hexamethylene diisocyanate	156	2281
Helium-Oxygen mixture	122	1980	Hexamethyleneimine	132	2493
Heptafluoropropane	126	3296	Hexamethylenetetramine	133	1328
n-Heptaldehyde	129	3056	3,3,6,6,9,9-Hexamethyl-1,2,4,5 tetraoxacyclononane	- 146	2165
Heptanes	128	1206	3,3,6,6,9,9-Hexamethyl-1,2,4,5	- 145	2166
n-Heptene	128	2278	tetraoxacyclononane		
Hexachloroacetone	153	2661	3,3,6,6,9,9-Hexamethyl-1,2,4,5	- 145	2167
Hexachlorobenzene	152	2729	tetraoxacyclononane	400	1000
Hexachlorobutadiene	151	2279	Hexamine	133	1328
Hexachlorocyclopentadiene	151	2646	Hexanes	128	1208
Hexachloroethane	151	9037	Hexanoic acid	154	1760
Hexachlorophene	151	2875	Hexanoic acid	153	2829
Hexadecyltrichlorosilane	156	1781	Hexanols	129	2282
Hexadiene	130	2458	1-Hexene	128	2370
Hexaethyl tetraphosphate	151	1611	Hexyltrichlorosilane	156	1784
Hexaethyl tetraphosphate, liquid	151	1611	HL	153	2810
Hexaethyl tetraphosphate, solid	151	1611	HN-1 (nitrogen mustard)	153	2810
			HN-2	153	2810

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
HN-3	153	2810	Hydrocyanic acid, aqueous	154	1613
Hydrazine, anhydrous	132	2029	solution, with not more than 20% Hydrogen cyanide		
Hydrazine, aqueous solution, with not less than 37% but no more than 64% Hydrazine	153 t	2030	Hydrocyanic acid, aqueous solutions, with more than 20% Hydrogen cyanide	117	1051
Hydrazine, aqueous solution,	152	3293	Hydrocyanic acid, liquefied	117	1051
with not more than 37% Hydrazine			Hydrofluoric acid	157	1790
Hydrazine, aqueous solutions,	132	2029	Hydrofluoric acid, solution	157	1790
with more than 64% Hydrazin		2027	Hydrofluoric acid and Sulfuric	157	178
Hydrazine, aqueous solutions,	153	2030	acid mixture		
with not more than 64% Hydrazine			Hydrofluoric acid and Sulphuric acid mixture	157	1786
Hydrazine hydrate	153	2030	Hydrofluorosilicic acid	154	1778
Hydrides, metal, n.o.s.	138	1409	Hydrofluosilicic acid	154	1778
Hydriodic acid	154	1787	Hydrogen	115	1049
Hydriodic acid, solution	154	1787	Hydrogen, compressed	115	1049
Hydrobromic acid	154	1788	Hydrogen, refrigerated liquid	115	1966
Hydrobromic acid, solution	154	1788	(cryogenic liquid)		
Hydrocarbon gas, compressed, n.o.s.	115	1964	Hydrogen and Carbon monoxide mixture	119	2600
Hydrocarbon gas, liquefied, n.o.s.	115	1965	Hydrogen and Carbon monoxide mixture, compressed	119	2600
Hydrocarbon gas mixture, compressed, n.o.s.	115	1964	Hydrogen and Methane mixture, compressed	115	203
Hydrocarbon gas mixture,	115	1965	Hydrogen bromide, anhydrous	125	1048
liquefied, n.o.s.			Hydrogen chloride, anhydrous	125	1050
Hydrocarbon gas refills for sma devices, with release device	II 115	3150	Hydrogen chloride, refrigerated liquid	125	218
Hydrocarbons, liquid, n.o.s.	128	3295	Hydrogen cyanide, anhydrous,	117	105
Hydrochloric acid	157	1789	stabilized		
Hydrochloric acid, mixture	157	1789	Hydrogen cyanide, anhydrous, stabilized (absorbed)	131	161
Hydrochloric acid, solution	157	1789	Hydrogen cyanide, aqueous	154	1613
Hydrocyanic acid, aqueous solution, with less than 5% Hydrogen cyanide	154	1613	solution, with not more than 20% Hydrogen cyanide	134	101.

Name of Material G	uide No.	ID No.	Name of Material (Guide No.	ID No.
Hydrogen cyanide, solution in	131	3294	Hypochlorite solution	154	1791
alcohol, with not more than 45% Hydrogen cyanide			Hypochlorite solution, with more than 5% available Chlorine	154	1791
Hydrogen cyanide, stabilized	117	1051	Hypochlorites, inorganic, n.o.s.	140	3212
Hydrogen cyanide, stabilized (absorbed)	131	1614	3,3'-Iminodipropylamine	153	2269
Hydrogendifluorides, n.o.s.	154	1740	Infectious substance, affecting animals only	158	2900
Hydrogen fluoride, anhydrous	125	1052	Infectious substance, affecting	158	2814
Hydrogen iodide, anhydrous	125	2197	humans		
Hydrogen peroxide, aqueous	143	2015	Ink, printer's, flammable	129	1210
solution, stabilized, with more than 60% Hydrogen peroxide			Insecticide, dry, n.o.s.	151	2588
Hydrogen peroxide, aqueous	140	2984	Insecticide, liquefied gas	126	1968
solution, with not less than 8% but less than 20% Hydrogen peroxide	170	2704	Insecticide, liquefied gas, containing Poison A or Poison B material	123	1967
Hydrogen peroxide, aqueous solution, with not less than 20% but not more than 60%	140	2014	Insecticide, liquid, poisonous, n.o.s.	151	2902
			Insecticide gas, flammable, n.o.s.	115	1954
Hydrogen peroxide (stabilized as necessary)			Insecticide gas, flammable, n.o.s.	115	3354
Hydrogen peroxide, stabilized	143	2015	Insecticide gas, n.o.s.	126	1968
Hydrogen peroxide and Peroxyacetic acid mixture,	140	3149	Insecticide gas, poisonous, flammable, n.o.s.	119	3355
with acid(s), water and not more than 5% Peroxyacetic acid, stabilized			Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	119	3355
Hydrogen selenide, anhydrous	117	2202	Insecticide gas, poisonous,	119	3355
Hydrogen sulfide	117	1053	flammable, n.o.s. (Inhalation Hazard Zone B)		
Hydrogen sulfide, liquefied	117	1053	Insecticide gas, poisonous,	119	3355
Hydrogen sulphide	117	1053	flammable, n.o.s.	117	3333
Hydrogen sulphide, liquefied	117	1053	(Inhalation Hazard Zone C)		
Hydroquinone	153	2662	Insecticide gas, poisonous,	119	3355
3-(2-Hydroxyethoxy)-4- pyrrolidin-1-yl benzene-	150	3035	flammable, n.o.s. (Inhalation Hazard Zone D)	400	10/7
diazonium zinc chloride	154	20/5	Insecticide gas, poisonous, n.o.s.	123	1967
Hydroxylamine sulfate Hydroxylamine sulphate	154 154	2865 2865	Insecticide gas, toxic, flammabl n.o.s.	e, 119	3355

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Insecticide gas, toxic, flammab	le, 119	3355	Isobutylene	115	105!
n.o.s. (Inhalation Hazard Zone A)			Isobutylene	115	107
Insecticide gas, toxic, flammab	ıl∧ 110	3355	Isobutyl formate	132	239
n.o.s.	116,117	3333	Isobutyl isobutyrate	129	252
(Inhalation Hazard Zone B)			Isobutyl isocyanate	155	248
Insecticide gas, toxic, flammab	le, 119	3355	Isobutyl methacrylate	130P	228
n.o.s. (Inhalation Hazard Zone C)			Isobutyl methacrylate, inhibited	130P	228
Insecticide gas, toxic, flammab	le. 119	3355	Isobutyl propionate	129	239
n.o.s.	,		Isobutyraldehyde	129	204
(Inhalation Hazard Zone D)			Isobutyric acid	132	252
Insecticide gas, toxic, n.o.s.	123	1967	Isobutyric anhydride	132	253
lodine monochloride	157	1792	Isobutyronitrile	131	228
lodine pentafluoride	144	2495	Isobutyryl chloride	132	239
2-lodobutane	129	2390	Isocyanate solution, flammable,	155	247
lodomethylpropanes	129	2391	poisonous, n.o.s.		
lodopropanes	129	2392	Isocyanate solution, flammable, toxic, n.o.s.	155	247
IPDI	156	2290	Isocyanate solution, poisonous,	155	308
Iron oxide, spent	135	1376	flammable, n.o.s.	133	300
Iron pentacarbonyl	131	1994	Isocyanate solution, poisonous,	155	220
Iron sponge, spent	135	1376	n.o.s.		
Irritating agent, n.o.s.	159	1693	Isocyanate solution, toxic,	155	308
Isobutane	115	1075	flammable, n.o.s.	455	000
Isobutane	115	1969	Isocyanate solution, toxic, n.o.s		220
Isobutane mixture	115	1075	Isocyanate solutions, n.o.s.	155	220
Isobutane mixture	115	1969	Isocyanate solutions, n.o.s.	155	247
Isobutanol	129	1212	Isocyanate solutions, n.o.s.	155	308
Isobutyl acetate	129	1213	Isocyanate solutions, n.o.s. (toxic)	155	220
Isobutyl acrylate		2527	Isocyanates, flammable,	155	247
Isobutyl acrylate, inhibited		2527	poisonous, n.o.s.		
Isobutyl alcohol	129	1212	Isocyanates, flammable, toxic,	155	247
Isobutyl aldehyde	129	2045	n.o.s.		
Isobutylamine	132	1214	Isocyanates, n.o.s.	155	220
Isobutyl chloroformate	155	2742	Isocyanates, n.o.s.	155	247

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Isocyanates, n.o.s.	155	3080	Isopropyl chloroformate	155	2407
Isocyanates, n.o.s. (toxic)	155	2207	Isopropyl 2-chloropropionate	132	2934
Isocyanates, poisonous,	155	3080	Isopropyl isobutyrate	131	2406
flammable, n.o.s.			Isopropyl isocyanate	155	2483
Isocyanates, poisonous, n.o.s.		2206	Isopropyl mercaptan	130	2402
Isocyanates, toxic, flammable, n.o.s.	155	3080	Isopropyl methylphosphono- fluoridate	153	2810
Isocyanates, toxic, n.o.s.	155	2206	Isopropyl nitrate	130	1222
Isocyanatobenzotrifluorides	156	2285	Isopropyl percarbonate,	148	2133
Isoheptene	128	2287	unstabilized		
Isohexene	128	2288	Isopropyl peroxydicarbonate	148	2133
IsononanoyI peroxide	148	2128	Isopropyl peroxydicarbonate	148	2134
Isooctane	128	1262	Isopropyl propionate	129	2409
Isooctene	128	1216	Isosorbide dinitrate mixture	133	2907
Isopentane	128	1265	Isosorbide-5-mononitrate	133	3251
Isopentanoic acid	154	1760	Kerosene	128	1223
Isopentenes	128	2371	Ketones, liquid, n.o.s.	127	1224
Isophoronediamine	153	2289	Krypton	121	1056
Isophorone diisocyanate	156	2290	Krypton, compressed	121	1056
Isoprene, inhibited	130P	1218	Krypton, refrigerated liquid	120	1970
Isopropanol	129	1219	(cryogenic liquid)		
Isopropanolamine	171	9127	L (Lewisite)	153	2810
dodecylbenzenesulfonate			Lacquer chips, dry	133	2557
Isopropanolamine dodecylbenzenesulphonate	171	9127	Lauroyl peroxide	145	2124
Isopropenyl acetate	129P	2403	Lauroyl peroxide, not more than 42%, stable dispersion, in wate	145 r	2893
IsopropenyIbenzene	128	2303	Leachable toxic waste	151	9500
Isopropyl acetate	129	1220	Lead acetate	151	1616
Isopropyl acid phosphate	153	1793	Lead arsenates	151	1617
Isopropyl alcohol	129	1219	Lead arsenites	151	1618
Isopropylamine	132	1221	Lead chloride	151	2291
Isopropylbenzene	130	1918	Lead compound, soluble, n.o.s.	151	2291
Isopropyl butyrate	129	2405	Lead cyanide	151	1620
Isopropyl chloroacetate	155	2947	Lead dioxide	141	1872

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Lead fluoborate	151	2291	Liquefied gas, flammable,	119	1953
Lead fluoride	154	2811	poisonous, n.o.s. (Inhalation Hazard Zone C)		
Lead nitrate	141	1469	· ·	110	105
Lead perchlorate	141	1470	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation	119	1953
Lead perchlorate, solid	141	1470	Hazard Zone D)		
Lead perchlorate, solution	141	1470	Liquefied gas, flammable, toxic	, 119	195
Lead peroxide	141	1872	n.o.s.		
Lead phosphite, dibasic	133	2989	Liquefied gas, flammable, toxic n.o.s. (Inhalation Hazard	, 119	195
Lead sulfate, with more than 3% free acid	154	1794	Zone A)	110	105
Lead sulphate, with more than 3% free acid	154	1794	Liquefied gas, flammable, toxic n.o.s. (Inhalation Hazard Zone B)	, 119	195
Lewisite	153	2810	Liquefied gas, flammable, toxic	, 119	195
Life-saving appliances, not self- inflating	171	3072	n.o.s. (Inhalation Hazard Zone C)		
Life-saving appliances, self- inflating	171	2990	Liquefied gas, flammable, toxic n.o.s. (Inhalation Hazard	, 119	195
Lighter refills (cigarettes) (flammable gas)	115	1057	Zone D) Liquefied gas, n.o.s.	126	195
Lighters (cigarettes)	115	1057	Liquefied gas, n.o.s.	126	316
(flammable gas)			Liquefied gas, oxidizing, n.o.s.	122	315
Lighters for cigars, cigarettes etc. with lighter fluid	127	1226	Liquefied gas, poisonous, corrosive, n.o.s.	123	330
Lighters for cigars, cigarettes (flammable liquid)	127	1226	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation	123	330
Lindane	151	2761	Hazard Zone A)		
Liquefied gas (nonflammable)	121	1058	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation	123	330
Liquefied gas, flammable, n.o.s		1954	Hazard Zone B)		
Liquefied gas, flammable, n.o.s	. 115	3161	Liquefied gas, poisonous,	123	330
Liquefied gas, flammable, poisonous, n.o.s.	119	1953	corrosive, n.o.s. (Inhalation Hazard Zone C)		
Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)	119	1953	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	123	330
Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B)	119	1953	Liquefied gas, poisonous, flammable, corrosive, n.o.s.	119	330

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	119	3309	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)		3162
Liquefied gas, poisonous,	119	3309	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	123	1955
flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)			Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	123	3162
Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	119	3309	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s.	124	3310
Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	119	3309	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	124	3310
Liquefied gas, poisonous, flammable, n.o.s.	119	3160	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	124	3310
Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	119	3160	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	124	3310
Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	119	3160	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	124	3310
Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	119	3160	Liquefied gas, poisonous, oxidizing, n.o.s.	124	3307
Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	119	3160	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)	124	3307
Liquefied gas, poisonous, n.o.s	. 123	1955	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation	124	3307
Liquefied gas, poisonous, n.o.s	. 123	3162	Hazard Zone B)		
Liquefied gas, poisonous, n.o.s (Inhalation Hazard Zone A)	. 123	1955	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation	124	3307
Liquefied gas, poisonous, n.o.s (Inhalation Hazard Zone A)	. 123	3162	Hazard Zone C) Liquefied gas, poisonous,	124	3307
Liquefied gas, poisonous, n.o.s (Inhalation Hazard Zone B)	. 123	1955	oxidizing, n.o.s. (Inhalation Hazard Zone D)		
Liquefied gas, poisonous, n.o.s (Inhalation Hazard Zone B)	. 123	3162	Liquefied gas, toxic, corrosive, n.o.s.	123	3308
Liquefied gas, poisonous, n.o.s (Inhalation Hazard Zone C)	. 123	1955	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)	123	3308

Name of Material	Guide No.		Name of Material	Guide No.	
Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)	123	3308	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	123	1955
Liquefied gas, toxic, corrosive,	123	3308	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	123	3162
n.o.s. (Inhalation Hazard Zone C)			Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	123	1955
Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)	123	3308	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	123	3162
Liquefied gas, toxic, flammable corrosive, n.o.s.	, 119	3309	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	123	195
Liquefied gas, toxic, flammable corrosive, n.o.s. (Inhalation	, 119	3309	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	123	3162
Hazard Zone A) Liquefied gas, toxic, flammable	, 119	3309	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	123	195
corrosive, n.o.s. (Inhalation Hazard Zone B)	, 117	3307	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	123	316
Liquefied gas, toxic, flammable corrosive, n.o.s. (Inhalation	, 119	3309	Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	124	3310
Hazard Zone C) Liquefied gas, toxic, flammable corrosive, n.o.s. (Inhalation	, 119	3309	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	124	3310
Hazard Zone D) Liquefied gas, toxic, flammable	, 119	3160	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	124	3310
n.o.s. Liquefied gas, toxic, flammable n.o.s. (Inhalation Hazard Zone A)	, 119	3160	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	124	3310
Liquefied gas, toxic, flammable n.o.s. (Inhalation Hazard Zone B)	, 119	3160	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	124	3310
Liquefied gas, toxic, flammable n.o.s. (Inhalation Hazard	, 119	3160	Liquefied gas, toxic, oxidizing, n.o.s.		330
Zone C) Liquefied gas, toxic, flammable n.o.s. (Inhalation Hazard	, 119	3160	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)	124	330
Zone D)	123	1955	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard	124	330
Liquefied gas, toxic, n.o.s.	173	1455	11.0.3. (IIIIIaiatioii Hazalu		

Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C) Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D) Liquefied gases, non-flammable, charged with Nitrogen,	124	3307 3307	Lithium hypochlorite mixture Lithium hypochlorite mixtures,	140	1471
Zone C) Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D) Liquefied gases, non-flammable, charged with Nitrogen,	124	3307	• .	440	
n.o.s. (Inhalation Hazard Zone D) .iquefied gases, non-flammable, charged with Nitrogen,	124	3307	dry	140	1471
Zone D) Liquefied gases, non-flammable, charged with Nitrogen,			Lithium nitrate	140	2722
iquefied gases, non-flammable, charged with Nitrogen,			Lithium nitride	138	2806
charged with Nitrogen,	121	1058	Lithium peroxide	143	1472
			Lithium silicon	138	1417
Carbon dioxide or Air			LNG (cryogenic liquid)	115	1972
iquefied natural gas (cryogenic liquid)	115	1972	London purple	151	1621
iquefied petroleum gas	115	1075	LPG	115	1075
ithium	138	1415	Magnesium	138	1869
ithium acetylide- Ethylenediamine complex	138	2813	Magnesium, in pellets, turnings or ribbons	138	1869
Lithium alkyls	135	2445	Magnesium alkyls	135	3053
ithium aluminum hydride	138	1410	Magnesium alloys, with more	138	1869
ithium aluminum hydride,	138	1411	than 50% Magnesium, in pellets, turnings or ribbons		
ethereal			Magnesium alloys powder	138	1418
ithium amide	139	1412	Magnesium aluminum phosphid	e 139	1419
Lithium batteries	138	3090	Magnesium arsenate	151	1622
ithium batteries, liquid or solid cathode	138	3090	Magnesium bisulfite solution	154	2693
Lithium batteries contained in	138	3091	Magnesium bisulphite solution	154	2693
equipment		3071	Magnesium bromate	140	1473
ithium batteries packed with	138	3091	Magnesium chlorate	140	2723
equipment			Magnesium chloride and	140	1459
ithium borohydride	138	1413	Chlorate mixture	105	2021
ithium chromate	171	9134	Magnesium diamide	135	2004
lithium ferrosilicon	139	2830	Magnesium diphenyl	135	2005
ithium hydride	138	1414	Magnesium fluorosilicate	151	2853
ithium hydride, fused solid	138	2805	Magnesium granules, coated	138	2950
, ,	154	2680	Magnesium hydride	138	2010
ithium hydroxide, solid	154	2680	Magnesium nitrate	140	1474
Lithium hydroxide, solution Lithium hypochlorite, dry	154 140	26791471	Magnesium perchlorate Magnesium peroxide	140 140	14751476

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Magnesium phosphide	139	2011	Medicines, corrosive, solid,	154	1759
Magnesium powder	138	1418	n.o.s.		
Magnesium scrap	138	1869	Medicines, flammable, liquid,	128	1993
Magnesium silicide	138	2624	n.o.s. Medicines, flammable, solid,	133	1325
Magnesium silicofluoride	151	2853	n.o.s.	133	1323
Magnetized material	171	2807	Medicines, oxidizing	140	1479
Maleic acid	156	2215	substances, solid, n.o.s.		
Maleic anhydride	156	2215	Medicines, poisonous, liquid,	153	2810
Malononitrile	153	2647	n.o.s.	4-4	0044
Maneb	135	2210	Medicines, poisonous, solid, n.o.s.	154	2811
Maneb, stabilized	135	2968	Medicines, toxic, liquid, n.o.s.	153	2810
Maneb preparation, stabilized	135	2968	Medicines, toxic, solid, n.o.s.	154	2811
Maneb preparation, with not les than 60% Maneb	s 135	2210	p-Menthane hydroperoxide	147	2125
Manganese nitrate	140	2724	Mercaptan mixture, aliphatic	131	1228
Manganese resinate	133	1330	Mercaptan mixture, liquid,	130	3336
Matches, fusee	133	2254	flammable, n.o.s.	101	1000
Matches, safety	133	1944	Mercaptan mixture, liquid, flammable, poisonous, n.o.s.	131	1228
Matches, "strike anywhere"	133	1331	Mercaptan mixture, liquid,	131	1228
Matches, wax "vesta"	133	1945	flammable, toxic, n.o.s.		
MD	152	1556	Mercaptan mixture, liquid,	131	3071
Medical waste, n.o.s.	158	3291	poisonous, flammable, n.o.s.	404	0074
Medicine, liquid, flammable, poisonous, n.o.s.	131	3248	Mercaptan mixture, liquid, toxic flammable, n.o.s.	, 131	3071
Medicine, liquid, flammable, toxic, n.o.s.	131	3248	Mercaptan mixtures, liquid, n.o.s.	131	1228
Medicine, liquid, poisonous, n.o.s.	151	1851	Mercaptan mixtures, liquid, n.o.s.	131	3071
Medicine, liquid, toxic, n.o.s.	151	1851	Mercaptans, liquid, flammable, n.o.s.	130	3336
Medicine, solid, poisonous, n.o.s.	151	3249	Mercaptans, liquid, flammable, poisonous, n.o.s.	131	1228
Medicine, solid, toxic, n.o.s.	151	3249	Mercaptans, liquid, flammable,	131	1228
Medicines, corrosive, liquid,	154	1760	toxic, n.o.s.		
n.o.s.			Mercaptans, liquid, n.o.s.	131	3071

Name of Material G	Buide No.	ID No.	Name of Material (Guide No.	ID No.
Mercaptans, liquid, poisonous, flammable, n.o.s.	131	3071	Mercury based pesticide, solid, toxic	151	2777
Mercaptans, liquid, toxic,	131	3071	Mercury benzoate	154	1631
flammable, n.o.s.	151	1/22	Mercury bisulfate	151	1633
Mercuric arsenate	151	1623	Mercury bisulphate	151	1633
Mercuric bromide	154	1634	Mercury bromides	154	1634
Mercuric chloride	154	1624	Mercury compound, liquid, n.o.s	. 151	2024
Mercuric cyanide	154	1636	Mercury compound, solid, n.o.s.	151	2025
Mercuric nitrate	141	1625	Mercury cyanide	154	1636
Mercuric oxycyanide	151	1642	Mercury gluconate	151	1637
Mercuric potassium cyanide	157	1626	Mercury iodide	151	1638
Mercuric sulfate	151	1645	Mercury metal	172	2809
Mercuric sulphate	151	1645	Mercury nucleate	151	1639
Mercurous bromide	154	1634	Mercury oleate	151	1640
Mercurous nitrate	141	1627	Mercury oxide	151	1641
Mercurous sulfate	151	1628	Mercury oxycyanide,	151	1642
Mercurous sulphate	151	1628	desensitized		
Mercury	172	2809	Mercury potassium iodide	151	1643
Mercury, metallic	172	2809	Mercury salicylate	151	1644
Mercury acetate	151	1629	Mercury sulfate	151	1645
Mercury ammonium chloride	151	1630	Mercury sulphate	151	1645
Mercury based pesticide, liquid,	131	2778	Mercury thiocyanate	151	1646
flammable, poisonous	121	2770	Mesityl oxide	129	1229
Mercury based pesticide, liquid, flammable, toxic	131	2778	Metal alkyl, solution, n.o.s.	135	9195
Mercury based pesticide, liquid, poisonous	151	3012	Metal alkyl halides, n.o.s. Metal alkyl halides, water-	138 138	3049 3049
Mercury based pesticide, liquid, poisonous, flammable	131	3011	reactive, n.o.s. Metal alkyl hydrides, n.o.s.	138	3050
Mercury based pesticide, liquid, toxic	151	3012	Metal alkyl hydrides, water- reactive, n.o.s.	138	3050
Mercury based pesticide, liquid,	131	3011	Metal alkyls, n.o.s.	135	2003
toxic, flammable			Metal alkyls, water-reactive,	135	2003
Mercury based pesticide, solid, poisonous	151	2777	n.o.s. Metal aryl halides, n.o.s.	138	3049

Name of Material	Guide No.	ID No.	Name of Material (Suide No.	ID No.
Metal aryl halides, water-	138	3049	Methanesulphonyl chloride	156	3246
reactive, n.o.s.			Methanol	131	1230
Metal aryl hydrides, n.o.s.	138	3050	Methoxymethyl isocyanate	155	2605
Metal aryl hydrides, water- reactive, n.o.s.	138	3050	4-Methoxy-4-methyl- pentan-2-one	127	2293
Metal aryls, n.o.s	135	2003	1-Methoxy-2-propanol	129	3092
Metal aryls, water-reactive, n.o.s.	135	2003	Methyl acetate	129	123
Metal carbonyls, n.o.s.	151	3281	Methyl acetone	127	123
Metal catalyst, dry	135	2881	Methylacetylene and Propadiene mixture,	116P	1060
Metal catalyst, wetted	170	1378	stabilized		
Metaldehyde	133	1332	Methyl acrylate, inhibited	129P	191
Metal hydrides, flammable, n.o.s.	170	3182	Methylal	127	123
Metal hydrides, water-reactive,	138	1409	Methyl alcohol	131	123
n.o.s.			Methylallyl chloride	129P	255
Metallic substance, water- reactive, n.o.s.	138	3208	Methylamine, anhydrous	118	106
Metallic substance, water-	138	3209	Methylamine, aqueous solution	132	123
reactive, self-heating, n.o.s.			Methylamyl acetate	129	123
Metal powder, flammable, n.o.s	. 170	3089	Methylamyl alcohol	129	205
Metal powder, self-heating, n.o.s.	135	3189	Methyl amyl ketone	127	111
Metal salts of organic	133	3181	N-Methylaniline	153	229
compounds, flammable, n.o.s	S.		Methyl benzoate	152	293
Methacrylaldehyde	131P	2396	alpha-Methylbenzyl alcohol	153	293
Methacrylaldehyde, inhibited	131P	2396	Methylbenzyl alcohol (alpha)	153	293
Methacrylic acid, inhibited	153P		Methyl bromide	123	106
Methacrylonitrile, inhibited	131P	3079	Methyl bromide and Chloropicrin	123	158
Methallyl alcohol	129	2614	mixtures		4 (4)
Methane	115	1971	Methyl bromide and Ethylene dibromide mixture, liquid	151	164
Methane, compressed	115	1971	Methyl bromide and more than	123	158
Methane, refrigerated liquid (cryogenic liquid)	115	1972	2% Chloropicrin mixture, liquid	120	100
Methane and Hydrogen mixture, compressed	, 115	2034	Methyl bromide and nonflammable, nonliquefied	123	195
Methanesulfonyl chloride	156	3246	compressed gas mixture		

Name of Material G	uide No.	ID No.	Name of Material	Guide No.	ID No.
Methyl bromoacetate	155	2643	Methyl fluoride	115	2454
Methylbromoacetone	159		Methyl formate	129	1243
3-Methylbutan-2-one	127	2397	2-Methylfuran	127	2301
2-Methyl-1-butene	127	2459	2-Methyl-2-hepthanethiol	131	3023
2-Methyl-2-butene	127	2460	5-Methylhexan-2-one	127	2302
B-Methyl-1-butene	127	2561	Methylhydrazine	131	1244
N-Methylbutylamine	132	2945	Methyl iodide	151	2644
Methyl tert-butyl ether	127	2398	Methyl isobutyl carbinol	129	2053
Methyl butyrate	129	1237	Methyl isobutyl ketone	127	1245
Methyl chloride	115	1063	Methyl isobutyl ketone peroxide		2126
Methyl chloride and Chloropicrin	119	1582	Methyl isocyanate	155	2480
mixtures Methyl chloride and Methylene	115	1912	Methyl isopropenyl ketone, inhibited	127P	1246
chloride mixture			Methyl isothiocyanate	131	2477
Methyl chloroacetate	155	2295	Methyl isovalerate	130	2400
Methyl chloroformate	155	1238	Methyl magnesium bromide in	135	1928
Methyl chloromethyl ether	131	1239	Ethyl ether		
Methyl 2-chloropropionate	132	2933	Methyl mercaptan	117	1064
Methylchlorosilane	119	2534	Methyl methacrylate monomer,	129P	1247
Methyl cyanide	131	1648	inhibited Mathyl mathacrylate manamer	120D	1017
Methylcyclohexane	128	2296	Methyl methacrylate monomer, uninhibited	129P	1247
Methylcyclohexanols	129	2617	4-Methylmorpholine	132	2535
Methylcyclohexanone	127	2297	N-Methylmorpholine	132	2535
Methylcyclopentane	128	2298	Methylmorpholine	132	2535
Methyl dichloroacetate	155	2299	Methyl nitrite	116	2455
Methyldichloroarsine	152	1556	N-Methyl-N'-Nitro-N-	133	1325
Methyldichlorosilane	139	1242	Nitrosoguanidine		
Methylene chloride	160	1593	Methyl orthosilicate	155	2606
Methylene chloride and Methyl chloride mixture	115	1912	Methyl parathion, liquid	152	2783
Methyl ethyl ether	115	1039	Methyl parathion, liquid	152	3018
Methyl ethyl ketone	127	1193	Methyl parathion, mixture, dry	152	2783
Methyl ethyl ketone peroxide	147	2550	Methyl parathion, solid	152	2783
2-Methyl-5-ethylpyridine	153	2300	Methylpentadiene	127	2461

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Methyl pentane	128	2462	Mustard Lewisite	153	2810
2-Methylpentan-2-ol	129	2560	Naphtha	128	2553
Methylphenyldichlorosilane	156	2437	Naphtha, petroleum	128	1255
Methyl phosphonic dichloride	137	9206	Naphtha, solvent	128	1256
Methyl phosphonous dichloride	135	2845	Naphthalene, crude	133	1334
1-Methylpiperidine	132	2399	Naphthalene, molten	133	2304
Methyl propionate	129	1248	Naphthalene, refined	133	1334
Methyl propyl ether	127	2612	Naphthenic acid	171	9137
Methyl propyl ketone	127	1249	alpha-Naphthylamine	153	2077
Methyltetrahydrofuran	127	2536	Naphthylamine (alpha)	153	2077
Methyl trichloroacetate	156	2533	beta-Naphthylamine	153	1650
Methyltrichlorosilane	155	1250	Naphthylamine (beta)	153	1650
alpha-Methylvaleraldehyde	130	2367	Naphthylthiourea	153	1651
Methyl valeraldehyde (alpha)	130	2367	Naphthylurea	153	1652
Methyl vinyl ketone	131P	1251	Natural gas, compressed	115	1971
Methyl vinyl ketone, stabilized	131P	1251	Natural gas, refrigerated liquid	115	1972
Mevinphos	152	2783	(cryogenic liquid)		
Mexacarbate	151	2757	Natural gasoline	128	1257
M.I.B.C.	129	2053	Neohexane	128	1208
Mining reagent, liquid	153	2022	Neon	121	1065
Molybdenum pentachloride	156	2508	Neon, compressed	121	1065
Monoethanolamine	153	2491	Neon, refrigerated liquid	120	1913
Mononitrotoluidines	153	2660	(cryogenic liquid) Nickel ammonium sulfate	171	0120
Monopropylamine	132	1277	Nickel ammonium sulphate	171 171	91389138
Morpholine	132	2054	Nickel carbonyl	131	1259
Morpholine, aqueous mixture	154	1760	,		2881
Morpholine, aqueous mixture	132	2054	Nickel catalyst, dry	135	
Motor fuel anti-knock compound	d 131	1649	Nickel chloride	151	9139
Motor fuel anti-knock mixture	131	1649	Nickel cyanide	151	16539140
Motor spirit	128	1203	Nickel hydroxide	154	
Muriatic acid	157	1789	Nickel nitrate	140	2725
Musk xylene	149	2956	Nickel nitrite	140	2726
Mustard	153	2810	Nickel sulfate	154	9141

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
lickel sulphate	154	9141	Nitric oxide and Nitrogen	124	1975
Vicotine	151	1654	tetroxide mixture		
vicotine compound, liquid,	151	3144	Nitriles, flammable, poisonous, n.o.s.	131	3273
Nicotine compound, solid, n.o.s	. 151	1655	Nitriles, flammable, toxic, n.o.s.	131	3273
Nicotine hydrochloride	151	1656	Nitriles, poisonous, flammable, n.o.s.	131	3275
Nicotine hydrochloride, solution	1 51	1656	Nitriles, poisonous, n.o.s.	151	3276
licotine preparation, liquid, n.o.s.	151	3144	Nitriles, toxic, flammable, n.o.s.		3275
licotine preparation, solid,	151	1655	Nitriles, toxic, n.o.s.	151	3276
n.o.s. Vicotine salicylate	151	1657	Nitrites, inorganic, aqueous solution, n.o.s.	140	3219
vicotine sulfate, solid	151	1658	Nitrites, inorganic, n.o.s.	140	2627
licotine sulfate, solution	151	1658	Nitroanilines	153	1661
vicotine sulphate, solid	151	1658	Nitroanisole	152	2730
licotine sulphate, solution	151	1658	Nitroanisole, liquid	152	2730
Vicotine tartrate	151	1659	Nitroanisole, solid	152	2730
litrate, n.o.s.	140	1477	Nitrobenzene	152	1662
litrates, inorganic, aqueous	140	3218	Nitrobenzenesulfonic acid	153	2305
solution, n.o.s.			Nitrobenzenesulphonic acid	153	2305
litrates, inorganic, n.o.s.	140	1477	Nitrobenzotrifluorides	152	2306
litrating acid, spent	157	1826	Nitrobromobenzene	152	2732
litrating acid mixture	157	1796	Nitrobromobenzene, liquid	152	2732
Nitrating acid mixture, spent	157	1826	Nitrobromobenzene, solid	152	2732
Nitric acid, 40% or less	154	1760	Nitrocellulose, block, wet, with not less than 25% alcohol	127	2059
Nitric acid, fuming	157	2032		127	2059
Nitric acid, other than red fumin	Ü	2031	Nitrocellulose, colloided, granular or flake, wet, with not less than	127	2059
Nitric acid, red fuming	157	2032	20% alcohol or solvent		
Nitric oxide	124	1660	Nitrocellulose, colloided,	113	2555
Nitric oxide, compressed	124	1660	granular or flake, wet, with no less than 20% water	t	
litric oxide and Dinitrogen tetroxide mixture	124	1975	Nitrocellulose, solution,	127	2059
Nitric oxide and Nitrogen dioxid mixture	e 124	1975	flammable Nitrocellulose, solution, in a flammable liquid	127	2059

Name of Material	Guide No.		Name of Material (Guide No.	ID No
Nitrocellulose, wet, with not les	s 113	2556	Nitrogen tetroxide, liquid	124	106
than 30% alcohol or solvent			Nitrogen tetroxide and Nitric	124	197
Nitrocellulose membrane filters		3270	oxide mixture		
Nitrocellulose mixture, without plasticizer, without pigment	133	2557	Nitrogen trifluoride	122	245
Nitrocellulose mixture, without	133	2557	Nitrogen trifluoride, compressed Nitrogen trioxide	122	245242
plasticizer, with pigment			Nitroglycerin, solution in	127	306
Nitrocellulose mixture, with plasticizer, without pigment	133	2557	alcohol, with more than 1% but not more than 5%	127	300
Nitrocellulose mixture, with plasticizer, with pigment	133	2557	Nitroglycerin Nitroglycerin, solution in	127	120
Nitrocellulose with alcohol	113	2556	alcohol, with not more than	121	120
Nitrocellulose with not less that	n 113	2556	1% Nitroglycerin		
25% alcohol			Nitroglycerin mixture, desensitized, liquid, flammabl	113	334
Nitrocellulose with plasticizing substance	133	2557	n.o.s., with not more than 30% Nitroglycerin		
Nitrocellulose with water, not less than 25% water	113	2555	Nitroglycerin mixture, desensitized, liquid, n.o.s.,	113	335
Nitrochlorobenzenes, liquid	152	1578	with not more than 30%		
Nitrochlorobenzenes, solid	152	1578	Nitroglycerin		
3-Nitro-4-chlorobenzotrifluorid	e 152	2307	Nitroglycerin mixture,	113	331
Nitrocresols	153	2446	desensitized, solid, n.o.s., wit more than 2% but not more tha		
Nitroethane	129	2842	10% Nitroglycerin		
Nitrogen	121	1066	Nitroglycerin mixture with more	113	331
Nitrogen, compressed	121	1066	than 2% but not more than 10% Nitroglycerin,		
Nitrogen, refrigerated liquid (cryogenic liquid)	120	1977	desensitized	112	133
Nitrogen and Rare gases mixtu	re 121	1981	Nitroguanidine (Picrite), wetted with not less than 20% water	113	133
Nitrogen and Rare gases mixture, compressed	121	1981	Nitroguanidine, wetted with not less than 20% water	113	133
Nitrogen dioxide	124	1067	Nitrohydrochloric acid	157	179
Nitrogen dioxide, liquefied	124	1067	Nitromethane	129	126
Nitrogen dioxide and Nitric oxid mixture	le 124	1975	Nitronaphthalene	133	253
Nitrogen peroxide, liquid	124	1067	Nitrophenols	153	166
minogen peroxide, liquid	124	1007	Nitropropanes	129	260

Name of Material G	uide No.	ID No.	Name of Material	Guide No.	ID No.
p-Nitrosodiethylaniline	135		tert-Octyl mercaptan	131	3023
p-Nitrosodimethylaniline	135	1369	Octyltrichlorosilane	156	1801
Nitrostarch, wet, with not less than 30% alcohol or solvent	113	1337	Oil, n.o.s., flash point not less than 93°C (200°F)	171	9277
Nitrostarch, wetted with not less than 20% water	113	1337	Oil, petroleum, n.o.s. Oil gas	128 119	1270 1071
Nitrostarch, wetted with not less than 30% solvent	113	1337	Oil gas, compressed	119	1071
Nitrosyl chloride	125	1069	Oleum	137	1831
Nitrosylsulfuric acid	157	2308	Oleum, with less than 30% free Sulfur trioxide	137	1831
Nitrosylsulphuric acid	157	2308	Oleum, with less than 30% free	137	1831
Nitrotoluenes	152	1664	Sulphur trioxide	.57	1001
Nitrotoluenes, liquid	152	1664	Oleum, with not less than 30%	137	1831
Nitrotoluenes, solid	152	1664	free Sulfur trioxide		
Nitrotoluidines (mono)	153	2660	Oleum, with not less than 30% free Sulphur trioxide	137	1831
Nitrous oxide	122	1070	Organic peroxide, liquid, n.o.s.	146	9183
Nitrous oxide, compressed	122	1070	Organic peroxide, inquid, in.o.s. Organic peroxide, solution, n.o.s		9183
Nitrous oxide, refrigerated liquid	122	2201	Organic peroxide, solid, n.o.s.	146	9187
Nitrous oxide and Carbon dioxide mixture	126	1015	Organic peroxides, mixtures	146	2756
Nitroxylenes	152	1665	Organic peroxides, n.o.s.	148	2899
Nitroxylol	152	1665	(including trial quantities)	14/	2255
Nonanes	128	1920	Organic peroxides, samples, n.o.s	146	2255
Nonyltrichlorosilane	156	1799	Organic peroxide type B, liquid	146	3101
2,5-Norbornadiene	127P	2251	Organic peroxide type B, liquid,	148	3111
2,5-Norbornadiene, inhibited	127P	2251	temperature controlled		
Octadecyltrichlorosilane	156	1800	Organic peroxide type B, solid	146	3102
Octadiene	128P	2309	Organic peroxide type B, solid,	148	3112
Octafluorobut-2-ene	126	2422	temperature controlled	14/	2102
Octafluorocyclobutane	126	1976	Organic peroxide type C, liquid	146	3103
Octafluoropropane	126	2424	Organic peroxide type C, liquid, temperature controlled	148	3113
Octanes	128	1262	Organic peroxide type C, solid	146	3104
Octanoyl peroxide	148	2129	Organic peroxide type C, solid,	148	3114
Octyl aldehydes	129	1191	temperature controlled	•	

Name of Material	Guide No.	ID No.	Name of Material G	uide No.	ID No.
Organic peroxide type D, liquid	145	3105	Organochlorine pesticide, liquid,	131	276
Organic peroxide type D, liquid, temperature controlled	148	3115	flammable, poisonous Organochlorine pesticide, liquid,	131	276
Organic peroxide type D, solid	145	3106	flammable, toxic		
Organic peroxide type D, solid, temperature controlled	148	3116	Organochlorine pesticide, liquid, poisonous	151	299
Organic peroxide type E, liquid	145	3107	Organochlorine pesticide, liquid, poisonous, flammable	131	299
Organic peroxide type E, liquid, temperature controlled	148	3117	Organochlorine pesticide, liquid, toxic	151	299
Organic peroxide type E, solid	145	3108	Organochlorine pesticide, liquid,	121	299
Organic peroxide type E, solid, temperature controlled	148	3118	toxic, flammable		
Organic peroxide type F, liquid	145	3109	Organochlorine pesticide, solid, poisonous	151	276
Organic peroxide type F, liquid, temperature controlled	148	3119	Organochlorine pesticide, solid, toxic	151	276
Organic peroxide type F, solid	145	3110	Organometallic compound,	151	328
Organic peroxide type F, solid, temperature controlled	148	3120	poisonous, n.o.s. Organometallic compound,	151	328
Organic phosphate, dry	152	2783	toxic, n.o.s.		
Organic phosphate, solid	152	2783	Organometallic compound,	138	320
Organic phosphate compound, dry	152	2783	water-reactive, flammable, n.o.s Organometallic compound	138	320
Organic phosphate compound, solid	152	2783	dispersion, water-reactive, flammable, n.o.s.		
Organic phosphate compound mixed with compressed gas	123	1955	Organometallic compound solution, water-reactive, flammable, n.o.s.	138	320
Organic phosphate mixed with compressed gas	123	1955	Organophosphorus compound, poisonous, flammable, n.o.s.	131	327
Organic phosphorus compound dry	, 152	2783	Organophosphorus compound, poisonous, n.o.s.	151	327
Organic phosphorus compound solid	, 152	2783	Organophosphorus compound, toxic, flammable, n.o.s.	131	327
Organic phosphorus compound mixed with compressed gas	123	1955	Organophosphorus compound, toxic, n.o.s.	151	327
Organic pigments, self-heating	135	3313	Organophosphorus pesticide,	131	278
Organoarsenic compound, n.o.s	s. 151	3280	liquid, flammable, poisonous		_, 0

Name of Material (Guide No.	ID No.	Name of Material	Guide No.	ID No.
Organophosphorus pesticide,	131	2784	Other regulated substance	171	8027
liquid, flammable, toxic Organophosphorus pesticide,	152	3018	Other regulated substances, liquid, n.o.s.	171	3082
liquid, poisonous Organophosphorus pesticide,	131	3017	Other regulated substances, solid, n.o.s.	171	3077
liquid, poisonous, flammable			Oxalates, water soluble	154	2449
Organophosphorus pesticide, liquid, toxic	152	3018	Oxidizer, corrosive, liquid, n.o.s.	140	9193
Organophosphorus pesticide,	131	3017	Oxidizer, corrosive, solid, n.o.s.	140	9194
liquid, toxic, flammable			Oxidizer, poisonous, liquid, n.o.s.	142	9199
Organophosphorus pesticide, solid, poisonous	152	2783	Oxidizer, poisonous, solid,	141	9200
Organophosphorus pesticide, solid, toxic	152	2783	Oxidizing liquid, corrosive,	140	3098
Organotin compound, liquid, n.o.s.	153	2788	n.o.s. Oxidizing liquid, n.o.s.	140	3139
Organotin compound, solid, n.o.s.	153	3146	Oxidizing liquid, poisonous, n.o.s. Oxidizing liquid, toxic, n.o.s.	142 142	3099 3099
Organotin pesticide, liquid,	131	2787	Oxidizing solid, corrosive, n.o.s.	140	3085
flammable, poisonous			Oxidizing solid, flammable,	140	3137
Organotin pesticide, liquid, flammable, toxic	131	2787	n.o.s.	4	4.70
Organotin pesticide, liquid, poisonous	153	3020	Oxidizing solid, n.o.s. Oxidizing solid, poisonous,	140 141	1479 3087
Organotin pesticide, liquid, poisonous, flammable	131	3019	n.o.s. Oxidizing solid, self-heating,	135	3100
Organotin pesticide, liquid, toxic	: 153	3020	n.o.s.	4.4	2007
Organotin posticide, liquid, toxic, flammable	131	3019	Oxidizing solid, toxic, n.o.s. Oxidizing solid, water-reactive	141 , 144	3087 3121
Organotin pesticide, solid, poisonous	153	2786	n.o.s. Oxidizing substances, liquid,	140	3098
Organotin pesticide, solid, toxic	153	2786	corrosive, n.o.s. Oxidizing substances, liquid,	140	3139
ORM-A, n.o.s.	159	1693	n.o.s.	170	J 1 J 7
ORM-B, n.o.s.	154	1760	Oxidizing substances, liquid,	142	3099
ORM-E, liquid, n.o.s.	171	9188	poisonous, n.o.s.		
ORM-E, solid, n.o.s.	171	9188	Oxidizing substances, liquid, toxic, n.o.s.	142	3099
Osmium tetroxide	154	2471	τολίο, π.υ.3.		

Name of Material G	uide No.	ID No.	Name of Material	Guide No.	ID No.
Oxidizing substances, self- heating, n.o.s.	135	3100	Paint related material (corrosive)	153	3066
Oxidizing substances, solid, corrosive, n.o.s.	140	3085	Paint related material (flammable)	128	1263
Oxidizing substances, solid,	140	3137	Paper, unsaturated oil treated	133	1379
flammable, n.o.s.	140	1470	Paraformaldehyde	133	2213
Oxidizing substances, solid, n.o.s.	140	1479	Paraldehyde	129	1264
Oxidizing substances, solid, poisonous, n.o.s.	141	3087	Parathion Parathion and compressed gas	152 123	27831967
Oxidizing substances, solid,	135	3100	mixture		
self-heating, n.o.s.			Parathion mixture, dry	152	2783
Oxidizing substances, solid,	141	3087	Parathion mixture, liquid	152	2783
toxic, n.o.s.	144	2121	PCB	171	2315
Oxidizing substances, solid, which in contact with water emit flammable gases, n.o.s.	144	3121	PD Pelargonyl peroxide	152 148	155 <i>6</i> 2130
Oxygen	122	1072	Pentaborane	135	1380
Oxygen, compressed	122	1072	Pentachloroethane	151	1669
Oxygen, refrigerated liquid	122	1073	Pentachlorophenol	154	3155
(cryogenic liquid)			Pentaerythrite tetranitrate mixture, desensitized, solid,	113	3344
Oxygen and Carbon dioxide mixture	122	1014	n.o.s., with more than 10% but not more than 20% PETN		
Oxygen and Carbon dioxide mixture, compressed	122	1014	Pentafluoroethane	126	3220
Oxygen and Rare gases mixture	122	1980	Pentafluoroethane and Ethylene oxide mixture, with not more	e 126	3298
Oxygen and Rare gases mixture,	122	1980	than 7.9% Ethylene oxide		
compressed			Pentamethylheptane	128	2286
Oxygen difluoride	124	2190	Pentan-2,4-dione	131	2310
Oxygen difluoride, compressed	124	2190	n-Pentane	128	1265
Oxygen generator, chemical	140	3356	2,4-Pentanedione	131	2310
Oxygen generators, small	140	8037	Pentane-2,4-dione	131	2310
Paint (corrosive)	154	1760	Pentanes	128	1265
Paint (corrosive)	153	3066	Pentanols	129	1105
Paint (flammable)	128	1263	1-Pentene	127	1108
Paint related material (corrosive)	154	1760	1-Pentol	153P	2705

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Peracetic acid, solution	147	2131	Pesticide, liquid, flammable,	131	3021
Percarbonates, inorganic, n.o.s	. 140	3217	toxic		
Perchlorate, n.o.s.	140	1481	Pesticide, liquid, poisonous, flammable, n.o.s.	131	2903
Perchlorates, inorganic, aqueous solution, n.o.s.	140	3211	Pesticide, liquid, poisonous,	151	2902
Perchlorates, inorganic, n.o.s.	140	1481	Pesticide, liquid, toxic,	131	2903
Perchloric acid, with more than	143	1873	flammable, n.o.s.	131	2703
50% but not more than 72% acid			Pesticide, liquid, toxic, n.o.s.	151	2902
Perchloric acid, with not more	140	1802	Pesticide, solid, poisonous	151	2588
than 50% acid			Pesticide, solid, poisonous, n.o.s.	151	2588
Perchloroethylene	160	1897	Pesticide, solid, toxic, n.o.s.	151	2588
Perchloromethyl mercaptan	157	1670	Pesticide, water-reactive	135	2210
Perchloryl fluoride	124	3083	Petrol	128	1203
Perfluoroethyl vinyl ether Perfluoro(ethyl vinyl ether)	115 115	3154 3154	Petroleum crude oil	128	1267
Perfluoromethyl vinyl ether	115	3153	Petroleum distillates, n.o.s.	128	1268
Perfluoro(methyl vinyl ether)	115	3153	Petroleum ether	128	1271
Perfumery products, with	127	1266	Petroleum gases, liquefied	115	1075
flammable solvents	127	1200	Petroleum naphtha	128	1255
Permanganate, n.o.s.	140	1482	Petroleum oil	128	1270
Permanganates, inorganic,	140	3214	Petroleum products, n.o.s.	128	1268
aqueous solution, n.o.s.			Petroleum spirit	128	1271
Permanganates, inorganic, n.o.s.	140	1482	Phenacyl bromide	153	2645
Peroxides, inorganic, n.o.s.	140	1483	Phenetidines	153	2311
Peroxyacetic acid, solution	147	2131	Phenol, liquid	153	2821
Persulfates, inorganic, aqueous		3216	Phenol, molten	153	2312
solution, n.o.s.	1-70	5210	Phenol, solid	153	1671
Persulfates, inorganic, n.o.s.	140	3215	Phenol solution	153	2821
Persulphates, inorganic,	140	3216	Phenolates, liquid	154	2904
aqueous solution, n.o.s.			Phenolates, solid	154	2905
Persulphates, inorganic, n.o.s.	140	3215	Phenolsulfonic acid, liquid	153	1803
Pesticide, liquid, flammable, poisonous	131	3021	Phenolsulphonic acid, liquid	153	1803

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Phenoxyacetic acid derivative	131	3346	Phenyldichloroarsine	152	1556
pesticide, liquid, flammable, poisonous			Phenylenediamines	153	1673
Phenoxyacetic acid derivative	131	3346	Phenylhydrazine	153	2572
pesticide, liquid, flammable,		0010	Phenyl isocyanate	155	2487
toxic			Phenyl mercaptan	131	2337
Phenoxyacetic acid derivative pesticide, liquid, poisonous	153	3348	Phenylmercuric acetate	151	1674
Phenoxyacetic acid derivative pesticide, liquid, poisonous,	131	3347	Phenylmercuric compound, n.o.s.	151	2026
flammable			Phenylmercuric hydroxide	151	1894
Phenoxyacetic acid derivative	153	3348	Phenylmercuric nitrate	151	1895
pesticide, liquid, toxic			Phenylphosphorus dichloride	137	2798
Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable	131	3347	Phenylphosphorus thiodichloride	137	2799
Phenoxyacetic acid derivative	153	3345	Phenyltrichlorosilane	156	1804
pesticide, solid, poisonous			Phenyl urea pesticide, liquid, flammable, poisonous	131	2768
Phenoxyacetic acid derivative pesticide, solid, toxic	153	3345	Phenyl urea pesticide, liquid, flammable, toxic	131	2768
Phenoxy pesticide, liquid, flammable, poisonous	131	2766	Phenyl urea pesticide, liquid, poisonous	151	3002
Phenoxy pesticide, liquid, flammable, toxic	131	2766	Phenyl urea pesticide, liquid,	131	300
Phenoxy pesticide, liquid, poisonous	152	3000	poisonous, flammable Phenyl urea pesticide, liquid,	151	3002
Phenoxy pesticide, liquid, poisonous, flammable	131	2999	toxic Phenyl urea pesticide, liquid,	131	300
Phenoxy pesticide, liquid, toxic	152	3000	toxic, flammable		
Phenoxy pesticide, liquid, toxic flammable	, 131	2999	Phenyl urea pesticide, solid, poisonous	151	2767
Phenoxy pesticide, solid, poisonous	152	2765	Phenyl urea pesticide, solid, toxic	151	2767
Phenoxy pesticide, solid, toxic	152	2765	Phosgene	125	107
Phenylacetonitrile, liquid	152	2470	Phosgene oxime	154	281
Phenylacetyl chloride	156	2577	9-Phosphabicyclononanes	135	2940
Phenylcarbylamine chloride	151	1672	Phosphine	119	2199
Phenyl chloroformate	156	2746	Phosphoric acid	154	1805

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Phosphoric anhydride	137	1807	Phosphorus sesquisulphide,	139	1341
Phosphorous acid	154	2834	free from yellow and white Phosphorus		
Phosphorous acid, ortho	154	2834	Phosphorus tribromide	137	1808
Phosphorus, amorphous	133	1338	Phosphorus trichloride	137	1809
Phosphorus, amorphous, red	133	1338	Phosphorus trioxide	157	2578
Phosphorus, white, dry or under water or in solution	136	1381	Phosphorus trisulfide, free from yellow and white Phosphorus	1 39	1343
Phosphorus, white, molten	136	2447	Phosphorus trisulphide, free	139	1343
Phosphorus, yellow, dry or unde water or in solution	er 136	1381	from yellow and white Phosphorus		
Phosphorus heptasulfide, free	139	1339	Phthalic anhydride	156	2214
from yellow and white Phosphorus			Phthalimide derivative pesticide, liquid, flammable,	131	2774
Phosphorus heptasulphide, free from yellow and white Phosphorus	139	1339	poisonous Phthalimide derivative pesticide, liquid, flammable,	131	2774
Phosphorus oxybromide	137	1939	toxic		
Phosphorus oxybromide, molter	n 137	2576	Phthalimide derivative	151	3008
Phosphorus oxybromide, solid	137	1939	pesticide, liquid, poisonous	101	2007
Phosphorus oxychloride	137	1810	Phthalimide derivative pesticide, liquid, poisonous,	131	3007
Phosphorus pentabromide	137	2691	flammable		
Phosphorus pentachloride	137	1806	Phthalimide derivative	151	3008
Phosphorus pentafluoride	125	2198	pesticide, liquid, toxic	404	000-
Phosphorus pentafluoride, compressed	125	2198	Phthalimide derivative pesticide, liquid, toxic, flammable	131	3007
Phosphorus pentasulfide, free from yellow and white Phosphorus	139	1340	Phthalimide derivative pesticide, solid, poisonous	151	2773
Phosphorus pentasulphide, free from yellow and white	139	1340	Phthalimide derivative pesticide, solid, toxic	151	2773
Phosphorus			Picolines	130	2313
Phosphorus pentoxide	137	1807	Picric acid, wet, with not less	113	1344
Phosphorus sesquisulfide, free	139	1341	than 10% water	440	1001
from yellow and white			Picrite, wetted	113	1336
Phosphorus			Pinacolyl methylphosphono- fluoridate	153	2810

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Pinane hydroperoxide	147	2162	Poisonous liquid, flammable,	131	2929
alpha-Pinene	127	2368	n.o.s. Poisonous liquid, flammable,	131	2929
Pinene (alpha)	127	2368	n.o.s. (Inhalation Hazard	131	292
Pine oil	129	1272	Zone A)		
Piperazine	153	2579	Poisonous liquid, flammable,	131	292
Piperidine	132	2401	n.o.s. (Inhalation Hazard Zone B)		
Plastic molding compound	171	3314	Poisonous liquid, flammable,	131	292
Plastic molding material	171		organic, n.o.s.	131	212
Plastic, nitrocellulose-based, spontaneously combustible, n.o.s.	135	2006	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	131	292
Plastics moulding compound	171	3314	Poisonous liquid, flammable,	131	292
Plastics, nitrocellulose-based, self-heating, n.o.s.	135	2006	organic, n.o.s. (Inhalation Hazard Zone B)		
Poison B, liquid, n.o.s.	153	2810	Poisonous liquid, inorganic,	151	328
Poison B, solid, n.o.s.	154	2811	n.o.s.		
Poisonous gas, flammable, n.o.s.	119	1953	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)	151	328
Poisonous gas, n.o.s.	123	1955	1	151	220
Poisonous liquid, corrosive, inorganic, n.o.s.	154	3289	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	151	328
Poisonous liquid, corrosive,	154	3289	Poisonous liquid, n.o.s.	123	195
inorganic, n.o.s. (Inhalation Hazard Zone A)			Poisonous liquid, n.o.s.	153	281
Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation	154	3289	Poisonous liquid, n.o.s. (Inhalation Hazard Zone A)	153	281
Hazard Zone B) Poisonous liquid, corrosive,	154	2927	Poisonous liquid, n.o.s. (Inhalation Hazard Zone B)	153	281
n.o.s.			Poisonous liquid, organic, n.o.s	. 153	281
Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone A)	154	2927	Poisonous liquid, organic, n.o.s (Inhalation Hazard Zone A)	. 153	281
Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard	154	2927	Poisonous liquid, organic, n.o.s (Inhalation Hazard Zone B)	. 153	281
Zone B)			Poisonous liquid, oxidizing, n.o.s.	142	312
Poisonous liquid, flammable, n.o.s.	119	1953			

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	
Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	142	3122	Poisonous solid, self-heating, n.o.s.	136	3124
Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	142	3122	Poisonous solid, water-reactive, n.o.s. Poisonous solid, which in	139	31253125
Poisonous liquid, water- reactive, n.o.s.	139	3123	contact with water emits flammable gases, n.o.s. Polyalkylamines, n.o.s.	132	2733
Poisonous liquid, water- reactive, n.o.s. (Inhalation Hazard Zone A)	139	3123	Polyalkylamines, n.o.s. Polyalkylamines, n.o.s.	132 153	273327342735
Poisonous liquid, water- reactive, n.o.s. (Inhalation	139	3123	Polyamines, flammable, corrosive, n.o.s.	132	2733
Hazard Zone B) Poisonous liquid, which in contact with water emits flammable gases, n.o.s.	139	3123	Polyamines, liquid, corrosive, flammable, n.o.s. Polyamines, liquid, corrosive, n.o.s.	132 153	27342735
Poisonous liquid, which in contact with water emits flammable gases, n.o.s.	139	3123	Polyamines, solid, corrosive, n.o.s. Polychlorinated biphenyls	154 171	3259 2315
(Inhalation Hazard Zone A) Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	139	3123	Polychlorinated biphenyls, liquid Polychlorinated biphenyls, solid Polyester resin kit	171 146	2315 2315 2255
Poisonous solid, corrosive, inorganic, n.o.s.	154	3290	Polyester resin kit Polyhalogenated biphenyls, liquid	127 171	3269 3151
Poisonous solid, corrosive, n.o.s.	154	2928	Polyhalogenated biphenyls, solid	171	3152
Poisonous solid, flammable, n.o.s.	134	2930	Polyhalogenated terphenyls, liquid	171	3151
Poisonous solid, flammable, organic, n.o.s.	134	2930	Polyhalogenated terphenyls, solid	171	3152
Poisonous solid, inorganic, n.o.s.	151	3288	Polymeric beads, expandable Polymerizable material,	133 171P	2211
Poisonous solid, n.o.s. Poisonous solid, organic, n.o.s	154 s. 154	2811 2811	stabilized with dry ice	1716	_
Poisonous solid, oxidizing, n.o.s.	141	3086	Polystyrene beads, expandable Potassium	133 138	2211 2257

Name of Material	Guide No.		Name of Material (Guide No.	ID No.
Potassium, metal	138	2257	Potassium metavanadate	151	2864
Potassium, metal alloys	138	1420	Potassium monoxide	154	2033
Potassium, metal liquid a	alloy 138	1420	Potassium nitrate	140	1486
Potassium arsenate	151	1677	Potassium nitrate and Sodium	140	1499
Potassium arsenite	154	1678	nitrate mixture		
Potassium bifluoride	154	1811	Potassium nitrate and Sodium	140	1487
Potassium bisulfite solut	ion 154	2693	nitrite mixture Potassium nitrite	140	1488
Potassium bisulphite sol	ution 154	2693		140	1489
Potassium borohydride	138	1870	Potassium perchlorate	140 140	1490
Potassium bromate	140	1484	Potassium permanganate Potassium peroxide	144	1490
Potassium chlorate	140	1485	Potassium persulfate	144	1491
Potassium chlorate, aqu	eous 140	2427	Potassium persulphate	140	1492
solution			Potassium phosphide	139	2012
Potassium chlorate, solu		2427	Potassium selenate	151	2630
Potassium chromate	171	9142	Potassium selenite	151	2630
Potassium cuprocyanide		1679	Potassium silicofluoride	151	2655
Potassium cyanide	157	1680	Potassium sodium alloys	138	1422
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Potassium dithionite	135	1929	Potassium sulfide, hydrated,	153	1847
Potassium fluoride	154	1812	with not less than 30% water of crystallization		
Potassium fluoroacetate	151	2628	Potassium sulfide, hydrated,	153	1847
Potassium fluorosilicate	151	2655	with not less than 30% water	100	1047
Potassium hydrogendiflu	oride 154	1811	of hydration		
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Potassium hydrosulfite	135	1929	Potassium sulphide, anhydrous		1382
Potassium hydrosulphite	135	1929	Potassium sulphide, hydrated, with not less than 30% water	153	1847
Potassium hydroxide, dr	y, solid 154	1813	of crystallization		
Potassium hydroxide, fla	ke 154	1813	Potassium sulphide, hydrated,	153	1847
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Potassium sulphide, with less	135	1382	Propylene	115	1075
than 30% water of			Propylene	115	1077
crystallization Potassium sulphide, with less than 30% water of hydration	135	1382	Propylene, Ethylene and Acetylene in mixture, refrigerated liquid containing	116	3138
Potassium superoxide	143	2466	at least 71.5% Ethylene with		
Printing ink, flammable	129	1210	not more than 22.5% Acetylene and not more than		
Printing ink related material	129	1210	6% Propylene		
Propadiene, inhibited	116P	2200	Propylene chlorohydrin	131	2611
Propadiene and	116P	1060	1,2-Propylenediamine	132	2258
Methylacetylene mixture, stabilized			1,3-Propylenediamine	132	2258
Propane	115	1075	Propylene dichloride	130	1279
Propane	115	1978	Propyleneimine, inhibited	131P	1921
Propane-Ethane mixture,	115	1961	Propylene oxide	127P	1280
refrigerated liquid			Propylene oxide and Ethylene	129P	2983
Propane mixture	115	1075	oxide mixture, with not more than 30% Ethylene oxide		
Propane mixture	115	1978	Propylene tetramer	128	2850
Propanethiols	130	2402	Propyl formates	129	1281
n-Propanol	129	1274	n-Propyl isocyanate	155	2482
Propargyl alcohol	131	1986	Propyl mercaptan	130	2402
Propionaldehyde	129	1275	n-Propyl nitrate	131	1865
Propionic acid	132	1848	Propyltrichlorosilane	155	1816
Propionic anhydride	156	2496	Pyrethroid pesticide, liquid,	131	3350
Propionitrile	131	2404	flammable, poisonous		3000
Propionyl chloride	132	1815	Pyrethroid pesticide, liquid,	131	3350
Propionyl peroxide	148	2132	flammable, toxic		
n-Propyl acetate	129	1276	Pyrethroid pesticide, liquid, poisonous	151	3352
normal Propyl alcohol	129	1274	'	121	2251
Propyl alcohol, normal	129	1274	Pyrethroid pesticide, liquid, poisonous, flammable	131	3351
Propylamine	132	1277	Pyrethroid pesticide, liquid, toxio	151	3352
n-Propyl benzene	127	2364	Pyrethroid pesticide, liquid, toxic		3351
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n-Propyl chloroformate	155	2740	Pyrethroid pesticide, solid, poisonous	151	3349

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R	Refrigerant gas R-22	126	1018	Refrigerant gas R-12)		
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R	Refrigerant gas R-32	115	3252	Refrigerant gas R-13)		
R	Refrigerant gas R-40	115	1063	Refrigerant gas R-1216	126	1858
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Refrigerating machines, containing non-flammable, liquefied gas	126	2857	Seat-belt pre-tensioners, pyrotechnic	171	3268
Refrigerating machines, containing non-flammable, non-poisonous, liquefied gas	126	2857	Seed cake, with more than 1.5% oil and not more than 11% moisture	135	1386
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Refrigerating machines,	126	2857	Selenium compound, n.o.s.	151	3283
containing non-flammable,	120	2001	Selenium disulfide	153	2657
non-toxic, non-corrosive, liquefied gas			Selenium disulphide	153	2657
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Self-heating solid, inorganic, toxic, n.o.s.	136	3191	Self-reactive liquid type E, temperature controlled	150	3237	
Self-heating solid, organic,	135	3088	Self-reactive liquid type F	149	3229	
n.o.s. Self-heating solid, organic,	136	3128	Self-reactive liquid type F, temperature controlled	150	3239	
poisonous, n.o.s.			Self-reactive solid type B	149	3222	
Self-heating solid, organic, toxic, n.o.s.	136	3128	Self-reactive solid type B, temperature controlled	150	3232	
Self-heating solid, oxidizing,	135	3127	Self-reactive solid type C	149	3224	
n.o.s. Self-heating solid, poisonous, inorganic, n.o.s.	136	3191	Self-reactive solid type C, temperature controlled	150	3234	
Self-heating solid, poisonous,	136	3128	Self-reactive solid type D	149	3226	
organic, n.o.s.	136	3191	Self-reactive solid type D, temperature controlled	150	3236	
Self-heating solid, toxic, inorganic, n.o.s.	130	3191	Self-reactive solid type E	149	3228	
Self-heating solid, toxic, organic, n.o.s.	136	3128	Self-reactive solid type E, temperature controlled	150	3238	
Self-heating substance, solid,	136	3126	Self-reactive solid type F	149	3230	
corrosive, n.o.s. Self-heating substances, solid	, 135	3088	Self-reactive solid type F, temperature controlled	150	3240	
n.o.s. Self-heating substances, solid	, 135	3127	Self-reactive substances, samples, n.o.s.	149	3031	
oxidizing, n.o.s. Self-heating substances, solid	, 136	3128	Self-reactive substances, trial quantities, n.o.s.	149	3032	
poisonous, n.o.s.			Shale oil	128	1288	
Self-heating substances, solid toxic, n.o.s.	, 136	3128	Silane	116	2203	
Self-reactive liquid type B	149	3221	Silicofluorides, n.o.s.	151	2856	
				Pa	ge 169	

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Silane, compressed	116	2203	Sodium bisulphate, solution	154	2837
Silicon powder, amorphous	170	1346	Sodium borohydride	138	1426
Silicon tetrachloride	157	1818	Sodium borohydride and Sodium	157	3320
Silicon tetrafluoride	125	1859	hydroxide solution, with not more than 12% Sodium		
Silicon tetrafluoride, compressed	125	1859	borohydride and not more than 40% Sodium hydroxide		
Silver arsenite	151	1683	Sodium bromate	141	1494
Silver cyanide	151	1684	Sodium cacodylate	152	1688
Silver nitrate	140	1493	Sodium chlorate	140	1495
Silver picrate, wetted with not less than 30% water	113	1347	Sodium chlorate, aqueous solution	140	2428
Sludge acid	153	1906	Sodium chlorite	143	1496
Smokeless powder for small arms	133	1325	Sodium chlorite, solution, with more than 5% available	154	1908
Smokeless powder for small	133	3178	Chlorine		
arms			Sodium chloroacetate	151	2659
Soda lime, with more than 4% Sodium hydroxide	154	1907	Sodium chromate	171	9145
Sodium	138	1428	Sodium cuprocyanide, solid	157	2316
Sodium aluminate, solid	154	2812	Sodium cuprocyanide, solution	157	2317
Sodium aluminate, solution	154	1819	Sodium cyanide	157	1689
Sodium aluminum hydride	138	2835	Sodium 2-diazo-1-naphthol-4- sulfonate	149	3040
Sodium ammonium vanadate	154	2863	Sodium 2-diazo-1-naphthol-4-	149	3040
Sodium arsanilate	154	2473	sulphonate	177	5040
Sodium arsenate	151	1685	Sodium 2-diazo-1-naphthol-5-	149	3041
Sodium arsenite, aqueous solution	154	1686	sulfonate Sodium 2-diazo-1-naphthol-5-	149	3041
Sodium arsenite, solid	151	2027	sulphonate		
Sodium azide	153	1687	Sodium dichloroisocyanurate	140	2465
Sodium bifluoride, solid	154	2439	Sodium dichloro-s-triazinetrione	140	2465
Sodium bifluoride, solution	154	2439	Sodium dinitro-o-cresolate,	113	1348
Sodium bisulfate, solid	154	1821	wetted with not less than 15% water		
Sodium bisulfate, solution	154	2837	Sodium dinitro-ortho-cresolate,	113	1348
Sodium bisulphate, solid	154	1821	wetted		.010
Souram bisalphate, soila	134	1021	Sodium dithionite	135	1384

Name of Material	Guide No.	ID No.	Name of Material G	Guide No.	ID No
Sodium	171	9146	Sodium hydrosulphide, solution	154	292
dodecylbenzenesulfonate (branched chain)	474	014/	Sodium hydrosulphide, with less than 25% water of	135	231
Sodium dodecylbenzenesulphonate (branched chain)	171	9146	crystallization Sodium hydrosulphide, with not less than 25% water of	154	294
Sodium fluoride	154	1690	crystallization		
Sodium fluoride, solid	154	1690	Sodium hydrosulphite	135	138
Sodium fluoride, solution	154	1690	Sodium hydroxide, dry	154	182
Sodium fluoroacetate	151	2629	Sodium hydroxide, bead	154	182
Sodium fluorosilicate	154	2674	Sodium hydroxide, flake	154	182
Sodium hydride	138	1427	Sodium hydroxide, granular	154	182
Sodium hydrogendifluoride	154	2439	Sodium hydroxide, solid	154	182
Sodium hydrogen fluoride	154	2439	Sodium hydroxide, solution	154	182
$So dium\ hydrogen\ sulfate,\ solid$	154	1821	Sodium methylate	138	143
Sodium hydrogen sulfate, solution	154	2837	Sodium methylate, alcohol mixture	132	128
Sodium hydrogen sulphate, soli	d 154	1821	Sodium methylate, dry	138	143
Sodium hydrogen sulphate, solution	154	2837	Sodium methylate, solution in alcohol	132	128
Sodium hydrosulfide, solid	154	2923	Sodium monoxide	157	182
Sodium hydrosulfide, solid,	135	2318	Sodium nitrate	140	149
with less than 25% water of crystallization			Sodium nitrate and Potassium nitrate mixture	140	149
Sodium hydrosulfide, solution	154	2922	Sodium nitrite	140	150
Sodium hydrosulfide, with less than 25% water of crystallization	135	2318	Sodium nitrite and Potassium nitrate mixtures	140	148
Sodium hydrosulfide, with not	154	2949	Sodium nitrite mixture	140	148
less than 25% water of	101	_///	Sodium pentachlorophenate	154	256
crystallization			Sodium percarbonates	140	246
Sodium hydrosulfite	135	1384	Sodium perchlorate	140	150
Sodium hydrosulphide, solid	154	2923	Sodium permanganate	140	150
Sodium hydrosulphide, solid, with less than 25% water of	135	2318	Sodium peroxide	144	150
crystallization			Sodium peroxoborate, anhydrous	140	324

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Sodium persulfate	140	1505	Stannic phosphides	139	1433
Sodium persulphate	140	1505	Stannous chloride, solid	154	1759
Sodium phenolate, solid	153	2497	Steel swarf	170	2793
Sodium phosphate, dibasic	171	9147	Stibine	119	2676
Sodium phosphate, tribasic	171	9148	Straw, wet, damp or	133	1327
Sodium phosphide	139	1432	contaminated with oil		
Sodium picramate, wetted with	113	1349	Strontium arsenite	151	1691
not less than 20% water			Strontium chlorate	143	1506
Sodium potassium alloys	138	1422	Strontium chlorate, solid	143	1506
Sodium selenite	151	2630	Strontium chlorate, solution	143	1506
Sodium silicofluoride	154	2674	Strontium chromate	171	9149
Sodium sulfide, anhydrous	135	1385	Strontium nitrate	140	1507
Sodium sulfide, hydrated, with	153	1849	Strontium perchlorate	140	1508
not less than 30% water			Strontium peroxide	143	1509
Sodium sulfide, with less than 30% water of crystallization	135	1385	Strontium phosphide	139	2013
Sodium sulphide, anhydrous	135	1385	Strychnine	151	1692
Sodium sulphide, hydrated, wit		1849	Strychnine salts	151	1692
not less than 30% water	11 133	1047	Styrene monomer, inhibited	128P	2055
Sodium sulphide, with less that 30% water of crystallization	n 135	1385	Substances, which in contact with water emit flammable	138	3129
Sodium superoxide	143	2547	gases, liquid, corrosive, n.o.s		21.40
Solids containing corrosive liquid, n.o.s.	154	3244	Substances, which in contact with water emit flammable gases, liquid, n.o.s.	138	3148
Solids containing flammable liquid, n.o.s.	133	3175	Substances, which in contact with water emit flammable	139	3130
Solids containing poisonous liquid, n.o.s.	151	3243	gases, liquid, poisonous, n.o.s.		
Solids containing toxic liquid, n.o.s.	151	3243	Substances, which in contact with water emit flammable	139	3130
Soman	153	2810	gases, liquid, toxic, n.o.s.		
Spirits of Nitroglycerin, not exceeding 1% Nitroglycerin	127	1204	Substances, which in contact with water emit flammable gases, solid, corrosive, n.o.s.	138	3131
Stannic chloride, anhydrous	137	1827	Substances, which in contact	138	3132
Stannic chloride, pentahydrate	154	2440	with water emit flammable gases, solid, flammable, n.o.s		3132

Name of Material	Guide No.		Name of Material	Guide No.	ID No.
Substances, which in contact	138	2813	Sulfur	133	1350
with water emit flammable			Sulfur, molten	133	2448
gases, solid, n.o.s. Substances, which in contact	138	3133	Sulfur chlorides	137	1828
with water emit flammable	130	3133	Sulfur dioxide	125	1079
gases, solid, oxidizing, n.o.s			Sulfur dioxide, liquefied	125	1079
Substances, which in contact	139	3134	Sulfur hexafluoride	126	108
with water emit flammable gases, solid, poisonous,			Sulfuric acid	137	183
n.o.s.			Sulfuric acid, fuming	137	183
Substances, which in contact with water emit flammable	138	3135	Sulfuric acid, fuming, with less than 30% free Sulfur trioxide	137	183
gases, solid, self-heating, n.o.s.	400	0104	Sulfuric acid, fuming, with not less than 30% free Sulfur trioxide	137	183
Substances, which in contact with water emit flammable	139	3134	Sulfuric acid, spent	137	183
gases, solid, toxic, n.o.s.			Sulfuric acid, with more than	137	183
Substituted nitrophenol	131	2780	51% acid	137	100
pesticide, liquid, flammable, poisonous			Sulfuric acid, with not more than 51% acid	n 157	2790
Substituted nitrophenol pesticide, liquid, flammable, toxic	131	2780	Sulfuric acid and Hydrofluoric acid mixtures	157	178
Substituted nitrophenol	153	3014	Sulfurous acid	154	183
pesticide, liquid, poisonous			Sulfur tetrafluoride	125	241
Substituted nitrophenol	131	3013	Sulfur trioxide	137	182
pesticide, liquid, poisonous, flammable			Sulfur trioxide, inhibited	137	182
Substituted nitrophenol	153	3014	Sulfur trioxide, stabilized	137	182
pesticide, liquid, toxic	133	3014	Sulfur trioxide, uninhibited	137	182
Substituted nitrophenol pesticide, liquid, toxic,	131	3013	Sulfur trioxide and Chlorosulfonic acid mixture	137	175
flammable			Sulfuryl chloride	137	183
Substituted nitrophenol	153	2779	Sulfuryl fluoride	123	219
pesticide, solid, poisonous	152	2770	Sulphamic acid	154	296
Substituted nitrophenol pesticide, solid, toxic	153	2779	Sulphur	133	1350
Succinic acid peroxide	146	2135	Sulphur, molten	133	244
Sulfamic acid	154	2967	Sulphur chlorides	137	182
			Sulphur dioxide	125	1079

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Sulphur dioxide, liquefied	125	1079	Tear gas substance, solid, n.o.s	. 159	1693
Sulphur hexafluoride	126	1080	Tellurium compound, n.o.s.	151	3284
Sulphuric acid	137	1830	Tellurium hexafluoride	125	2195
Sulphuric acid, fuming	137	1831	Terpene hydrocarbons, n.o.s.	128	2319
Sulphuric acid, fuming, with les		1831	Terpinolene	128	2541
than 30% free Sulphur trioxid			Tetrabromoethane	159	2504
Sulphuric acid, fuming, with not less than 30% free Sulphur	137	1831	1,1,2,2-Tetrachloroethane	151	1702
trioxide			Tetrachloroethane	151	1702
Sulphuric acid, spent	137	1832	Tetrachloroethylene	160	1897
Sulphuric acid, with more than	137	1830	Tetraethyl dithiopyrophosphate	153	1704
51% acid Sulphuric acid, with not more	157	2796	Tetraethyl dithiopyrophosphate, mixture, dry or liquid	153	1704
than 51% acid Sulphuric acid and Hydrofluoric	: 157	1786	Tetraethyl dithiopyrophosphate and gases, in solution	123	1703
acid mixtures			Tetraethyl dithiopyrophosphate and gases, mixtures	123	1703
Sulphurous acid	154	1833	Tetraethyl dithiopyrophosphate	123	1703
Sulphur tetrafluoride	125	2418	and gases, mixtures, or in	123	1703
Sulphur trioxide	137	1829	solution (LC50 more than 200		
Sulphur trioxide, inhibited	137	1829	ppm but not more than 5000 ppm)		
Sulphur trioxide, stabilized	137	1829	Tetraethyl dithiopyrophosphate	123	1703
Sulphur trioxide, uninhibited	137	1829	and gases, mixtures, or in	.20	1700
Sulphur trioxide and Chlorosulphonic acid mixture	137	1754	solution (LC50 not more than 200 ppm)		
Sulphuryl chloride	137	1834	Tetraethylenepentamine	153	2320
Sulphuryl fluoride	123	2191	Tetraethyl lead, liquid	131	1649
Tabun	153	2810	Tetraethyl pyrophosphate, liquic	152	2783
Tars, liquid	130	1999	Tetraethyl pyrophosphate, liquic	152	3018
TDE (1,1-Dichloro-2,2-bis (p-chlorophenyl)ethane)	151	2761	Tetraethyl pyrophosphate, solid		2783
Tear gas candles	159	1700	Tetraethyl pyrophosphate and compressed gas mixtures	123	1705
Tear gas devices	159	1693	Tetraethyl pyrophosphate and	123	1705
Tear gas grenades	159	1700	compressed gas mixtures		
Tear gas substance, liquid, n.o.s.	159	1693	(LC50 more than 200 ppm but not more than 5000 ppm)		

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Tetraethyl pyrophosphate and	123	1705	Thallium compound, n.o.s.	151	170
compressed gas mixtures	. \		Thallium nitrate	141	272
(LC50 not more than 200 ppm		2783	Thallium sulfate, solid	151	170
Tetraethyl pyrophosphate mixture, dry	152	2/83	Thallium sulphate, solid	151	170
Tetraethyl silicate	132	1292	4-Thiapentanal	152	278
1,1,1,2-Tetrafluoroethane	126	3159	Thia-4-pentanal	152	278
Tetrafluoroethane and Ethylene	126	3299	Thickened GD	153	281
oxide mixture, with not more			Thioacetic acid	129	243
than 5.6% Ethylene oxide Tetrafluoroethylene, inhibited	116P	1081	Thiocarbamate pesticide, liquid flammable, poisonous	, 131	277
Tetrafluoromethane	126	1982	Thiocarbamate pesticide, liquid	, 131	277
Tetrafluoromethane,	126	1982	flammable, toxic		
compressed			Thiocarbamate pesticide, liquid	, 151	300
1,2,3,6-Tetrahydro- benzaldehyde	132	2498	poisonous Thiocarbamate pesticide, liquid	121	300
Tetrahydrofuran	127	2056	poisonous, flammable	, 131	300
Tetrahydrofurfurylamine	129	2943	Thiocarbamate pesticide, liquid	, 151	300
Tetrahydrophthalic anhydrides	156	2698	toxic		
1,2,3,6-Tetrahydropyridine	129	2410	Thiocarbamate pesticide, liquid toxic, flammable	, 131	300
1,2,5,6-Tetrahydropyridine	129	2410	Thiocarbamate pesticide, solid,	151	277
Tetrahydrothiophene	129	2412	poisonous	131	211
Tetralin hydroperoxide	145	2136	Thiocarbamate pesticide, solid,	151	277
Tetramethylammonium	153	1835	toxic		
hydroxide			Thioglycol	153	296
1,1,3,3-Tetramethylbutyl	145	2160	Thioglycolic acid	153	194
hydroperoxide			Thiolactic acid	153	293
1,1,3,3-Tetramethylbutyl peroxy-2-ethylhexanoate	148	2161	Thionyl chloride	137	183
Tetramethylmethylenediamine	132	9069	Thiophene	130	241
Tetramethylsilane	130	2749	Thiophosgene	157	247
Tetranitromethane	143	1510	Thiophosphoryl chloride	157	183
Tetrapropyl orthotitanate	128	2413	Thiourea dioxide	135	334
Textile treating compound or	154	1760	Thiram	151	277
mixture, liquid (corrosive)	107	1700	Thorium metal, pyrophoric	162	297
Thallium chlorate	141	2573	Thorium nitrate, solid	162	297

Name of Material	Guide No.	ID No.	Name of Material (Guide No.	ID No.
Tinctures, medicinal	127	1293	Toluene sulfonic acid, solid, with	153	2583
Tin tetrachloride	137	1827	more than 5% free Sulfuric		
Tin tetrachloride, pentahydrate	154	2440	acid	. 152	2585
Titanium disulfide	135	3174	Toluene sulfonic acid, solid, with not more than 5% free Sulfurio		2565
Titanium disulphide	135	3174	acid		
Titanium hydride	170	1871	Toluene sulphonic acid, liquid,	153	2584
Titanium powder, dry	135	2546	with more than 5% free Sulphuric acid		
Titanium powder, wetted with not less than 25% water	170	1352	Toluene sulphonic acid, liquid, with not more than 5% free	153	2586
Titanium sponge granules	170	2878	Sulphuric acid		
Titanium sponge powders	170	2878	Toluene sulphonic acid, solid,	153	2583
Titanium sulfate, solution	154	1760	with more than 5% free		
Titanium sulphate, solution	154	1760	Sulphuric acid	152	2505
Titanium tetrachloride	137	1838	Toluene sulphonic acid, solid, with not more than 5% free	153	2585
Titanium tetrachloride and Vanadium oxytrichloride,	137	2443	Sulphuric acid Toluidines	153	1708
mixture			Toluidines, liquid	153	1708
Titanium trichloride, pyrophoric		2441	Toluidines, solid	153	1708
Titanium trichloride mixture	157	2869	2,4-Toluylenediamine	151	1709
Titanium trichloride mixture, pyrophoric	135	2441	Toxaphene	151	2761
TNT, wetted with not less than 30% water	113	1356	Toxic liquid, corrosive, inorganic, n.o.s.	154	3289
Toe puffs, nitrocellulose base Toluene	133 130	1353 1294	Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)	154	3289
2,4-Toluenediamine	151	1709	Toxic liquid, corrosive,	154	3289
Toluenediamine	151	1709	inorganic, n.o.s. (Inhalation Hazard Zone B)		
Toluene diisocyanate	156	2078	Toxic liquid, corrosive, organic,	154	2927
Toluene sulfonic acid, liquid, with more than 5% free Sulfuric acid	153	2584	n.o.s. Toxic liquid, corrosive, organic, n.o.s.	154	2927
Toluene sulfonic acid, liquid, with not more than 5% free	153	2586	n.o.s. (Inhalation Hazard Zone A)	134	Z7Z1
Sulfuric acid			Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone B)	154	2927

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Toxic liquid, flammable, n.o.s.	131	2929	Toxic liquid, water-reactive,	139	312
Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	131	2929	n.o.s. (Inhalation Hazard Zone B)		
Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	131	2929	Toxic liquid, which in contact with water emits flammable	139	312
Toxic liquid, flammable, organic n.o.s.	c, 131	2929	gases, n.o.s. Toxic liquid, which in contact	139	312
Toxic liquid, flammable, organic n.o.s. (Inhalation Hazard Zone A)	c, 131	2929	with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)		
Toxic liquid, flammable, organic n.o.s. (Inhalation Hazard Zone B)	:, 131	2929	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	139	312
Toxic liquid, inorganic, n.o.s.	151	3287	Toxic solid, corrosive, inorganic	, 154	329
Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)	151	3287	n.o.s. Toxic solid, corrosive, organic,	154	292
Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	151	3287	n.o.s. Toxic solid, flammable, n.o.s.	134	293
Toxic liquid, n.o.s.	153	2810	Toxic solid, flammable, organic,		293
Toxic liquid, n.o.s. (Inhalation Hazard Zone A)	153	2810	n.o.s. Toxic solid, inorganic, n.o.s.	151	328
Toxic liquid, n.o.s. (Inhalation Hazard Zone B)	153	2810	Toxic solid, n.o.s.	154	281
Toxic liquid, organic, n.o.s.	153	2810	Toxic solid, organic, n.o.s.	154	281
Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone A)	153	2810	Toxic solid, oxidizing, n.o.s. Toxic solid, self-heating, n.o.s.	141 136	308
Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone B)	153	2810	Toxic solid, water-reactive, n.o.s.	139	312
Toxic liquid, oxidizing, n.o.s.	142	3122	Toxic solid, which in contact wit		312
Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	142	3122	water emits flammable gases n.o.s.	,	
Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	142	3122	Toxins Toxins, extracted from living	153 153	317
Toxic liquid, water-reactive, n.o.s.	139	3123	sources, liquid, n.o.s. Toxins, extracted from living	153	317.
Toxic liquid, water-reactive,	139	3123	sources, n.o.s.		
n.o.s. (Inhalation Hazard Zone A)			Toxins, extracted from living sources, solid, n.o.s.	153	317

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Triallylamine	132	2610	Trichlorosilane	139	1295
Triallyl borate	156	2609	Trichloro-s-triazinetrione, dry	140	2468
Triazine pesticide, liquid, flammable, poisonous	131	2764	(mono)-(Trichloro)-tetra- (monopotassium dichloro)-	140	2468
Triazine pesticide, liquid, flammable, toxic	131	2764	penta-s-triazinetrione, dry Tricresyl phosphate	151	2574
Triazine pesticide, liquid, poisonous	151	2998	Triethanolamine dodecylbenzenesulfonate	171	9151
Triazine pesticide, liquid, poisonous, flammable	131	2997	Triethanolamine dodecylbenzenesulphonate	171	9151
Triazine pesticide, liquid, toxic	151	2998	Triethylamine	132	1296
Triazine pesticide, liquid, toxic	, 131	2997	Triethylenetetramine	153	2259
flammable			Triethyl phosphite	129	2323
Triazine pesticide, solid, poisonous	151	2763	Trifluoroacetic acid	154	2699
Triazine pesticide, solid, toxic	151	2763	Trifluoroacetyl chloride	125	3057
Tri-(1-aziridinyl)phosphine	152	2501	Trifluorochloroethylene	119P	1082
oxide, solution	132 .	2001	Trifluorochloroethylene,	119P	1082
Tributylamine	153	2542	inhibited	115	2035
Tributylphosphane	135	3254	1,1,1-Trifluoroethane Trifluoroethane, compressed	115	2035
Tributylphosphine	135	3254	Trifluoromethane	126	1984
Trichlorfon	152	2783		120	3136
Trichloroacetic acid	153	1839	Trifluoromethane, refrigerated liquid	120	3130
Trichloroacetic acid, solution	153	2564	Trifluoromethane and	126	2599
Trichloroacetyl chloride	156	2442	Chlorotrifluoromethane		
Trichlorobenzenes, liquid	153	2321	azeotropic mixture with approximately 60%		
Trichlorobutene	152	2322	Chlorotrifluoromethane		
1,1,1-Trichloroethane	160	2831	2-Trifluoromethylaniline	153	2942
Trichloroethylene	160	1710	3-Trifluoromethylaniline	153	2948
Trichloroisocyanuric acid, dry	140	2468	Triisobutylene	128	2324
Trichlorophenol	153	2020	Triisocyanatoisocyanurate of	127	2906
2,4,5-Trichlorophenoxyacetic acid	152	2765	Isophoronediisocyanate, solution (70%)		
2,4,5-Trichlorophenoxy-	152	2765	Triisopropyl borate	129	2616
propionic acid			Trimethoxysilane	132	9269

Name of Material (Guide No.	ID No.	Name of Material C	Suide No.	ID No.
Trimethylacetyl chloride	132	2438	Uranium hexafluoride, low	166	2978
Trimethylamine, anhydrous	118	1083	specific activity		
Trimethylamine, aqueous solution	132	1297	Uranium hexafluoride, non- fissile	166	297
1,3,5-Trimethylbenzene	129	2325	Uranium metal, pyrophoric	162	297
Trimethyl borate	129	2416	Uranyl acetate	162	918
Trimethylchlorosilane	155	1298	Uranyl nitrate, hexahydrate,	162	298
Trimethylcyclohexylamine	153	2326	solution	1/2	200
Trimethylhexamethylenediamines	153	2327	Uranyl nitrate, solid	162	298
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Trinitrobenzene, wetted with not	113	1354	Valeraldehyde	129	205
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Trinitrophenol, wetted with not less than 30% water			Titanium tetrachloride, mixture	137	244
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Tripropylamine	132	2260	Vanadium tetrachloride	137	244
Tripropylene	128	2057	Vanadium trichloride	157	247
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oxide, solution			Vanadyl sulfate	151	293
Tris-(2-chloroethyl) amine	153	2810	Vanadyl sulphate	151	293
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Turpentine	128	1299	Vehicle, flammable liquid	128	316
Turpentine substitute	128	1300	powered		
Undecane	128	2330	Vinyl acetate	129P	130
Uranium hexafluoride, fissile	166	2977	Vinyl acetate, inhibited	129P	130
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Uranium hexafluoride, fissile-	166	2978	Vinyl butyrate, inhibited	129P	283
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Vinyl chloroacetate	155	2589	Waste Type 20	154	9320
Vinyl ethyl ether	127P	1302	Waste Type 21	154	9321
Vinyl ethyl ether, inhibited	127P	1302	Waste Type 22	154	9322
Vinyl fluoride, inhibited	116P	1860	Waste Type 23	154	9323
Vinylidene chloride, inhibited	129P	1303	Waste Type 24	152	9324
Vinyl isobutyl ether	127P	1304	Waste Type 25	127	9325
Vinyl isobutyl ether, inhibited	127P	1304	Waste Type 26	152	9326
Vinyl methyl ether	116P	1087	Waste Type 27	131	9327
Vinyl methyl ether, inhibited	116P	1087	Waste Type 28	131	9328
Vinylpyridines, inhibited	131P	3073	Waste Type 29	153	9329
VinyItoluenes, inhibited	130P	2618	Waste Type 30	153	9330
Vinyltrichlorosilane	155	1305	Waste Type 31	129	9331
Vinyltrichlorosilane, inhibited	155	1305	Waste Type 32	129	9332
VX	153	2810	Waste Type 33	129	9333
Waste Type 1	153	9301	Waste Type 34	129	9334
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Waste Type 4	153	9304	Waste Type 37	153	9337
Waste Type 5	131	9305	Waste Type 38	153	9338
Waste Type 6	154	9306	Waste Type 39	153	9339
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Waste Type 8	153	9308	Waste Type 41	132	9341
Waste Type 9	153	9309	Waste Type 42	129	9342
Waste Type 10	153	9310	Waste Type 43	154	9343
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Waste Type 13	153	9313	Waste Type 46	153	9346
Waste Type 14	153	9314	Waste Type 47	132	9347
Waste Type 15	153	9315	Waste Type 48	153	9348
Waste Type 16	154	9316	Waste Type 49	153	9349
Waste Type 17	154	9317	Waste Type 50	153	9350
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Name of Material	Guide No.		Name of Material (Guide No.	ID No.
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Waste Type 53	153	9353	Waste Type 86	154	9386
Waste Type 54	153	9354	Waste Type 87	154	9387
Waste Type 55	153	9355	Waste Type 88	151	9388
Waste Type 56	153	9356	Waste Type 89	154	9389
Waste Type 57	153	9357	Waste Type 90	154	9390
Waste Type 58	153	9358	Waste Type 91	153	9391
Waste Type 59	151	9359	Waste Type 92	154	9392
Waste Type 60	132	9360	Waste Type 93	153	9393
Waste Type 61	151	9361	Waste Type 94	151	939
Waste Type 62	151	9362	Waste Type 95	153	939
Waste Type 63	151	9363	Waste Type 96	151	939
Waste Type 64	151	9364	Waste Type 97	153	939
Waste Type 65	151	9365	Waste Type 99	137	939
Waste Type 66	151	9366	Waste Type 100	137	940
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Waste Type 68	154	9368	Water-reactive liquid, corrosive,	138	312
Waste Type 69	151	9369	n.o.s.		
Waste Type 70	151	9370	Water-reactive liquid, n.o.s.	138	314
Waste Type 71	133	9371	Water-reactive liquid,	139	313
Waste Type 72	151	9372	poisonous, n.o.s.	120	212
Waste Type 73	151	9373	Water-reactive liquid, toxic, n.o.s.	139	313
Waste Type 74	127	9374	Water-reactive solid, corrosive,	138	313
Waste Type 75	153	9375	n.o.s.		
Waste Type 76	153	9376	Water-reactive solid, flammable	, 138	313
Waste Type 77	131	9377	n.o.s.		
Waste Type 78	153	9378	Water-reactive solid, n.o.s.	138	281
Waste Type 79	153	9379	Water-reactive solid, oxidizing, n.o.s.	138	313
Waste Type 80	151	9380	Water-reactive solid, poisonous	130	313
Waste Type 81	154	9381	n.o.s.	, 137	J 1 J
Waste Type 82	154	9382	Water-reactive solid, self-	138	313
Waste Type 83	154	9383	heating, n.o.s.		
Waste Type 84	151	9384	Water-reactive solid, toxic, n.o.s	: 139	313

Name of Material	Guide No.	ID No.	Name of Material	Guide No.	ID No.
Water-reactive substances, liquid, corrosive, n.o.s.	138	3129	Xylenes	130	1307
Water-reactive substances,	138	3148	Xylenols Xylidines	153 153	2261 1711
liquid, n.o.s.			,		
Water-reactive substances, liquid, poisonous, n.o.s.	139	3130	Xylyl bromide Yellow phosphorus, dry	152 136	1701 1381
Water-reactive substances,	139	3130	Yellow phosphorus, in solution	136	1381
liquid, toxic, n.o.s.	137	3130	Yellow phosphorus, molten	136	2447
Water-reactive substances,	138	3131	Yellow phosphorus, under water		1381
solid, corrosive, n.o.s.			Zinc acetate	171	9153
Water-reactive substances, solid, flammable, n.o.s.	138	3132	Zinc ammonium chloride	171	9154
Water-reactive substances, solid, n.o.s.	138	2813	Zinc ammonium nitrite	140	1512
	130	2013	Zinc arsenate	151	1712
Water-reactive substances, solid, oxidizing, n.o.s.	138	3133	Zinc arsenate and Zinc arsenite mixture	151	1712
Water-reactive substances,	139	3134	Zinc arsenite	151	1712
solid, poisonous, n.o.s.			Zinc arsenite and Zinc arsenate	151	1712
Water-reactive substances, solid, self-heating, n.o.s.	138	3135	mixture	400	1405
Water-reactive substances,	139	3134	Zinc ashes Zinc bisulfite solution	138	1435
solid, toxic, n.o.s.	137	5157		154 154	2693 2693
Wheelchair, electric, with batteries	154	3171	Zinc bisulphite solution Zinc borate	171	9155
White asbestos	171	2590	Zinc bromate	140	2469
White phosphorus, dry	136	1381	Zinc bromide	171	9156
White phosphorus, in solution	136	1381	Zinc carbonate	171	9157
White phosphorus, molten	136	2447	Zinc chlorate	140	1513
White phosphorus, under water		1381	Zinc chloride, anhydrous	154	2331
Wood preservatives, liquid	129	1306	Zinc chloride, solution	154	1840
Wool waste, wet	133		Zinc cyanide	151	1713
Xanthates	135	3342	Zinc dithionite	171	1931
Xenon	121	2036	Zinc dross	138	1435
Xenon, compressed	121	2036	Zinc dust	138	1436
Xenon, refrigerated liquid	120	2591	Zinc fluoride	151	9158
(cryogenic liquid)			Zinc fluorosilicate	151	2855

Name of Material (Guide	ID	Name of Material	Guide	ID
	No.	No.		No.	No.
Zinc formate	171	9159	Zirconium sulfate	171	9163
Zinc hydrosulfite	171	1931	Zirconium sulphate	171	9163
Zinc hydrosulphite	171	1931	Zirconium suspended in a	170	1308
Zinc nitrate	140	1514	flammable liquid		
Zinc permanganate	140	1515	Zirconium suspended in a liquio (flammable)	170	1308
Zinc peroxide	143	1516	Zirconium tetrachloride	137	2503
Zinc phenolsulfonate	171	9160	Zircomuni tetracinonue	137	2000
Zinc phenolsulphonate	171	9160			
Zinc phosphide	139	1714			
Zinc powder	138	1436			
Zinc residue	138	1435			
Zinc resinate	133	2714			
Zinc selenate	151	2630			
Zinc selenite	151	2630			
Zinc silicofluoride	151	2855			
Zinc skimmings	138	1435			
Zinc sulfate	171	9161			
Zinc sulphate	171	9161			
Zirconium, dry, coiled wire, finished metal sheets or strips	170	2858			
Zirconium, dry, finished sheets, strips or coiled wire	135	2009			
Zirconium hydride	138	1437			
Zirconium metal, liquid, suspension	170	1308			
Zirconium metal, powder, wet	170	1358			
Zirconium nitrate	140	2728			
Zirconium picramate, wetted with not less than 20% water	113	1517			
Zirconium potassium fluoride	171	9162			
Zirconium powder, dry	135	2008			
Zirconium powder, wetted with not less than 25% water	170	1358			
	135	1932			

<u>NOTES</u>

ERG2000 GUIDE

GUIDES

FIRE OR EXPLOSION

- May explode from heat, shock, friction or contamination.
- · May react violently or explosively on contact with air, water or foam.
- May be ignited by heat, sparks or flames.
- Vapors may travel to source of ignition and flash back.
- · Containers may explode when heated.
- Ruptured cylinders may rocket.

HEALTH

- Inhalation, ingestion or contact with substance may cause severe injury, infection, disease or death.
- · High concentration of gas may cause asphyxiation without warning.
- Contact may cause burns to skin and eyes.
- Fire or contact with water may produce irritating, toxic and/or corrosive gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations.

EVACUATION

Fire

FIRE

CAUTION: Material may react with extinguishing agent.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks

- Cool containers with flooding quantities of water until well after fire is out.
- Do not get water inside containers.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.

Small Spills • Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills • Dike far ahead of liquid spill for later disposal.

- Move victim to fresh air.
 Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- $\bullet \ \ {\sf Remove\ and\ isolate\ contaminated\ clothing\ and\ shoes}.$
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Shower and wash with soap and water.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE EXPLOSIVES* - DIVISION 1.1, 1.2, 1.3, 1.5 OR ERG2000 1.6; CLASS A OR B

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- MAY EXPLODE AND THROW FRAGMENTS 1600 meters (1 MILE) OR MORE IF FIRE REACHES CARGO.
- For information on "Compatibility Group" letters, refer to Glossary section.

HEALTH

• Fire may produce irritating, corrosive and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions.
- · Move people out of line of sight of the scene and away from windows.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

- Consider initial evacuation for 800 meters (1/2 mile) in all directions.

Fire

- If rail car or trailer is involved in a fire and heavily encased explosives such as bombs or artillery projectiles are suspected, ISOLATE for 1600 m (1 mile) in all directions; also, initiate evacuation including emergency responders for 1600 m (1 mile) in all directions.
- When heavily encased explosives are not involved, evacuate the area for 800 meters (1/2 mile) in all directions.

^{*} For information on "Compatibility Group" letters, refer to the Glossary section.

FIRE

CARGO Fires

- DO NOT fight fire when fire reaches cargo! Cargo may EXPLODE!
- Stop all traffic and clear the area for at least 1600 meters (1 mile) in all directions and let burn.
- Do not move cargo or vehicle if cargo has been exposed to heat.

TIRE or VEHICLE Fires

- Use plenty of water FLOOD it! If water is not available, use CO $_{\gamma \ell}$ dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 meters (330 feet) OF ELECTRIC DETONATORS.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

^{*} For information on "Compatibility Group" letters, refer to the Glossary section.

FIRE OR EXPLOSION

- Flammable/combustible material.
- May be ignited by heat, sparks or flames.
- DRIED OUT material may explode if exposed to heat, flame, friction or shock; Treat as an explosive (GUIDE 112).
- Keep material wet with water or treat as an explosive (Guide 112).
- Runoff to sewer may create fire or explosion hazard.

HEALTH

- Some are toxic and may be fatal if inhaled, swallowed or absorbed through skin.
- Contact may cause burns to skin and eyes.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial evacuation for 500 meters (1/3 mile) in all directions.

Fire

FIRE

CARGO Fires

- DO NOT fight fire when fire reaches cargo! Cargo may EXPLODE!
- Stop all traffic and clear the area for at least 800 meters (1/2 mile) in all directions and let burn.
- Do not move cargo or vehicle if cargo has been exposed to heat.

TIRE or VEHICLE Fires

- Use plenty of water FLOOD it! If water is not available, use CO $_{\gamma \ell}$ dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.

Small Spills

• Flush area with flooding quantities of water.

Large Spills

- Wet down with water and dike for later disposal.
- KEEP "WETTED" PRODUCT WET BY SLOWLY ADDING FLOODING QUANTITIES OF WATER.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- MAY EXPLODE AND THROW FRAGMENTS 500 meters (1/3 MILE) OR MORE IF FIRE REACHES CARGO.
- For information on "Compatibility Group" letters, refer to Glossary section.

HEALTH

• Fire may produce irritating, corrosive and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions.
- · Move people out of line of sight of the scene and away from windows.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

- Consider initial evacuation for 250 meters (800 feet) in all directions.

Fire

 If rail car or trailer is involved in a fire, ISOLATE for 500 meters (1/3 mile) in all directions; also initiate evacuation including emergency responders for 500 meters (1/3 mile) in all directions.

^{*} For information on "Compatibility Group" letters, refer to the Glossary section.

FIRE

CARGO Fires

- DO NOT fight fire when fire reaches cargo! Cargo may EXPLODE!
- Stop all traffic and clear the area for at least 500 meters (1/3 mile) in all directions and let burn
- Do not move cargo or vehicle if cargo has been exposed to heat.

TIRE or VEHICLE Fires

- Use plenty of water FLOOD it! If water is not available, use CO $_{\scriptscriptstyle 2}$, dry chemical or dirt.
- If possible, and WITHOUT RISK, use unmanned hose holders or monitor nozzles from maximum distance to prevent fire from spreading to cargo area.
- Pay special attention to tire fires as re-ignition may occur. Stand by with extinguisher ready.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- · All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- DO NOT OPERATE RADIO TRANSMITTERS WITHIN 100 meters (330 feet) OF ELECTRIC DETONATORS.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

FIRST AID

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SUPPLEMENTAL INFORMATION

- Packages bearing the 1.4S label or packages containing material classified as 1.4S are designed or packaged in such a manner that when involved in a fire, may burn vigorously with localized detonations and projection of fragments.
- Effects are usually confined to immediate vicinity of packages.
- If fire threatens cargo area containing packages bearing the 1.4S label or packages containing material classified as 1.4S, consider isolating at least 15 meters (50 feet) in all directions. Fight fire with normal precautions from a reasonable distance.

^{*} For information on "Compatibility Group" letters, refer to the Glossary section.

FIRE OR EXPLOSION

- EXTREMELY FLAMMABLE.
- Will be easily ignited by heat, sparks or flames.
- Will form explosive mixtures with air.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- · Vapors may travel to source of ignition and flash back.
- Containers may explode when heated.
- Ruptured cylinders may rocket.

HEALTH

- · Vapors may cause dizziness or asphyxiation without warning.
- Some may be irritating if inhaled at high concentrations.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire may produce irritating and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 800 meters (1/2 mile).

Fire

FIRE

• DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Small Fires

• Dry chemical or CO₂.

Large Fires

- · Water spray or fog.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- $\bullet \ \ Cool \ containers \ with \ flooding \ quantities \ of \ water \ until \ well \ after \ fire \ is \ out.$
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- Prevent spreading of vapors through sewers, ventilation systems and confined areas.
- · Isolate area until gas has dispersed.

CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- Clothing frozen to the skin should be thawed before being removed.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- EXTREMELY FLAMMABLE.
- Will be easily ignited by heat, sparks or flames.
- Will form explosive mixtures with air.
- Silane will ignite spontaneously in air.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Vapors may travel to source of ignition and flash back.
- · Containers may explode when heated.
- Ruptured cylinders may rocket.

HEALTH

- · Vapors may cause dizziness or asphyxiation without warning.
- Some may be toxic if inhaled at high concentrations.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire may produce irritating and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 800 meters (1/2 mile).

Fire

FIRE

• DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Small Fires

• Dry chemical or CO₂.

Large Fires

- · Water spray or fog.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Stop leak if you can do it without risk.
- Do not touch or walk through spilled material.
- Do not direct water at spill or source of leak.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- Isolate area until gas has dispersed.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- TOXIC; Extremely Hazardous.
- May be fatal if inhaled or absorbed through skin.
- Initial odor may be irritating or foul and may deaden your sense of smell.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

FIRE OR EXPLOSION

- These materials are extremely flammable.
- May form explosive mixtures with air.
- May be ignited by heat, sparks or flames.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Vapors may travel to source of ignition and flash back.
- · Runoff may create fire or explosion hazard.
- Containers may explode when heated.
- · Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

• DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- · Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- Isolate area until gas has dispersed.
- Consider igniting spill or leak to eliminate toxic gas concerns.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet. Keep victim under observation.
- · Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- EXTREMELY FLAMMABLE.
- May be ignited by heat, sparks or flames.
- May form explosive mixtures with air.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Vapors may travel to source of ignition and flash back.
- Some of these materials may react violently with water.
- Containers may explode when heated.
- · Ruptured cylinders may rocket.

HEALTH

- May cause toxic effects if inhaled.
- · Vapors are extremely irritating.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 800 meters (1/2 mile).

Fire

FIRE

• DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Small Fires

• Dry chemical or CO₂.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet. Keep victim under observation.
- · Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Gases - Toxic - Flammable 119

POTENTIAL HAZARDS

HEALTH

- TOXIC; may be fatal if inhaled or absorbed through skin.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

FIRE OR EXPLOSION

- Flammable; may be ignited by heat, sparks or flames.
- May form explosive mixtures with air.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- · Vapors from liquefied gas are initially heavier than air and spread along ground.
- Vapors may travel to source of ignition and flash back.
- Some of these materials may react violently with water.
- · Containers may explode when heated.
- · Ruptured cylinders may rocket.
- · Runoff may create fire or explosion hazard.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

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FIRE

• DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED. Small Fires

• Dry chemical, CO₂, water spray or alcohol-resistant foam.

Large Fires

- · Water spray, fog or alcohol-resistant foam.
- FOR CHLOROSILANES, DO NOT USE WATER; use AFFF alcohol-resistant medium expansion foam.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- · Stop leak if you can do it without risk.
- Do not direct water at spill or source of leak.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- FOR CHLOROSILANES, use AFFF alcohol-resistant medium expansion foam to reduce vapors.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Isolate area until gas has dispersed.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- · Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet.
 Keep victim under observation.
- Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Gases - Inert 120 (Including Refrigerated Liquids)

POTENTIAL HAZARDS

HEALTH

- · Vapors may cause dizziness or asphyxiation without warning.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.

FIRE OR EXPLOSION

- · Non-flammable gases.
- · Containers may explode when heated.
- Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 meters (80 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids or solids.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

- Use extinguishing agent suitable for type of surrounding fire.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Allow substance to evaporate.
- · Ventilate the area.

CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Clothing frozen to the skin should be thawed before being removed.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Gases - Inert 121

POTENTIAL HAZARDS

HEALTH

- · Vapors may cause dizziness or asphyxiation without warning.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Contact with liquefied gas may cause frostbite.

FIRE OR EXPLOSION

- · Non-flammable gases.
- Containers may explode when heated.
- Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

- Use extinguishing agent suitable for type of surrounding fire.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Allow substance to evaporate.
- · Ventilate the area.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Clothing frozen to the skin should be thawed before being removed.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE GASES - OXIDIZING 122 (INCLUDING REFRIGERATED LIQUIDS)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Substance does not burn but will support combustion.
- Some may react explosively with fuels.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- · Runoff may create fire or explosion hazard.
- Containers may explode when heated.
- Ruptured cylinders may rocket.

HEALTH

- Vapors may cause dizziness or asphyxiation without warning.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire may produce irritating and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 500 meters (1/3 mile).

Fire

FIRE

• Use extinguishing agent suitable for type of surrounding fire.

Small Fires

• Dry chemical or CO₂.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Do not direct water at spill or source of leak.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Allow substance to evaporate.
- Isolate area until gas has dispersed.

CAUTION: When in contact with refrigerated/cryogenic liquids, many materials become brittle and are likely to break without warning.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- Clothing frozen to the skin should be thawed before being removed.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Gases - Toxic and/or Corrosive 123

POTENTIAL HAZARDS

HEALTH

- TOXIC; may be fatal if inhaled or absorbed through skin.
- · Vapors may be irritating.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire will produce irritating, corrosive and/or toxic gases.
- · Runoff from fire control may cause pollution.

FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- · Vapors from liquefied gas are initially heavier than air and spread along ground.
- Containers may explode when heated.
- · Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Dry chemical or CO₂.

Large Fires

- Water spray, fog or regular foam.
- Do not get water inside containers.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- · Isolate area until gas has dispersed.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet. Keep victim under observation.
- Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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POTENTIAL HAZARDS

HEALTH

- TOXIC; may be fatal if inhaled or absorbed through skin.
- Fire will produce irritating, corrosive and/or toxic gases.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Runoff from fire control may cause pollution.

FIRE OR EXPLOSION

- Substance does not burn but will support combustion.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- These are strong oxidizers and will react vigorously or explosively with many materials including fuels.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- Some will react violently with air, moist air and/or water.
- Containers may explode when heated.
- · Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY;
 it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires: Water only; no dry chemical, CO, or Halon®.

- Contain fire and let burn. If fire must be fought, water spray or fog is recommended.
- · Do not get water inside containers.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Isolate area until gas has dispersed.
- · Ventilate the area.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Clothing frozen to the skin should be thawed before being removed.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
 Keep victim under observation.
- Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Gases - Corrosive 125

POTENTIAL HAZARDS

HEALTH

- · TOXIC; may be fatal if inhaled.
- · Vapors are extremely irritating and corrosive.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire will produce irritating, corrosive and/or toxic gases.
- · Runoff from fire control may cause pollution.

FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Some of these materials may react violently with water.
- Containers may explode when heated.
- · Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Dry chemical or CO₂.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not get water inside containers.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- Do not direct water at spill or source of leak.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- · Isolate area until gas has dispersed.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet. Keep victim under observation.
- Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Some may burn, but none ignite readily.
- Containers may explode when heated.
- Ruptured cylinders may rocket.

HEALTH

- · Vapors may cause dizziness or asphyxiation without warning.
- Vapors from liquefied gas are initially heavier than air and spread along ground.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Fire may produce irritating, corrosive and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 meters (330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 500 meters (1/3 mile).

Fire

FIRE

• Use extinguishing agent suitable for type of surrounding fire.

Small Fires

• Dry chemical or CO₂.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Damaged cylinders should be handled only by specialists.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- Some of these materials, if spilled, may evaporate leaving a flammable residue.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Do not direct water at spill or source of leak.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- Allow substance to evaporate.
- · Ventilate the area.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- $\bullet \ \ \text{In case of contact with liquefied gas, thaw frosted parts with lukewarm water}.$
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE FLAMMABLE LIQUIDS 127 (POLAR/WATER-MISCIBLE)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- Many liquids are lighter than water.

HEALTH

- Inhalation or contact with material may irritate or burn skin and eyes.
- Fire may produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Small Fires

• Dry chemical, CO₂, water spray or alcohol-resistant foam.

Large Fires

- Water spray, fog or alcohol-resistant foam.
- Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean non-sparking tools to collect absorbed material.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor; but may not prevent ignition in closed spaces.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Wash skin with soap and water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- · Many liquids are lighter than water.
- Substance may be transported hot.

HEALTH

- Inhalation or contact with material may irritate or burn skin and eyes.
- Fire may produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Water spray, fog or regular foam.
- Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean non-sparking tools to collect absorbed material.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Water spray may reduce vapor; but may not prevent ignition in closed spaces.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Wash skin with soap and water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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POTENTIAL HAZARDS

FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- Many liquids are lighter than water.

HEALTH

- May cause toxic effects if inhaled or absorbed through skin.
- Inhalation or contact with material may irritate or burn skin and eyes.
- Fire will produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 300 meters (1000 feet).

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Small Fires • Dry chemical, CO₂, water spray or alcohol-resistant foam.

 Do not use dry chemical extinguishers to control fires involving nitromethane or nitroethane.

Large Fires

- Water spray, fog or alcohol-resistant foam.
- · Do not use straight streams.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean non-sparking tools to collect absorbed material.

Large Spills • Dike far ahead of liquid spill for later disposal.

• Water spray may reduce vapor; but may not prevent ignition in closed spaces.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- · Wash skin with soap and water.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- · Containers may explode when heated.
- Many liquids are lighter than water.

HEALTH

- May cause toxic effects if inhaled or absorbed through skin.
- Inhalation or contact with material may irritate or burn skin and eyes.
- Fire will produce irritating, corrosive and/or toxic gases.
- · Vapors may cause dizziness or suffocation.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Water spray, fog or regular foam.
- · Do not use straight streams.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Use clean non-sparking tools to collect absorbed material.

Large Spills • Dike far ahead of liquid spill for later disposal.

• Water spray may reduce vapor; but may not prevent ignition in closed spaces.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Wash skin with soap and water.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- TOXIC; may be fatal if inhaled, ingested or absorbed through skin.
- Inhalation or contact with some of these materials will irritate or burn skin and eyes.
- Fire will produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Runoff from fire control or dilution water may cause pollution.

FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapor explosion and poison hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- Many liquids are lighter than water.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

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FIRE

CAUTION: All these products have a very low flash point: Use of water spray when fighting fire may be inefficient.

Small Fires • Dry chemical, CO₂, water spray or alcohol-resistant foam.

Large Fires

- Water spray, fog or alcohol-resistant foam.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.
- Use water spray or fog; do not use straight streams.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- · Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.

Small Spills • Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

• Use clean non-sparking tools to collect absorbed material.

Large Spills • Dike far ahead of liquid spill for later disposal.

• Water spray may reduce vapor; but may not prevent ignition in closed spaces.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Wash skin with soap and water.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Flammable/combustible materials.
- May be ignited by heat, sparks or flames.
- · Vapors may form explosive mixtures with air.
- Vapors may travel to source of ignition and flash back.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Vapor explosion hazard indoors, outdoors or in sewers.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Runoff to sewer may create fire or explosion hazard.
- Containers may explode when heated.
- · Many liquids are lighter than water.

HEALTH

- May cause toxic effects if inhaled or ingested/swallowed.
- Contact with substance may cause severe burns to skin and eyes.
- Fire will produce irritating, corrosive and/or toxic gases.
- Vapors may cause dizziness or suffocation.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Large Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

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FIRE

· Some of these materials may react violently with water.

 $\textbf{Small Fires} \ \ \bullet \textbf{Dry chemical, CO}_{2}, \textbf{water spray or alcohol-resistant foam}.$

Large Fires

- Water spray, fog or alcohol-resistant foam.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.
- Do not get water inside containers.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- A vapor suppressing foam may be used to reduce vapors.
- Absorb with earth, sand or other non-combustible material and transfer to containers (except for Hydrazine).
- Use clean non-sparking tools to collect absorbed material.

Large Spills • Dike far ahead of liquid spill for later disposal.

• Water spray may reduce vapor; but may not prevent ignition in closed spaces.

- Move victim to fresh air.
 Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Flammable/combustible material.
- May be ignited by friction, heat, sparks or flames.
- Some may burn rapidly with flare burning effect.
- Powders, dusts, shavings, borings, turnings or cuttings may explode or burn with explosive violence.
- Substance may be transported in a molten form.
- May re-ignite after fire is extinguished.

HEALTH

- Fire may produce irritating and/or toxic gases.
- Contact may cause burns to skin and eyes.
- Contact with molten substance may cause severe burns to skin and eyes.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

Small Fires

• Dry chemical, CO₂, sand, earth, water spray or regular foam.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Cool containers with flooding quantities of water until well after fire is out.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.

Small Dry Spills

• With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Large Spills

- Wet down with water and dike for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Removal of solidified molten material from skin requires medical assistance.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Flammable/combustible material.
- May be ignited by heat, sparks or flames.
- When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers
 explosion hazards.
- Contact with metals may evolve flammable hydrogen gas.
- · Containers may explode when heated.

HEALTH

- TOXIC; inhalation, ingestion, or skin contact with material may cause severe injury or death.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Stay upwind.
- · Keep unauthorized personnel away.
- · Keep out of low areas.
- · Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

Small Fires

• Dry chemical, CO₂, water spray or alcohol-resistant foam.

Large Fires

- Water spray, fog or alcohol-resistant foam.
- Move containers from fire area if you can do it without risk.
- Use water spray or fog; do not use straight streams.
- Do not get water inside containers.
- Dike fire control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Stop leak if you can do it without risk.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Prevent entry into waterways, sewers, basements or confined areas.
- Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Flammable/combustible material.
- May ignite on contact with moist air or moisture.
- · May burn rapidly with flare-burning effect.
- Some react vigorously or explosively on contact with water.
- Some may decompose explosively when heated or involved in a fire.
- May re-ignite after fire is extinguished.
- · Runoff may create fire or explosion hazard.

HEALTH

- Fire will produce irritating, corrosive and/or toxic gases.
- Inhalation of decomposition products may cause severe injury or death.
- Contact with substance may cause severe burns to skin and eyes.
- · Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 150 meters (330 to 490 feet) in all directions.
- · Stay upwind.
- · Keep unauthorized personnel away.
- · Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

- DO NOT USE WATER, CO, OR FOAM ON MATERIAL ITSELF.
- Some of these materials may react violently with water.

EXCEPTION: For Dithionite (Hydrosulfite/Hydrosulphite) UN1384, UN1923 and UN1929, USE FLOODING AMOUNTS OF WATER for SMALL AND LARGE fires to stop the reaction. Smothering will not work for these materials. They do not need air to burn. Small Fires

• Dry chemical, soda ash, lime or DRY sand, EXCEPT for UN1384, UN1923 and UN1929. Large Fires

- DRY sand, dry chemical, soda ash or lime, **EXCEPT for UN1384, UN1923 and UN1929**, or withdraw from area and let fire burn.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers or in contact with substance.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leak with no fire.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.

Small Spills

EXCEPTION: For Dithionite (Hydrosulfite/Hydrosulphite) spills, UN1384, UN1923 and UN1929, dissolve with 5 parts water and collect for proper disposal.

- Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Extremely flammable; will ignite itself if exposed to air.
- Burns rapidly, releasing dense, white, irritating fumes.
- Substance may be transported in a molten form.
- · May re-ignite after fire is extinguished.

HEALTH

- Fire will produce irritating, corrosive and/or toxic gases.
- TOXIC; ingestion of substance or inhalation of decomposition products will cause severe injury or death.
- Contact with substance may cause severe burns to skin and eyes.
- Some effects may be experienced due to skin absorption.
- Runoff from fire control may be corrosive and/or toxic and cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 150 meters (330 to 490 feet) in all directions.
- · Stay upwind.
- Keep unauthorized personnel away.
- · Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• Consider initial downwind evacuation for at least 300 meters (1000 feet).

Fire

FIRE

Small Fires

• Water spray, wet sand or wet earth.

Large Fires

- · Water spray or fog.
- Do not scatter spilled material with high pressure water streams.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.

Small Spills

• Cover with water, sand or earth. Shovel into metal container and keep material under water.

Large Spills

- Dike for later disposal and cover with wet sand or earth.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- In case of contact with substance, keep exposed skin areas immersed in water or covered with wet bandages until medical attention is received.
- Removal of solidified molten material from skin requires medical assistance.
- Remove and isolate contaminated clothing and shoes at the site and place in metal container filled with water. Fire hazard if allowed to dry.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death.
- Fire will produce irritating, corrosive and/or toxic gases.
- Reaction with water may generate much heat which will increase the concentration of fumes in the air.
- Contact with molten substance may cause severe burns to skin and eyes.
- Runoff from fire control or dilution water may cause pollution.

FIRE OR EXPLOSION

- Some of these materials may burn, but none ignite readily.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- Substance will react with water (some violently), releasing corrosive and/or toxic gases.
- Flammable/toxic gases may accumulate in confined areas (basement, tanks, hopper/tank cars etc.)
- Contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated or if contaminated with water.
- Substance may be transported in a molten form.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Keep out of low areas.
- · Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

• When material is not involved in fire: do not use water on material itself.

Small Fires

- Dry chemical or CO 2.
- Move containers from fire area if you can do it without risk.

Large Fires

• Flood fire area with large quantities of water, while knocking down vapors with water fog. If insufficient water supply: knock down vapors only.

Fire involving Tanks or Car/Trailer Loads

- Cool containers with flooding quantities of water until well after fire is out.
- Do not get water inside containers.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container.
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Small Spills • Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

- Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Removal of solidified molten material from skin requires medical assistance.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

ERG2000

SUBSTANCES - WATER-REACTIVE (EMITTING FLAMMABLE GASES)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Produce flammable gases on contact with water.
- May ignite on contact with water or moist air.
- Some react vigorously or explosively on contact with water.
- May be ignited by heat, sparks or flames.
- May re-ignite after fire is extinguished.
- Some are transported in highly flammable liquids.
- Runoff may create fire or explosion hazard.

HEALTH

- Inhalation or contact with vapors, substance, or decomposition products may cause severe injury or death.
- May produce corrosive solutions on contact with water.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- · Ventilate the area before entry.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 250 meters (800 feet).

Fire

FIRE

DO NOT USE WATER OR FOAM.

Small Fires

• Dry chemical, soda ash, lime or sand.

Large Fires

- DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.
- Move containers from fire area if you can do it without risk.

Magnesium Fires

•DRY sand, sodium chloride powder, graphite powder or Met-L-X * powder.

Lithium Fires

• DRY sand, sodium chloride powder, graphite powder, copper powder or Lith-X * powder.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- · Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- DO NOT GET WATER on spilled substance or inside containers.

Small Spills • Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

• Dike for later disposal; do not apply water unless directed to do so.

Powder Spills • Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

 DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- $\bullet \ \ Remove \ and \ isolate \ contaminated \ clothing \ and \ shoes.$
- In case of contact with substance, wipe from skin immediately; flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

ERG2000

FLAMMABLE AND TOXIC GASES) POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Produce flammable and toxic gases on contact with water.
- May ignite on contact with water or moist air.
- Some react vigorously or explosively on contact with water.
- May be ignited by heat, sparks or flames.
- · May re-ignite after fire is extinguished.
- Some are transported in highly flammable liquids.
- · Runoff may create fire or explosion hazard.

HEALTH

- Highly toxic: contact with water produces toxic gas, may be fatal if inhaled.
- Inhalation or contact with vapors, substance, or decomposition products may cause severe injury or death.
- May produce corrosive solutions on contact with water.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 150 meters (330 to 490 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- · Keep out of low areas.
- · Ventilate the area before entry.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Large Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

- DO NOT USE WATER OR FOAM. (FOAMMAY BE USED FOR CHLOROSILANES, SEE BELOW)
 Small Fires
- Dry chemical, soda ash, lime or sand.

Large Fires

- DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.
- FOR CHLORÓSILANES, DO NOT USE WATER; use AFFF alcohol-resistant medium expansion foam; DO NOT USE dry chemicals, soda ash or lime on chlorosilane fires (large or small) as they may release large quantities of hydrogen gas which may explode.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- · Do not get water inside containers.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- DO NOT GET WATER on spilled substance or inside containers.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- FOR CHLOROSILANES, use AFFF alcohol-resistant medium expansion foam to reduce vanors

Small Spills • Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

Dike for later disposal; do not apply water unless directed to do so.

Powder Spills • Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.

• DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
 Remove and isolate contaminated clothing and shoes.
 In case of contact with substance, wipe from skin immediately; flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
 Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE OXIDIZERS 140

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- These substances will accelerate burning when involved in a fire.
- Some may decompose explosively when heated or involved in a fire.
- May explode from heat or contamination.
- Some will react explosively with hydrocarbons (fuels).
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- Inhalation, ingestion or contact (skin, eyes) with vapors or substance may cause severe injury, burns, or death.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

Small Fires

• Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control.

Large Fires

- Flood fire area with water from a distance.
- Move containers from fire area if you can do it without risk.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Do not get water inside containers.

Small Dry Spills

 With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Small Liquid Spills

• Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- · Following product recovery, flush area with water.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE OXIDIZERS - TOXIC (SOLID) 141

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- These substances will accelerate burning when involved in a fire.
- May explode from heat or contamination.
- Some may burn rapidly.
- Some will react explosively with hydrocarbons (fuels).
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- · Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- · Toxic by ingestion.
- Inhalation of dust is toxic.
- Fire may produce irritating, corrosive and/or toxic gases.
- Contact with substance may cause severe burns to skin and eyes.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

Small Fires

• Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control.

Large Fires

- Flood fire area with water from a distance.
- Move containers from fire area if you can do it without risk.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.

Small Dry Spills

 With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Large Spills

· Dike far ahead of spill for later disposal.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE OXIDIZERS - TOXIC (LIQUID) 142

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- These substances will accelerate burning when involved in a fire.
- May explode from heat or contamination.
- Some will react explosively with hydrocarbons (fuels).
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- · Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors or substance may cause severe injury, burns or death.
- Fire may produce irritating, corrosive and/or toxic gases.
- Toxic/flammable fumes may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).
- · Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY;
 it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control.

Large Fires

- Flood fire area with water from a distance.
- Move containers from fire area if you can do it without risk.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift.
- Do not get water inside containers.

Small Liquid Spills

• Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spills

• Dike far ahead of liquid spill for later disposal.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE OXIDIZERS (UNSTABLE) 143

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- May explode from friction, heat or contamination.
- These substances will accelerate burning when involved in a fire.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- Some will react explosively with hydrocarbons (fuels).
- · Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death.
- Fire may produce irritating and/or toxic gases.
- Toxic fumes or dust may accumulate in confined areas (basement, tanks, hopper/tank cars, etc.).
- · Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- · Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control.

Large Fires

- Flood fire area with water from a distance.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Move containers from fire area if you can do it without risk.
- Do not get water inside containers: a violent reaction may occur.
- Cool containers with flooding quantities of water until well after fire is out.
- Dike fire-control water for later disposal.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Use water spray to reduce vapors or divert vapor cloud drift.
- Prevent entry into waterways, sewers, basements or confined areas.

Small Spills

• Flush area with flooding quantities of water.

Large Spills

• DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- May ignite combustibles (wood, paper, oil, clothing, etc.).
- React vigorously and/or explosively with water.
- Produce toxic and/or corrosive substances on contact with water.
- Flammable/toxic gases may accumulate in tanks and hopper cars.
- · Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- TOXIC; inhalation or contact with vapor, substance, or decomposition products may cause severe injury or death.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

See the Table of Initial Isolation and Protective Action Distances for highlighted substances.
 For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

· DO NOT USE WATER OR FOAM.

Small Fires

• Dry chemical, soda ash or lime.

Large Fires

- DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- DO NOT GET WATER on spilled substance or inside containers.

Small Spills

• Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

Large Spills

• DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet. Keep victim under observation.
- Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE ORGANIC PEROXIDES 145 (Heat and Contamination Sensitive)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- May explode from heat or contamination.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- May be ignited by heat, sparks or flames.
- May burn rapidly with flare-burning effect.
- · Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- Fire may produce irritating, corrosive and/or toxic gases.
- Ingestion or contact (skin, eyes) with substance may cause severe injury or burns.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial evacuation for at least 250 meters (800 feet).

Fire

FIRE

Small Fires

- Water spray or fog is preferred; if water not available use dry chemical, CO $_{\scriptscriptstyle 2}$ or regular foam.

Large Fires

- Flood fire area with water from a distance.
- · Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- · Keep substance wet using water spray.
- Stop leak if you can do it without risk.

Small Spills

• Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal.

Large Spills

- Wet down with water and dike for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- Remove material from skin immediately.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- May explode from heat, shock, friction or contamination.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- May be ignited by heat, sparks or flames.
- May burn rapidly with flare-burning effect.
- · Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- Fire may produce irritating, corrosive and/or toxic gases.
- Ingestion or contact (skin, eyes) with substance may cause severe injury or burns.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial evacuation for at least 250 meters (800 feet).

Fire

FIRE

Small Fires

- Water spray or fog is preferred; if water not available use dry chemical, CO $_{\scriptscriptstyle 2}$ or regular foam.

Large Fires

- Flood fire area with water from a distance.
- Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- · Keep substance wet using water spray.
- Stop leak if you can do it without risk.

Small Spills

• Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal.

Large Spills

- Wet down with water and dike for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- Remove material from skin immediately.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

ERG2000

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- May explode from heat or contamination.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- May be ignited by heat, sparks or flames.
- May burn rapidly with flare-burning effect.
- · Containers may explode when heated.
- · Runoff may create fire or explosion hazard.

HEALTH

- TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death.
- Contact of vapor or substance with eyes may cause blindness within minutes.
- Fire may produce irritating, corrosive and/or toxic gases.
- Toxic fumes or dust may accumulate in confined areas (basement, tanks, hopper/tank cars,
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Large Spill

• Consider initial evacuation for at least 250 meters (800 feet).

FIRE

Small Fires

- Water spray or fog is preferred; if water not available use dry chemical, CO $_{\scriptscriptstyle 2}$ or regular foam.

Large Fires

- Flood fire area with water from a distance.
- · Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- · Keep substance wet using water spray.
- Stop leak if you can do it without risk.

Small Spills

• Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal.

Large Spills

- Wet down with water and dike for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- Remove material from skin immediately.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- May explode from heat, contamination or loss of temperature control.
- These materials are particularly sensitive to temperature rises. Above a given "Control Temperature" they decompose violently and catch fire.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- May ignite spontaneously if exposed to air.
- May be ignited by heat, sparks or flames.
- May burn rapidly with flare-burning effect.
- Containers may explode when heated.
- Runoff may create fire or explosion hazard.

HEALTH

- Fire may produce irritating, corrosive and/or toxic gases.
- Ingestion or contact (skin, eyes) with substance may cause severe injury or burns.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- DO NOT allow the substance to warm up. Obtain liquid nitrogen, dry ice or ice for cooling. If none can be obtained, evacuate the area immediately.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial evacuation for at least 250 meters (800 feet).

Fire

FIRE

 The temperature of the substance must be maintained at or below the "Control Temperature" at all times.

Small Fires

• Water spray or fog is preferred; if water not available use dry chemical, CO , or regular foam.

Large Fires

- Flood fire area with water from a distance.
- Use water spray or fog; do not use straight streams.
- Move containers from fire area if you can do it without risk.
- Do not move cargo or vehicle if cargo has been exposed to heat.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- BEWARE OF POSSIBLE CONTAINER EXPLOSION.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.

Small Spills

• Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- · Remove material from skin immediately.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Substances (Self-Reactive) 149

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Self-decomposition or self-ignition may be triggered by heat, chemical reaction, friction or impact.
- May be ignited by heat, sparks or flames.
- Some may decompose explosively when heated or involved in a fire.
- May burn violently. Decomposition may be self-accelerating and produce large amounts of gases.
- Vapors or dust may form explosive mixtures with air.

HEALTH

- Inhalation or contact with vapors, substance, or decomposition products may cause severe injury or death.
- May produce irritating, toxic and/or corrosive gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 250 meters (800 feet).

Fire

FIRE

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Flood fire area with water from a distance.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- BEWARE OF POSSIBLE CONTAINER EXPLOSION.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.

Small Spills

- Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Self-decomposition or self-ignition may be triggered by heat, chemical reaction, friction or impact.
- Self-accelerating decomposition may occur if the specific control temperature is not maintained.
- These materials are particularly sensitive to temperature rises. Above a given "Control Temperature" they decompose violently and catch fire.
- May be ignited by heat, sparks or flames.
- Some may decompose explosively when heated or involved in a fire.
- May burn violently. Decomposition may be self-accelerating and produce large amounts of gases.
- Vapors or dust may form explosive mixtures with air.

HEALTH

- Inhalation or contact with vapors, substance, or decomposition products may cause severe injury or death.
- May produce irritating, toxic and/or corrosive gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- DO NOT allow the substance to warm up. Obtain liquid nitrogen, dry ice or ice for cooling. If none can be obtained, evacuate the area immediately.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 250 meters (800 feet).

Fire



FIRE

 The temperature of the substance must be maintained at or below the "Control Temperature" at all times.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Flood fire area with water from a distance.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

- BEWARE OF POSSIBLE CONTAINER EXPLOSION.
- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- · Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.

Small Spills

- Take up with inert, damp, noncombustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- Highly toxic, may be fatal if inhaled, swallowed or absorbed through skin.
- · Avoid any skin contact.
- Effects of contact or inhalation may be delayed.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FIRE OR EXPLOSION

- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- · Containers may explode when heated.
- Runoff may pollute waterways.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Dry chemical, CO₂ or water spray.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.
- Use water spray or fog; do not use straight streams.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Cover with plastic sheet to prevent spreading.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- DO NOT GET WATER INSIDE CONTAINERS.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- Highly toxic, may be fatal if inhaled, swallowed or absorbed through skin.
- Contact with molten substance may cause severe burns to skin and eyes.
- · Avoid any skin contact.
- Effects of contact or inhalation may be delayed.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FIRE OR EXPLOSION

- · Combustible material: may burn but does not ignite readily.
- Containers may explode when heated.
- Runoff may pollute waterways.
- Substance may be transported in a molten form.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- · Keep out of low areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Dry chemical, CO₂ or water spray.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.
- Use water spray or fog; do not use straight streams.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- · Cover with plastic sheet to prevent spreading.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- DO NOT GET WATER INSIDE CONTAINERS.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- TOXIC; inhalation, ingestion, or skin contact with material may cause severe injury or death.
- Contact with molten substance may cause severe burns to skin and eyes.
- · Avoid any skin contact.
- Effects of contact or inhalation may be delayed.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FIRE OR EXPLOSION

- Combustible material: may burn but does not ignite readily.
- When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers
 explosion hazards.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- Contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated.
- Runoff may pollute waterways.
- Substance may be transported in a molten form.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all
 directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Keep out of low areas.
- · Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Dry chemical, CO₂ or water spray.

Large Fires

- Dry chemical, CO₂, alcohol-resistant foam or water spray.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- DO NOT GET WATER INSIDE CONTAINERS.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- TOXIC; inhalation, ingestion, or skin contact with material may cause severe injury or death.
- Contact with molten substance may cause severe burns to skin and eyes.
- · Avoid any skin contact.
- Effects of contact or inhalation may be delayed.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FIRE OR EXPLOSION

- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).
- Contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.
- · Keep out of low areas.
- Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

Small Fires

• Dry chemical, CO₂ or water spray.

Large Fires

- Dry chemical, CO₂, alcohol-resistant foam or water spray.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- DO NOT GET WATER INSIDE CONTAINERS.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames.
- Vapors form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Vapors may travel to source of ignition and flash back.
- Substance will react with water (some violently) releasing flammable, toxic or corrosive gases and runoff.
- Contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated or if contaminated with water.

HEALTH

- TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death.
- Bromoacetates and chloroacetates are extremely irritating/lachrymators.
- Reaction with water or moist air will release toxic, corrosive or flammable gases.
- Reaction with water may generate much heat which will increase the concentration of fumes in the air.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- · Keep out of low areas.
- · Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

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FIRE

- Note: Most foams will react with the material and release corrosive/toxic gases. **Small Fires** CO₂, dry chemical, dry sand, alcohol-resistant foam.
- Large Fires
- Water spray, fog or alcohol-resistant foam.
- FOR CHLOROSILANES, DO NOT USE WATER; use AFFF alcohol-resistant medium expansion foam.
- Move containers from fire area if you can do it without risk.
- · Use water spray or fog; do not use straight streams.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- · Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- A vapor suppressing foam may be used to reduce vapors.
- FOR CHLOROSILANES, use AFFF alcohol-resistant medium expansion foam to reduce vapors
- DO NOT GET WATER on spilled substance or inside containers.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.

Small Spills • Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

 Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- · Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- · Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to
 protect themselves.

FIRE OR EXPLOSION

- Combustible material: may burn but does not ignite readily.
- Substance will react with water (some violently) releasing flammable, toxic or corrosive gases and runoff.
- When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers
 explosion hazards.
- Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Vapors may travel to source of ignition and flash back.
- Contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated or if contaminated with water.

HEALTH

- TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death.
- Reaction with water or moist air will release toxic, corrosive or flammable gases.
- Reaction with water may generate much heat which will increase the concentration of fumes in the air.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- · Keep out of low areas.
- · Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY;
 it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

- Note: Most foams will react with the material and release corrosive/toxic gases. **Small Fires** • CO_2 , dry chemical, dry sand, alcohol-resistant foam.
- Large FiresWater spray, fog or alcohol-resistant foam.
- FOR CHLOROSILANES, DO NOT USE WATER; use AFFF alcohol-resistant medium expansion foam.
- Move containers from fire area if you can do it without risk.
- · Use water spray or fog; do not use straight streams.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- · Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- A vapor suppressing foam may be used to reduce vapors.
- FOR CHLOROSILANES, use AFFF alcohol-resistant medium expansion foam to reduce vapors
- DO NOT GET WATER on spilled substance or inside containers.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.

Small Spills • Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

 Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- · Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- · Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- TOXIC; inhalation, ingestion or contact (skin, eyes) with vapors, dusts or substance may cause severe injury, burns, or death.
- Reaction with water or moist air will release toxic, corrosive or flammable gases.
- Reaction with water may generate much heat which will increase the concentration of fumes in the air.
- · Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FIRE OR EXPLOSION

- Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.
- Vapors may accumulate in confined areas (basement, tanks, hopper/tank cars etc.).
- Substance will react with water (some violently), releasing corrosive and/or toxic gases.
- Reaction with water may generate much heat which will increase the concentration of fumes in the air.
- · Contact with metals may evolve flammable hydrogen gas.
- Containers may explode when heated or if contaminated with water.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- · Keep out of low areas.
- · Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

FIRE

- Note: Most foams will react with the material and release corrosive/toxic gases.
 Small Fires •CO₂ (except for Cyanides), dry chemical, dry sand, alcohol-resistant foam.
 Large Fires
- Water spray, fog or alcohol-resistant foam.
- Move containers from fire area if you can do it without risk.
- Use water spray or fog; do not use straight streams.
- Dike fire control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- · Stop leak if you can do it without risk.
- A vapor suppressing foam may be used to reduce vapors.
- DO NOT GET WATER INSIDE CONTAINERS.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Prevent entry into waterways, sewers, basements or confined areas.

Small Spills • Cover with DRY earth, DRY sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.

 Use clean non-sparking tools to collect material and place it into loosely covered plastic containers for later disposal.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Infectious Substances 158

POTENTIAL HAZARDS

HEALTH

- Inhalation or contact with substance may cause infection, disease, or death.
- Runoff from fire control may cause pollution.
- Note: Damaged packages containing solid CO as a refrigerant may produce water or frost from condensation of air. Do not touch this liquid as it could be contaminated by the contents of the parcel.

FIRE OR EXPLOSION

- Some of these materials may burn, but none ignite readily.
- Some may be transported in flammable liquids.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Obtain identity of substance involved.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.



FIRE

Small Fires

• Dry chemical, soda ash, lime or sand.

Large Fires

- Use extinguishing agent suitable for type of surrounding fire.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- · Absorb with earth, sand or other non-combustible material.
- Cover damaged package or spilled material with damp towel or rag and keep wet with liquid bleach or other disinfectant.
- DO NOT CLEAN-UP OR DISPOSE OF, EXCEPT UNDER SUPERVISION OF A SPECIALIST.

FIRST AID

• Move victim to a safe isolated area.

CAUTION: Victim may be a source of contamination.

- Call 911 or emergency medical service.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- For further assistance, contact your local Poison Control Center.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE Substances (Irritating) 159

POTENTIAL HAZARDS

HEALTH

- Inhalation of vapors or dust is extremely irritating.
- May cause burning of eyes and flow of tears.
- May cause coughing, difficult breathing and nausea.
- Brief exposure effects last only a few minutes.
- Exposure in an enclosed area may be very harmful.
- Fire will produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.

FIRE OR EXPLOSION

- · Some of these materials may burn, but none ignite readily.
- · Containers may explode when heated.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.

Small Spills

 Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- · Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim warm and quiet.
- Effects should disappear after individual has been exposed to fresh air for approximately 10 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

GUIDE HALOGENATED SOLVENTS 160

POTENTIAL HAZARDS

HEALTH

- Vapors may cause dizziness or suffocation.
- Exposure in an enclosed area may be very harmful.
- · Contact may irritate or burn skin and eyes.
- Fire may produce irritating and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.

FIRE OR EXPLOSION

- Some of these materials may burn, but none ignite readily.
- Most vapors are heavier than air.
- Air/vapor mixtures may explode when ignited.
- · Container may explode in heat of fire.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Keep unauthorized personnel away.
- · Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

FIRE

Small Fires

• Dry chemical, CO₂ or water spray.

Large Fires

- Dry chemical, CO₂, alcohol-resistant foam or water spray.
- Move containers from fire area if you can do it without risk.
- Dike fire control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Stop leak if you can do it without risk.

Small Liquid Spills

• Take up with sand, earth or other noncombustible absorbent material.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- Wash skin with soap and water.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel, and the public during transportation accidents. Packaging durability increases as potential hazard of radioactive content increases.
- Very low levels of contained radioactive materials and low radiation levels outside packages
 result in low risks to people. Damaged packages may release measurable amounts of
 radioactive material, but the resulting risks are expected to be low.
- Some radioactive materials cannot be detected by commonly available instruments.
- Packages do not have RADIOACTIVE I, II, or III labels. Some may have EMPTY labels or may have the word "Radioactive" in the package marking.

FIRE OR EXPLOSION

- Some of these materials may burn, but most do not ignite readily.
- Many have cardboard outer packaging; content (physically large or small) can be of many different physical forms.
- Radioactivity does not change flammability or other properties of materials.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Priorities for rescue, life-saving, first aid, and control of fire and other hazards are higher than the priority for measuring radiation levels.
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- · Stay upwind.
- · Keep unauthorized personnel away.
- Detain or isolate uninjured persons or equipment suspected to be contaminated; delay decontamination and cleanup until instructions are received from Radiation Authority.

PROTECTIVE CLOTHING

 Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

• When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

FIRE

- Presence of radioactive material will not influence the fire control processes and should not influence selection of techniques.
- Move containers from fire area if you can do it without risk.
- Do not move damaged packages; move undamaged packages out of fire zone.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

• Water spray, fog (flooding amounts).

SPILL OR LEAK

- Do not touch damaged packages or spilled material.
- Cover liquid spill with sand, earth or other noncombustible absorbent material.
- · Cover powder spill with plastic sheet or tarp to minimize spreading.

- Medical problems take priority over radiological concerns.
- Use first aid treatment according to the nature of the injury.
- Do not delay care and transport of a seriously injured person.
- · Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Injured persons contaminated by contact with released material are not a serious hazard to health care personnel, equipment or facilities.
- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel, and the public during transportation accidents. Packaging durability increases as potential hazard of radioactive content increases.
- Undamaged packages are safe. Contents of damaged packages may cause higher external radiation exposure, or both external and internal radiation exposure if contents are released.
- Low radiation hazard when material is inside container. If material is released from package or bulk container, hazard will vary from low to moderate. Level of hazard will depend on the type and amount of radioactivity, the kind of material it is in, and/or the surfaces it is on.
- Some material may be released from packages during accidents of moderate severity but risks to people are not great.
- Released radioactive materials or contaminated objects usually will be visible if packaging fails.
- Some exclusive use shipments of bulk and packaged materials will not have "RADIOACTIVE" labels.
 Placards, markings, and shipping papers provide identification.
- Some packages may have a "RADIOACTIVE" label and a second hazard label. The second hazard is usually greater than the radiation hazard; so follow this Guide as well as the response Guide for the second hazard class label.
- Some radioactive materials cannot be detected by commonly available instruments.
- Runoff from control of cargo fire may cause low-level pollution.

FIRE OR EXPLOSION

- Some of these materials may burn, but most do not ignite readily.
- Uranium and Thorium metal cuttings may ignite spontaneously if exposed to air (see Guide 136).
- Nitrates are oxidizers and may ignite other combustibles (see Guide 141).

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Priorities for rescue, life-saving, first aid, and control of fire and other hazards are higher than the priority for measuring radiation levels.
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
 Stay upwind.
 Keep unauthorized personnel away.
- Detain or isolate uninjured persons or equipment suspected to be contaminated; delay decontamination and cleanup until instructions are received from Radiation Authority.

PROTECTIVE CLOTHING

 Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

• When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

GUIDE 162

EMERGENCY RESPONSE

FIRE

- Presence of radioactive material will not influence the fire control processes and should not influence selection of techniques.
- Move containers from fire area if you can do it without risk.
- Do not move damaged packages; move undamaged packages out of fire zone.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Water spray, fog (flooding amounts).
- Dike fire-control water for later disposal.

SPILL OR LEAK

- Do not touch damaged packages or spilled material.
- Cover liquid spill with sand, earth or other noncombustible absorbent material.
- Dike to collect large liquid spills.
- Cover powder spill with plastic sheet or tarp to minimize spreading.

- Medical problems take priority over radiological concerns.
- Use first aid treatment according to the nature of the injury.
- Do not delay care and transport of a seriously injured person.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- In case of contact with substance, wipe from skin immediately: flush skin or eyes with running water for at least 20 minutes.
- Injured persons contaminated by contact with released material are not a serious hazard to health care personnel, equipment or facilities.
- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel, and the public during transportation accidents. Packaging durability increases as potential hazard of radioactive content increases.
- Undamaged packages are safe. Contents of damaged packages may cause higher external radiation exposure, or both external and internal radiation exposure if contents are released.
- Type A packages (cartons, boxes, drums, articles, etc.) identified as "Type A" by marking on packages or
 by shipping papers contain non-life endangering amounts. Partial releases might be expected if "Type A"
 packages are damaged in moderately severe accidents.
- Type B packages, and the rarely occurring Type C packages, (large and small, usually metal) contain the
 most hazardous amounts. They can be identified by package markings or by shipping papers. Life threatening
 conditions may exist only if contents are released or package shielding fails. Because of design, evaluation,
 and testing of packages, these conditions would be expected only for accidents of utmost severity.
- The rarely occurring "Special Arrangement" shipments may be of Type A, Type B or Type C packages. Package
 type will be marked on packages, and shipment details will be on shipping papers.
- Radioactive White-Habels indicate radiation levels outside single, isolated, undamaged packages are very low (less than 0.005 mSv/h (0.5 mrem/h)).
- Radioactive Yellow-II and Yellow-III labeled packages have higher radiation levels. The transport index (TI) on the label identifies the maximum radiation level in mrem/h one meter from a single, isolated, undamaged package.
- Some radioactive materials cannot be detected by commonly available instruments.
- Water from cargo fire control may cause pollution.

FIRE OR EXPLOSION

- Some of these materials may burn, but most do not ignite readily.
- · Radioactivity does not change flammability or other properties of materials.
- Type B packages are designed and evaluated to withstand total engulfment in flames at temperatures of 800°C (1475°F) for a period of 30 minutes.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Priorities for rescue, life-saving, first aid, and control of fire and other hazards are higher than the priority for measuring radiation levels.
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
 Stay upwind.
 Keep unauthorized personnel away.
- Detain or isolate uninjured persons or equipment suspected to be contaminated; delay decontamination and cleanup until instructions are received from Radiation Authority.

PROTECTIVE CLOTHING

 Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection against internal radiation exposure, but not external radiation exposure.

EVACUATION

Large Spill

Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

 When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

FIRE

- Presence of radioactive material will not influence the fire control processes and should not influence selection of techniques.
- Move containers from fire area if you can do it without risk.
- Do not move damaged packages; move undamaged packages out of fire zone.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- · Water spray, fog (flooding amounts).
- Dike fire-control water for later disposal.

SPILL OR LEAK

- Do not touch damaged packages or spilled material.
- Damp surfaces on undamaged or slightly damaged packages are seldom an indication of packaging failure. Most packaging for liquid content have inner containers and/or inner absorbent materials.
- · Cover liquid spill with sand, earth or other noncombustible absorbent material.

- Medical problems take priority over radiological concerns.
- Use first aid treatment according to the nature of the injury.
- Do not delay care and transport of a seriously injured person.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Injured persons contaminated by contact with released material are not a serious hazard to health care personnel, equipment or facilities.
- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel, and the public during transportation accidents. Packaging durability increases as potential hazard of radioactive content increases.
- Undamaged packages are safe; contents of damaged packages may cause external radiation
 exposure, and much higher external exposure if contents (source capsules) are released.
- · Contamination and internal radiation hazards are not expected, but not impossible.
- Type A packages (cartons, boxes, drums, articles, etc.) identified as "Type A" by marking on packages
 or by shipping papers contain non-life endangering amounts. Radioactive sources may be released if
 "Type A" packages are damaged in moderately severe accidents.
- Type B packages, and the rarely occurring Type C packages, (large and small, usually metal) contain
 the most hazardous amounts. They can be identified by package markings or by shipping papers. Life
 threatening conditions may exist only if contents are released or package shielding fails. Because of
 design, evaluation, and testing of packages, these conditions would be expected only for accidents of
 utmost severity.
- Radioactive White-I labels indicate radiation levels outside single, isolated, undamaged packages are very low (less than 0.005 mSv/h (0.5 mrem/h)).
- Radioactive Yellow-III and Yellow-IIII labeled packages have higher radiation levels. The transport index (TI) on the label identifies the maximum radiation level in mrem/h one meter from a single, isolated, undamaged package.
- Radiation from the package contents, usually in durable metal capsules, can be detected by most radiation instruments.
- Water from cargo fire control is not expected to cause pollution.

FIRE OR EXPLOSION

- Packagings can burn completely without risk of content loss from sealed source capsule.
- Radioactivity does not change flammability or other properties of materials.
- Radioactive source capsules and Type B packages are designed and evaluated to withstand total engulfment in flames at temperatures of 800°C (1475°F).

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Priorities for rescue, life-saving, first aid, and control of fire and other hazards are higher than
 the priority for measuring radiation levels.
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- Stay upwind. Keep unauthorized personnel away.
- · Delay final cleanup until instructions or advice is received from Radiation Authority.

PROTECTIVE CLOTHING

 Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection against internal radiation exposure, but not external radiation exposure.

EVACUATION

Large Spill

Consider initial downwind evacuation for at least 100 meters (330 feet)

Fire

 When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

FIRE

- Presence of radioactive material will not influence the fire control processes and should not influence selection of techniques.
- Move containers from fire area if you can do it without risk.
- Do not move damaged packages; move undamaged packages out of fire zone.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

Water spray, fog (flooding amounts)

SPILL OR LEAK

- Do not touch damaged packages or spilled material.
- Damp surfaces on undamaged or slightly damaged packages are seldom an indication of packaging failure. Contents are seldom liquid. Content is usually a metal capsule, easily seen if released from package.
- If source capsule is identified as being out of package, **DO NOT TOUCH**. Stay away and await advice from Radiation Authority.

- Medical problems take priority over radiological concerns.
- Use first aid treatment according to the nature of the injury.
- Do not delay care and transport of a seriously injured person.
- Persons exposed to special form sources are not likely to be contaminated with radioactive material.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Injured persons contaminated by contact with released material are not a serious hazard to health care personnel, equipment or facilities.
- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel, and the public during transportation accidents. Packaging durability increases as potential radiation and criticality hazards of the content increase.
- Undamaged packages are safe. Contents of damaged packages may cause higher external radiation exposure, or both external and internal radiation exposure if contents are released.
- Type AF or IF packages, identified by package markings, do not contain life-threatening amounts of
 material. External radiation levels are low and packages are designed, evaluated, and tested to control
 releases and to prevent a fission chain reaction under severe transport conditions.
- Type B(U)F, B(M)F and CF packages (identified by markings on packages or shipping papers) contain
 potentially life endangering amounts. Because of design, evaluation, and testing of packages, fission
 chain reactions are prevented and releases are not expected to be life endangering for all accidents
 except those of utmost severity.
- The rarely occurring "Special Arrangement" shipments may be of Type AF, BF or CF packages.
 Package type will be marked on packages, and shipment details will be on shipping papers.
- The transport index (TI) shown on labels or a shipping paper might not indicate the radiation level at
 one meter from a single, isolated, undamaged package; instead, it might relate to controls needed
 during transport because of the fissile properties of the materials.
- Some radioactive materials cannot be detected by commonly available instruments.
- Water from cargo fire control is not expected to cause pollution.

FIRE OR EXPLOSION

- These materials are seldom flammable. Packages are designed to withstand fires without damage to contents.
- · Radioactivity does not change flammability or other properties of materials.
- Type AF, IF, B(U)F, B(M)F and CF packages are designed and evaluated to withstand total
 engulfment in flames at temperatures of 800°C (1475°F) for a period of 30 minutes.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Priorities for rescue, life-saving, first aid, and control of fire and other hazards are higher than the priority for measuring radiation levels.
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
 Stay upwind.
 Keep unauthorized personnel away.
- Detain or isolate uninjured persons or equipment suspected to be contaminated; delay decontamination and cleanup until instructions are received from Radiation Authority.

PROTECTIVE CLOTHING

 Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection against internal radiation exposure, but not external radiation exposure.

EVACUATION

Large Spill

Consider initial downwind evacuation for at least 100 meters (330 feet)

Fire

 When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

FIRE

- Presence of radioactive material will not influence the fire control processes and should not influence selection of techniques.
- Move containers from fire area if you can do it without risk.
- Do not move damaged packages; move undamaged packages out of fire zone.

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

Water spray, fog (flooding amounts).

SPILL OR LEAK

- Do not touch damaged packages or spilled material.
- Damp surfaces on undamaged or slightly damaged packages are seldom an indication of packaging failure. Most packaging for liquid content have inner containers and/or inner absorbent materials.

Liquid Spills

 Package contents are seldom liquid. If any radioactive contamination resulting from a liquid release is present, it probably will be low-level.

- Medical problems take priority over radiological concerns.
- Use first aid treatment according to the nature of the injury.
- Do not delay care and transport of a seriously injured person.
- · Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Injured persons contaminated by contact with released material are not a serious hazard to health care personnel, equipment or facilities.
- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel, and the
 public during transportation accidents. Packaging durability increases as potential radiation and
 criticality hazards of the content increase.
- Chemical hazard greatly exceeds radiation hazard.
- Substance reacts with water and water vapor in air to form toxic and corrosive hydrogen fluoride gas and an extremely irritating and corrosive, white-colored, water-soluble residue.
- If inhaled, may be fatal.
- Direct contact causes burns to skin, eyes, and respiratory tract.
- Low-level radioactive material; very low radiation hazard to people.
- Runoff from control of cargo fire may cause low-level pollution.

FIRE OR EXPLOSION

- · Substance does not burn.
- Containers in protective overpacks (horizontal cylindrical shape with short legs for tie-downs), are identified with "AF" or "B(U)F" on shipping papers or by markings on the overpacks. They are designed and evaluated to withstand severe conditions including total engulfment in flames at temperatures of 800°C (1475°F).
- Bare filled cylinders, identified with UN2978 as part of the marking, may rupture in heat of
 engulfing fire; bare empty (except for residue) cylinders will not rupture in fires.
- The material may react violently with fuels.
- Radioactivity does not change flammability or other properties of materials.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Priorities for rescue, life-saving, first aid, and control of fire and other hazards are higher than the priority for measuring radiation levels.
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
 Stay upwind.
 Keep unauthorized personnel away.
- Detain or isolate uninjured persons or equipment suspected to be contaminated; delay decontamination and cleanup until instructions are received from Radiation Authority.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer.
 It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

 When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

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FIRE

- DO NOT USE WATER OR FOAM ON MATERIAL ITSELF.
- Move containers from fire area if you can do it without risk.

Small Fires

• Dry chemical or CO 2.

Large Fires

- Water spray, fog or regular foam.
- Cool containers with flooding quantities of water until well after fire is out.
- If this is impossible, withdraw from area and let fire burn.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Do not touch damaged packages or spilled material.
- Without fire or smoke, leak will be evident by visible and irritating vapors and residue forming at the point of release.
- Use fine water spray to reduce vapors; do not put water directly on point of material release from container.
- Residue buildup may self-seal small leaks.
- Dike far ahead of spill to collect runoff water.

- Medical problems take priority over radiological concerns.
- Use first aid treatment according to the nature of the injury.
- Do not delay care and transport of a seriously injured person.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.
- Injured persons contaminated by contact with released material are not a serious hazard to health care personnel, equipment or facilities.
- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

ERG2000

POTENTIAL HAZARDS

HEALTH

- TOXIC; may be fatal if inhaled.
- · Vapors are extremely irritating.
- Contact with gas or liquefied gas will cause burns, severe injury and/or frostbite.
- · Vapors from liquefied gas are initially heavier than air and spread along ground.
- Runoff from fire control may cause pollution.

FIRE OR EXPLOSION

- Substance does not burn but will support combustion.
- This is a strong oxidizer and will react vigorously or explosively with many materials including fuels.
- May ignite combustibles (wood, paper, oil, clothing, etc.).
- Vapor explosion and poison hazard indoors, outdoors or in sewers.
- Containers may explode when heated.
- · Ruptured cylinders may rocket.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY;
 it is not effective in spill situations.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 1600 meters (1 mile) in all directions; also, consider initial evacuation for 1600 meters (1 mile) in all directions.

FIRE

Small Fires

• Dry chemical, soda ash, lime or sand.

Large Fires

- Water spray, fog (flooding amounts).
- Do not get water inside containers.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.
- For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

SPILL OR LEAK

- · Do not touch or walk through spilled material.
- If you have not donned special protective clothing approved for this material, do not expose yourself to any risk of this material touching you.
- · Do not direct water at spill or source of leak.
- A fine water spray remotely directed to the edge of the spill pool can be used to direct and maintain a hot flare fire which will burn the spilled material in a controlled manner.
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- Isolate area until gas has dispersed.
- · Ventilate the area.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Clothing frozen to the skin should be thawed before being removed.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet. Keep victim under observation.
- Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

HEALTH

- TOXIC; Extremely Hazardous.
- Inhalation extremely dangerous; may be fatal.
- Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
- Odorless, will not be detected by sense of smell.

FIRE OR EXPLOSION

- EXTREMELY FLAMMABLE.
- May be ignited by heat, sparks or flames.
- Flame may be invisible.
- Containers may explode when heated.
- Vapor explosion and poison hazard indoors, outdoors or in sewers.
- · Vapors from liquefied gas are initially heavier than air and spread along ground.
- Vapors may travel to source of ignition and flash back.
- Runoff may create fire or explosion hazard

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 100 to 200 meters (330 to 660 feet) in all directions.
- Keep unauthorized personnel away.
- · Stay upwind.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- · Keep out of low areas.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY;
 it is not effective in spill situations.
- · Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

EVACUATION

Spill

• See the Table of Initial Isolation and Protective Action Distances for highlighted substances. For non-highlighted substances, increase, in the downwind direction, as necessary, the isolation distance shown under "PUBLIC SAFETY".

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

• DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

Small Fires

• Dry chemical, CO, or water spray.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- $\bullet \ \ Cool \ containers \ with \ flooding \ quantities \ of \ water \ until \ well \ after \ fire \ is \ out.$
- Do not direct water at source of leak or safety devices; icing may occur.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- All equipment used when handling the product must be grounded.
- Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire.
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
- Do not direct water at spill or source of leak.
- If possible, turn leaking containers so that gas escapes rather than liquid.
- Prevent entry into waterways, sewers, basements or confined areas.
- Isolate area until gas has dispersed.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
- Keep victim warm and quiet. Keep victim under observation.
- Effects of contact or inhalation may be delayed.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Substance is transported in molten form at a temperature above 705°C (1300°F).
- Violent reaction with water; contact may cause an explosion or may produce a flammable gas.
- Will ignite combustible materials (wood, paper, oil, debris, etc.).
- Contact with nitrates or other oxidizers may cause an explosion.
- Contact with containers or other materials, including cold, wet or dirty tools, may cause an explosion.
- Contact with concrete will cause spalling and small pops.

HEALTH

- Contact causes severe burns to skin and eyes.
- Fire may produce irritating and/or toxic gases.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 50 to 100 meters (160 to 330 feet) in all directions.
- · Keep unauthorized personnel away.
- · Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear flame retardant structural firefighters' protective clothing, including faceshield, helmet and gloves, this will provide limited thermal protection.

FIRE

- Do Not Use Water, except in life threatening situations and then only in a fine spray.
- Do not use halogenated extinguishing agents or foam.
- Move combustibles out of path of advancing pool if you can do so without risk.
- Extinguish fires started by molten material by using appropriate method for the burning material; keep water, halogenated extinguishing agents and foam away from the molten material.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Do not attempt to stop leak, due to danger of explosion.
- Keep combustibles (wood, paper, oil, etc.) away from spilled material.
- Substance is very fluid, spreads quickly, and may splash. Do not try to stop it with shovels or other objects.
- Dike far ahead of spill; use dry sand to contain the flow of material.
- Where possible allow molten material to solidify naturally.
- Avoid contact even after material solidifies. Molten, heated and cold aluminum look alike; do not touch unless you know it is cold.
- Clean up under the supervision of an expert after material has solidified.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- For severe burns, immediate medical attention is required.
- Removal of solidified molten material from skin requires medical assistance.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- · Keep victim warm and quiet.

FIRE OR EXPLOSION

- May react violently or explosively on contact with water.
- Some are transported in flammable liquids.
- May be ignited by friction, heat, sparks or flames.
- Some of these materials will burn with intense heat.
- Dusts or fumes may form explosive mixtures in air.
- Containers may explode when heated.
- May re-ignite after fire is extinguished.

HEALTH

- · Oxides from metallic fires are a severe health hazard.
- Inhalation or contact with substance or decomposition products may cause severe injury or death.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control or dilution water may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions.
- Stay upwind.
- · Keep unauthorized personnel away.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 50 meters (160 feet).

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

- DO NOT USE WATER, FOAM OR CO₂.
- Dousing metallic fires with water may generate hydrogen gas, an extremely dangerous explosion hazard, particularly if fire is in a confined environment (i.e., building, cargo hold, etc.).
- Use DRY sand, graphite powder, dry sodium chloride based extinguishers, G-1 $^\circ$ or Met-L-X $^\circ$ powder.
- Confining and smothering metal fires is preferable rather than applying water.
- Move containers from fire area if you can do it without risk.

Fire involving Tanks or Car/Trailer Loads

• If impossible to extinguish, protect surroundings and allow fire to burn itself out.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

FIRE OR EXPLOSION

- Some may burn but none ignite readily.
- Those substances designated with a "P" may polymerize explosively when heated or involved in a fire.
- · Containers may explode when heated.
- Some may be transported hot.

HEALTH

- Inhalation of material may be harmful.
- Contact may cause burns to skin and eyes.
- Inhalation of Asbestos dust may have a damaging effect on the lungs.
- Fire may produce irritating, corrosive and/or toxic gases.
- Runoff from fire control may cause pollution.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.
- · Keep unauthorized personnel away.
- Stay upwind.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

• If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

FIRE

Small Fires

• Dry chemical, CO₂, water spray or regular foam.

Large Fires

- Water spray, fog or regular foam.
- Move containers from fire area if you can do it without risk.
- Do not scatter spilled material with high pressure water streams.
- Dike fire-control water for later disposal.

Fire involving Tanks

- Cool containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- · ALWAYS stay away from tanks engulfed in fire.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- · Prevent dust cloud.
- · Avoid inhalation of asbestos dust.

Small Dry Spills

 With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

 Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

- Dike far ahead of liquid spill for later disposal.
- Cover powder spill with plastic sheet or tarp to minimize spreading.
- Prevent entry into waterways, sewers, basements or confined areas.

- Move victim to fresh air. Call 911 or emergency medical service.
- · Apply artificial respiration if victim is not breathing.
- · Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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POTENTIAL HAZARDS

HEALTH

- Inhalation of vapors or contact with substance will result in contamination and potential harmful effects.
- Fire will produce irritating, corrosive and/or toxic gases.

FIRE OR EXPLOSION

- Non-combustible, substance itself does not burn but may react upon heating to produce corrosive and/or toxic fumes.
- Runoff may pollute waterways.

PUBLIC SAFETY

- CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Isolate spill or leak area immediately for at least 10 to 25 meters (30 to 80 feet) in all directions.
- Stay upwind.
- · Keep unauthorized personnel away.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Large Spill

• Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

 When any large container is involved in a fire, consider initial evacuation for 500 meters (1/3 mile) in all directions.

FIRE

- Use extinguishing agent suitable for type of surrounding fire.
- Do not direct water at the heated metal.

SPILL OR LEAK

- Do not touch or walk through spilled material.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements or confined areas.
- Do not use steel or aluminum tools or equipment.
- Cover with earth, sand, or other non-combustible material followed with plastic sheet to minimize spreading or contact with rain.
- For mercury, use a mercury spill kit.
- Mercury spill areas may be subsequently treated with calcium sulphide/calcium sulfide or with sodium thiosulphate/sodium thiosulfate wash to neutralize any residual mercury.

- Move victim to fresh air. Call 911 or emergency medical service.
- Apply artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- Keep victim warm and quiet.
- Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

NOTES

INTRODUCTION TO THE TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

The Table of Initial Isolation and Protective Action Distances suggests distances useful to protect people from vapors resulting from spills involving dangerous goods which are considered toxic by inhalation (TIH), including certain chemical warfare agents, or which produce toxic gases upon contact with water. The Table provides first responders with initial guidance until technically qualified emergency response personnel are available. Distances show areas likely to be affected during the first 30 minutes after materials are spilled and could increase with time.

The **Initial Isolation Zone** defines an area SURROUNDING the incident in which persons may be exposed to dangerous (upwind) and life threatening (downwind) concentrations of material. The **Protective Action Zone** defines an area DOWNWIND from the incident in which persons may become incapacitated and unable to take protective action and/or incur serious or irreversible health effects. The Table provides specific guidance for small and large spills occurring day or night.

Adjusting distances for a specific incident involves many interdependent variables and should be made only by personnel technically qualified to make such adjustments. For this reason, no precise guidance can be provided in this document to aid in adjusting the table distances; however, general guidance follows.

Factors That May Change the Protective Action Distances

The guide for a material clearly indicates the evacuation distance required to protect against fragmentation hazard. If the material becomes involved in a **FIRE**, the toxic hazard may become less important than the fire or explosion hazard.

If more than one tank car, cargo tank, portable tank, or large cylinder involved in the incident is leaking, LARGE SPILL distances may need to be increased.

For material with a protective action distance of 11.0+ km (7.0+ miles), the actual distance can be larger in certain atmospheric conditions. If the dangerous goods vapor plume is channeled in a valley or between many tall buildings, distances may be larger than shown in the Table due to less mixing of the plume with the atmosphere. Daytime spills in regions with known strong inversions or snow cover, or occurring near sunset, accompanied by a steady wind, may require an increase in protective action distance. When these conditions are present, airborne contaminants mix and disperse more slowly and may travel much farther downwind. In addition, protective action distances may be larger for liquid spills when either the material or outdoor temperature exceeds 30 °C (86°F).

Materials which react with water to produce significant toxic gases are included in the Table of Initial Isolation and Protective Action Distances. Note that some materials which are TIH (e.g., bromine trifluoride, thionyl chloride, etc.) produce additional TIH materials when spilled

in water. For these materials, two entries are provided in the Table of Initial Isolation and Protective Action Distances. If it is not clear whether the spill is on land or in water, or in cases where the spill occurs both on land and in water, choose the larger Protective Action Distance. Following the Table of Initial Isolation and Protective Action Distances is a table that lists the materials which, when spilled in water, produce toxic gases and the toxic gases that these water reactive materials produce.

When a water reactive TIH producing material is spilled into a river or stream, the source of the toxic gas may move with the current or stretch from the spill point downstream for a substantial distance.

Certain chemical warfare agents have been added to the Table of Initial Isolation and Protective Action Distances. The distances shown were calculated using worst case scenarios for these agents **when used as a weapon**.

PROTECTIVE ACTION DECISION FACTORS TO CONSIDER

The choice of protective options for a given situation depends on a number of factors. For some cases, evacuation may be the best option; in others, sheltering in-place may be the best course. Sometimes, these two actions may be used in combination. In any emergency, officials need to quickly give the public instructions. The public will need continuing information and instructions while being evacuated or sheltered in-place.

Proper evaluation of the factors listed below will determine the effectiveness of evacuation or in-place protection. The importance of these factors can vary with emergency conditions. In specific emergencies, other factors may need to be identified and considered as well. This list indicates what kind of information may be needed to make the initial decision.

The Dangerous Goods

- · Degree of health hazard
- Amount involved
- · Containment/control of release
- · Rate of vapor movement

The Population Threatened

- Location
- Number of people
- · Time available to evacuate or shelter in-place
- Ability to control evacuation or shelter in-place
- Building types and availability
- Special institutions or populations, e.g., nursing homes, hospitals, prisons

Weather Conditions

- · Effect on vapor and cloud movement
- · Potential for change
- · Effect on evacuation or protection in-place

PROTECTIVE ACTIONS

Protective Actions are those steps taken to preserve the health and safety of emergency responders and the public during an incident involving releases of dangerous goods. The Table of Initial Isolation and Protective Action Distances (green-bordered pages) predicts the size of downwind areas which could be affected by a cloud of toxic gas. People in this area should be evacuated and/or sheltered in-place inside buildings.

Isolate Hazard Area and Deny Entry means keep everybody away from the area if they are not directly involved in emergency response operations. Unprotected emergency responders should not be allowed to enter the isolation zone. This "isolation" task is done first to establish control over the area of operations. This is the first step for any protective actions that may follow. See the Table of Isolation and Protective Action Distances (greenbordered pages) for more detailed information on specific materials.

Evacuate means move all people from a threatened area to a safer place. To perform an evacuation, there must be enough time for people to be warned, to get ready, and to leave an area. If there is enough time, evacuation is the best protective action. Begin evacuating people nearby and those outdoors in direct view of the scene. When additional help arrives, expand the area to be evacuated downwind and crosswind to at least the extent recommended in this guidebook. Even after people move to the distances recommended, they may not be completely safe from harm. They should not be permitted to congregate at such distances. Send evacuees to a definite place, by a specific route, far enough away so they will not have to be moved again if the wind shifts.

Shelter In-Place means people should seek shelter inside a building and remain inside until the danger passes. Sheltering in-place is used when evacuating the public would cause greater risk than staying where they are, or when an evacuation cannot be performed. Direct the people inside to close all doors and windows and to shut off all ventilating, heating and cooling systems. In-place protection may not be the best option if (a) the vapors are flammable; (b) if it will take a long time for the gas to clear the area; or (c) if buildings cannot be closed tightly. Vehicles can offer some protection for a short period if the windows are closed and the ventilating systems are shut off. Vehicles are not as effective as buildings for in-place protection.

It is vital to maintain communications with competent persons inside the buildingso that they are advised about changing conditions. Persons protected-in-place should be warned to stay far from windows because of the danger from glass and projected metal fragments in a fire and/or explosion.

Every dangerous goods incident is different. Each will have special problems and concerns. Action to protect the public must be selected carefully. These pages can help with **initial** decisions on how to protect the public. Officials must continue to gather information and monitor the situation until the threat is removed.

BACKGROUND ON THE INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCE TABLE

Initial Isolation and Protective Action Distances in this guidebook were determined for small and large spills occurring during day or night. The overall analysis was statistical in nature and utilized state-of-the-art emission rate and dispersion models; statistical release data from the U.S. DOT HMIS (Hazardous Materials Incident Reporting System) database; 5 years of meteorological observations from over 120 locations in United States, Canada and Mexico; and the most current toxicological exposure guidelines.

For each chemical, thousands of hypothetical releases were modeled to account for the statistical variation in both release amount and atmospheric conditions. Based on this statistical sample, the 90% percentile Protective Action Distance for each chemical and category was selected to appear in the Table. A brief description of the analysis is provided below. A detailed report outlining the methodology and data used in the generation of the Initial Isolation and Protective Action Distances may be obtained from the U.S. Department of Transp ortation, Research and Special Programs Administration.

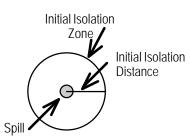
Release amounts and emission rates into the atmosphere were statistically modeled based on (1) data from the U.S. DOT HMIS database; (2) container types and sizes authorized for transport as specified in 49 CFR §172.101 and Part 173; (3) physical properties of the materials involved, and (4) atmospheric data from a historical database. The emission model calculated the release of vapor due to evaporation of pools on the ground, direct release of vapors from the container, or a combination of both, as would occur for liquefied gases which can flash to form both a vapor/aerosol mixture and an evaporating pool. In addition, the emission model also calculated the emission of toxic vapor by-products generated from spilling water-reactive chemicals in water. Spills that involve releases of approximately 200 liters or less are considered Small Spills, while spills that involve quantities greater than 200 liters are considered Large Spills.

Downwind dispersion of the vapor was estimated for each case modeled. Atmospheric parameters affecting the dispersion, and the emission rate, were selected in a statistical fashion from a database containing hourly meteorological data from 120 cities in United States, Canada and Mexico. The dispersion calculation accounted for the time dependent emission rate from the source as well as the density of the vapor plume (i.e., heavy gas effects). Since atmospheric mixing is less effective at dispersing vapor plumes during nighttime, day and night were separated in the analysis. In the Table, "Day" refers to time periods after sunrise and before sunset, while "Night" includes all hours between sunset and sunrise.

Toxicological short-term exposure guidelines for the chemicals were applied to determine the downwind distance to which persons may become incapacitated and unable to take protective action or may incur serious health effects. Toxicological exposure guidelines were chosen from (1) emergency response guidelines, (2) occupational health guidelines, or (3) lethal concentrations determined from animal studies, as recommended by an independent panel of toxicological experts from industry and academia.

HOW TO USE THE TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

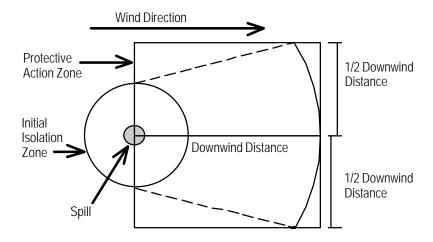
- (1) The responder should already have:
 - Identified the material by its ID Number and Name; (if an ID Number cannot be found, use the name of material index in the blue-bordered pages to locate that number.)
 - Found the three-digit guide for that material in order to consult the emergency actions recommended jointly with this table;
 - Noted the wind direction.
- (2) Look in this Table (the green-bordered pages) for the ID Number and Name of the Material involved in the incident. Some ID Numbers have more than one shipping name listed— look for the specific name of the material. (If the shipping name is not known and the Table lists more than one name for the same ID Number, use the entry with the largest protective action distances.)
- (3) Determine if the incident involves a SMALL or LARGE spill and if DAY or NIGHT. Generally, a SMALL SPILL is one which involves a single, small package (e.g., a drum containing up to approximately 200 liters), a small cylinder, or a small leak from a large package. A LARGE SPILL is one which involves a spill from a large package, or multiple spills from many small packages. DAY is any time after sunrise and before sunset. NIGHT is any time between sunset and sunrise.
- (4) Look up the initial ISOLATION distance. Direct all persons to move, in a crosswind direction, away from the spill to the distance specified—in meters and feet.



(5) Look up the initial PROTECTIVE ACTION DISTANCE shown in the Table. For a given dangerous goods, spill size, and whether day or night, the Table gives the downwind distance— in kilometers and miles— for which protective actions should be considered. For practical purposes, the Protective Action Zone (i.e., the area in which people are at risk of harmful exposure) is a square, whose length and width are the same as the downwind distance shown in the Table.

(6) Initiate Protective Actions to the extent possible, beginning with those closest to the spill site and working away from the site in the downwind direction. When a waterreactive TIH producing material is spilled into a river or stream, the source of the toxic gas may move with the current or stretch from the spill point downstream for a substantial distance.

The shape of the area in which protective actions should be taken (the Protective Action Zone) is shown in this figure. The spill is located at the center of the small circle. The larger circle represents the INITIAL ISOLATION zone around the spill.



NOTE: See "Introduction To The Table Of Initial Isolation And Protective Action Distances" for factors which may increase or decrease Protective Action Distances.

Call the emergency response telephone number listed on the shipping paper, or the appropriate response agency as soon as possible for additional information on the material, safety precautions, and mitigation procedures.

	TABLE OF	INITIA	L ISOL	ATION	I AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
		(From		SMALL S		a large nack	LARGE SPILLS (From a large package or from many small packages)						
ID No.	NAME OF MATERIAL		rst .ATE rections (Feet)	rage or small leak from a large package) Then PROTECT persons Downwind during- DAY Kilometers (Miles) Kilometers (Miles)				Fii ISOL in all Dii Meters	st ATE		Th PRO rsons Dow	nen TECT Inwind during- NIGHT Kilometers (Miles	
1005 1005 1005 1005 1005	Ammonia, anhydrous Ammonia, anhydrous, liquefied Ammonia, solution, with more than 50% Ammonia Anhydrous ammonia Anhydrous ammonia, liquefied	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
1008 1008	Boron trifluoride Boron trifluoride, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	215 m	(700 ft)	1.6 km	(1.0 mi)	5.1 km	(3.2 mi)
1016 1016	Carbon monoxide Carbon monoxide, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	125 m	(400 ft)	0.6 km	(0.4 mi)	1.8 km	(1.1 mi)
1017	Chlorine	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	275 m	(900 ft)	2.7 km	(1.7 mi)	6.8 km	(4.2 mi)
1023 1023	Coal gas Coal gas, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
1026 1026 1026	Cyanogen Cyanogen, liquefied Cyanogen gas	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
1040 1040	Ethylene oxide Ethylene oxide with Nitrogen	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.8 km	(1.1 mi)
1045 1045	Fluorine Fluorine,compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	185 m	(600 ft)	1.4 km	(0.9 mi)	4.0 km	(2.5 mi)
1048	Hydrogen bromide, anhydrous	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	3.4 km	(2.1 mi)
1050	Hydrogen chloride, anhydrous	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1051	AC (when used as a weapon)	60 m	(200 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	460 m	(1500 ft)	1.6 km	(1.0 mi)	3.9 km	(2.4 mi)

1051 1051 1051 1051	Hydrocyanic acid, aqueous solutions, with more than 20% Hydrogen cyanide Hydrocyanic acid, liquefied Hydrogen cyanide, anhydrous, stabilized Hydrogen cyanide, stabilized	60 m	(200 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	400 m	(1300 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)
1052	Hydrogen fluoride, anhydrous	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)
1053 1053 1053 1053	Hydrogen sulfide Hydrogen sulfide, liquefied Hydrogen sulphide Hydrogen sulphide, liquefied	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	215 m	(700 ft)	1.4 km	(0.9 mi)	4.3 km	(2.7 mi)
1062	Methyl bromide	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.5 km	(0.3 mi)	1.4 km	(0.9 mi)
1064	Methyl mercaptan	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.7 km	(1.7 mi)
1067 1067 1067 1067 1067 1067	Dinitrogen tetroxide Dinitrogen tetroxide, liquefied Nitrogen dioxide Nitrogen dioxide, liquefied Nitrogen peroxide, liquid Nitrogen tetroxide, liquid	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	305 m	(1000 ft)	1.3 km	(0.8 mi)	3.9 km	(2.4 mi)
1069	Nitrosylchloride	30 m	(100 ft)	0.3 km	(0.2 mi)	1.4 km	(0.9 mi)	365 m	(1200 ft)	3.5 km	(2.2 mi)	9.8 km	(6.1 mi)
1071 1071	Oil gas Oil gas, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
1076	CG (when used as a weapon)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.2 km	(2.0 mi)	765 m	(2500 ft)	7.2 km	(4.5 mi)	11.0+ km	(7.0+ mi)
1076	Diphosgene	60 m	(200 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	1.9 km	(1.2 mi)
1076	DP (when used as a weapon)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.0 km	(0.6 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.5 km	(2.8 mi)
1076	Phosgene	95 m	(300 ft)	0.8 km	(0.5 mi)	2.7 km	(1.7 mi)	765 m	(2500 ft)	6.6 km	(4.1 mi)	11.0 km	(6.9 mi)
1079 1079 1079 1079	Sulfur dioxide Sulfur dioxide, liquefied Sulphur dioxide Sulphur dioxide, liquefied	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(fl 000)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)

	TABLE OF	INITIA	r 1201			PROT	ECTIVI	E ACII	ON DIS	SIANC	E5			
		-		SMALL S			LARGE SPILLS							
		(From a small package or small leak from a large package) First Then						(From a large package or from many small packages) First Then						
ın		ISOL in all Di	ATE.	pers	PRO		ng-	ISOLATE in all Directions		PROTECT persons Downwind during-				
ID No.	NAME OF MATERIAL	Meters	(Feet)	DA Kilometer		NIG Kilometer		Meters	(Feet)	D.A. Kilometer		NIG Kilometer		
1082 1082	Trifluorochloroethylene Trifluorochloroethylene, inhibited	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	
1092	Acrolein, inhibited	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	400 m	(1300 ft)	3.9 km	(2.4 mi)	7.9 km	(4.9 mi)	
1098	Allylalcohol	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)	
1135	Ethylene chlorohydrin	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.3 km	(0.8 mi)	
1143 1143	Crotonaldehyde, inhibited Crotonaldehyde, stabilized	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	
1162	Dimethyldichlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)	
1163 1163	1,1-Dimethylhydrazine Dimethylhydrazine, unsymmetrical	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)	
1182	Ethyl chloroformate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.4 km	(0.9 mi)	
1185	Ethyleneimine, inhibited	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	155 m	(500 ft)	1.4 km	(0.9 mi)	3.5 km	(2.2 mi)	
1238	Methyl chloroformate	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.4 km	(2.1 mi)	
1239	Methyl chloromethyl ether	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)	
1242	Methyldichlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	
1244	Methylhydrazine	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)	
1250	Methyltrichlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)	
1251 1251	Methyl vinyl ketone Methyl vinyl ketone, stabilized	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)	

TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCE

1259	Nickel carbonyl	60 m	(200 ft)	0.6 km	(0.4 mi)	2.1 km	(1.3 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	4.3 km	(2.7 mi)
1295	Trichlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.3 km	(0.8 mi)	3.2 km	(2.0 mi)
1298	Trimethylchlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.3 km	(1.4 mi)
1340 1340	Phosphorus pentasulfide, free from yellow or white Phosphorus (when spilled in water) Phosphorus pentasulphide, free from yellow or white Phosphorus (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.2 km	(2.0 mi)
1360	Calcium phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.3 km	(3.3 mi)
1380	Pentaborane	155 m	(500 ft)	1.3 km	(0.8 mi)	3.7 km	(2.3 mi)	765 m	(2500 ft)	6.6 km	(4.1 mi)	10.6 km	(6.6 mi)
1384 1384 1384	Sodium dithionite (when spilled in water) Sodium hydrosulfite (when spilled in water) Sodium hydrosulphite (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)
1397	Aluminum phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	245 m	(800 ft)	2.4 km	(1.5 mi)	6.4 km	(4.0 mi)
1412	Lithium amide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.9 km	(1.2 mi)
1419	Magnesium aluminum phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.5 km	(3.4 mi)
1432	Sodium phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	155 m	(500 ft)	1.4 km	(0.9 mi)	4.0 km	(2.5 mi)
1433	Stannic phosphides (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.7 km	(2.9 mi)
1510	Tetranitromethane	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.3 km	(0.8 mi)

	TABLE OF INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES													
			n a small pac	SMALL S kage or smal	II leak from a		LARGE SPILLS (From a large package or from many small packages)							
ID No.	NAME OF MATERIAL	Fii ISOL in all Dii Meters		DA	١Y		HT	Fir ISOL in all Dir Meters	ATE	pe DA Kilometer	PRO rsons Dow	nen TECT mwind durir NIG Kilometer	HT	
1541	Acetone cyanohydrin, stabilized (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.1 km	(1.3 mi)	
1556	MD (when used as a weapon)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	125 m	(400 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)	
1556	Methyldichloroarsine	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.0 km	(0.6 mi)	
1556	PD (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	
1560 1560	Arsenic chloride Arsenic trichloride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.4 km	(0.9 mi)	
1569	Bromoacetone	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.9 km	(1.2 mi)	
1580	Chloropicrin	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	1.8 km	(1.1 mi)	4.0 km	(2.5 mi)	
1581 1581	Chloropicrin and Methyl bromide mixture Methyl bromide and Chloropicrin mixtures	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	125 m	(400 ft)	1.3 km	(0.8 mi)	3.1 km	(1.9 mi)	
1581	Methyl bromide and more than 2% Chloropicrin mixture, liquid	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)	
1582 1582	Chloropicrin and Methyl chloride mixture Methyl chloride and Chloropicrin mixtures	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	3.2 km	(2.0 mi)	
1583	Chloropicrin, absorbed	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	1.8 km	(1.1 mi)	4.0 km	(2.5 mi)	
1583	Chloropicrin mixture, n.o.s.	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)	
1589	CK (when used as a weapon)	60 m	(200 ft)	0.6 km	(0.4 mi)	2.4 km	(1.5 mi)	400 m	(1300 ft)	4.0 km	(2.5 mi)	8.0 km	(5.0 mi)	

1589	Cyanogen chloride, inhibited	60 m	(200 ft)	0.5 km	(0.3 mi)	1.8 km	(1.1 mi)	275 m	(900 ft)	2.7 km	(1.7 mi)	6.8 km	(4.2 mi)
1595 1595	Dimethyl sulfate Dimethyl sulphate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)
1605	Ethylene dibromide	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
1612	Hexaethyl tetraphosphate and compressed gas mixture	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.4 km	(0.9 mi)
1613	Hydrocyanic acid, aqueous solution, with not more than 20% Hydrogen cyanide (when 'Inhalation Hazard" is on a package or shipping paper) Hydrogen cyanide, aqueous solution, with not more than 20% Hydrogen cyanide (when 'Inhalation Hazard" is on a package or shipping paper)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	125 m	(400 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)
1614 1614	Hydrogen cyanide, anhydrous, stabilized (absorbed) Hydrogen cyanide, stabilized (absorbed)	60 m	(200 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	400 m	(1300 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)
1647 1647	Ethylene dibromide and Methyl bromide mixture, liquid Methyl bromide and Ethylene dibromide mixture, liquid	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
1660 1660	Nitric oxide Nitric oxide, compressed	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)
1670	Perchloromethyl mercaptan	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
1680	Potassium cyanide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.6 km	(1.6 mi)
1689	Sodium cyanide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	2.6 km	(1.6 mi)
1694	CA (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	4.2 km	(2.6 mi)

	TABLE OF	INITIA				FRUI	ECTIVI	E ACTI	ON DIS				
		/=		SMALL S			,				SPILLS		
		(From		kage or smal		a large pack en	age)	(F		package or fi		nall packages nen	s)
ın		ISOL in all Di	ATE	pers	PRO		ng-	ISOL in all Di	ATE	pe	PRO	TECT Inwind durir	ng-
ID No.	NAME OF MATERIAL	Meters	(Feet)	DA Kilometer		NIG Kilometer		Meters	(Feet)	DA Kilometer		NIG Kilometer	
1695	Chloroacetone, stabilized	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.3 km	(0.8 mi)
1697	CN (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	3.2 km	(2.0 mi)
1698 1698	Adamsite (when used as a weapon) DM (when used as a weapon)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(600 ft)	2.3 km	(1.4 mi)	5.1 km	(3.2 mi)
1699	DA (when used as a weapon)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(600 ft)	2.3 km	(1.4 mi)	5.1 km	(3.2 mi)
1703 1703	Tetraethyl dithiopyrophosphate and gases, in solution Tetraethyl dithiopyrophosphate and gases, mixtures	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	365 m	(1200 ft)	3.7 km	(2.3 mi)	6.9 km	(4.3 mi)
1703	Tetraethyl dithiopyrophosphate and gases, mixtures, or in solution (LCS0 more than 200 ppm but not more than 5000 ppm)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	125 m	(400 ft)	0.8 km	(0.5 mi)	2.9 km	(1.8 mi)
1703	Tetraethyl dithiopyrophosphate and gases, mixtures, or in solution (LC50 not more than 200 ppm)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	365 m	(1200 ft)	3.7 km	(2.3 mi)	6.9 km	(4.3 mi)
1705	Tetraethyl pyrophosphate and compressed gas mixtures	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	400 m	(1300 ft)	4.0 km	(2.5 mi)	7.2 km	(4.5 mi)
1705	Tetraethyl pyrophosphate and compressed gas mixtures (LC50 more than 200 ppm but not more than 5000 ppm)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	125 m	(400 ft)	0.8 km	(0.5 mi)	2.9 km	(1.8 mi)
1705	Tetraethyl pyrophosphate and compressed gas mixtures (LC50 not more than 200 ppm)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	400 m	(1300 ft)	4.0 km	(2.5 mi)	7.2 km	(4.5 mi)

Bromine Bromine, solution Bromine pentafluoride (when spilled on land) Bromine pentafluoride (when spilled in water) Bromine trifluoride (when spilled on land)	60 m 60 m 30 m 30 m	(200 ft) (200 ft) (100 ft)	0.3 km 0.5 km 0.2 km 0.2 km	(0.2 mi) (0.3 mi) (0.1 mi) (0.1 mi)	1.1 km 1.3 km 0.8 km 0.3 km	(0.7 mi) (0.8 mi) (0.5 mi) (0.2 mi)	245 m 215 m 60 m	(600 ft) (800 ft) (700 ft) (200 ft)	1.6 km 2.3 km 1.9 km 0.3 km	(1.0 mi) (1.4 mi) (1.2 mi) (0.2 mi)	4.0 km 5.0 km 4.2 km 0.8 km	(2.5 mi) (3.1 mi) (2.6 mi) (0.5 mi)
Bromine, solution Bromine pentafluoride (when spilled on land) Bromine pentafluoride	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
Bromine, solution Bromine pentafluoride		` ,		` ′		, ,		. ,				
	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.0 km	(2.5 mi)
Boron trichloride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.6 km	(1.0 mi)
Benzoylchloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)
Antimony pentafluoride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.7 km	(2.3 mi)
Amyltrichlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)
Aluminum chloride, anhydrous (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)
Aluminum bromide, anhydrous (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	2.7 km	(1.7 mi)
Allyltrichlorosilane, stabilized (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.0 km	(0.6 mi)	2.9 km	(1.8 mi)
Allyl chlorocarbonate Allyl chloroformate	155 m	(500 ft)	1.3 km	(0.8 mi)	2.7 km	(1.7 mi)	610 m	(2000 ft)	6.1 km	(3.8 mi)	10.8 km	(6.7 mi)
Acetyl chloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	2.7 km	(1.7 mi)
Acetyl bromide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.3 km	(1.4 mi)
Zinc phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.1 km	(3.2 mi)
	(when spilled in water) Acetyl bromide (when spilled in water) Acetyl chloride (when spilled in water) Allyl chlorocarbonate Allyl chloroformate Allyltrichlorosilane, stabilized (when spilled in water) Aluminum bromide, anhydrous (when spilled in water) Aluminum chloride, anhydrous (when spilled in water) Amyltrichlorosilane (when spilled in water) Antimony pentafluoride (when spilled in water) Benzoyl chloride (when spilled in water)	(when spilled in water) Acetyl bromide (when spilled in water) 30 m Acetylchloride (when spilled in water) 30 m Allyl chlorocarbonate Allylchloroformate 155 m Allyltrichlorosilane, stabilized (when spilled in water) 30 m Aluminum bromide, anhydrous (when spilled in water) 30 m Aluminum chloride, anhydrous (when spilled in water) 30 m Amyltrichlorosilane (when spilled in water) 30 m Antimony pentafluoride (when spilled in water) 30 m Benzoylchloride (when spilled in water) 30 m	(when spilled in water) Acetyl bromide (when spilled in water) 30 m (100 ft) Acetylchloride (when spilled in water) 30 m (100 ft) Allyl chlorocarbonate Allyl chloroformate 155 m (500 ft) Allyltrichlorosilane, stabilized (when spilled in water) 30 m (100 ft) Aluminum bromide, anhydrous (when spilled in water) 30 m (100 ft) Aluminum chloride, anhydrous (when spilled in water) 30 m (100 ft) Antimony pentafluoride (when spilled in water) 30 m (100 ft) Benzoylchloride (when spilled in water) 30 m (100 ft)	(when spilled in water) Acetyl bromide (when spilled in water) 30 m (100 ft) 0.2 km Acetylchloride (when spilled in water) 30 m (100 ft) 0.2 km Allyl chlorocarbonate Allyl chloroformate 155 m (500 ft) 1.3 km Allyltrichlorosilane, stabilized (when spilled in water) 30 m (100 ft) 0.2 km Aluminum bromide, anhydrous (when spilled in water) 30 m (100 ft) 0.2 km Aluminum chloride, anhydrous (when spilled in water) 30 m (100 ft) 0.2 km Amyltrichlorosilane (when spilled in water) 30 m (100 ft) 0.2 km Antimony pentafluoride (when spilled in water) 30 m (100 ft) 0.2 km 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	TABLE OF	INITIA	L ISOL	ATION	I AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
		(Fron		SMALL S kage or smal	II leak from a		age)			LARGE package or fr	om many sn	nall packages	s)
ID No.	NAME OF MATERIAL	ISOL in all Di	rst _ATE rections	DA	١Y	TECT nwind durin NIG	HT	Fi ISOL in all Di	ATE rections	DA	PRO rsons Dow Y	nen TECT nwind durir NIG	HT
		Meters	(Feet)			Kilometer		Meters	(Feet)	Kilometer	` '	Kilometer	
1746	Bromine trifluoride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	2.1 km	(1.3 mi)	5.5 km	(3.4 mi)
1747	Butyltrichlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.8 km	(1.1 mi)
1749	Chlorine trifluoride	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
1752	Chloroacetyl chloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.6 km	(1.0 mi)
1752	Chloroacetyl chloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)
1754	Chlorosulfonic acid (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)
1754	Chlorosulfonic acid (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.4 km	(0.9 mi)
1754 1754	Chlorosulfonic acid and Sulfur trioxide mixture (when spilled on land) Chlorosulfonic acid and Sulfur trioxide mixture (when spilled in water)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1754	Chlorosulphonic acid (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)
1754	Chlorosulphonic acid (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.4 km	(0.9 mi)

1754 1754	Chlorosulphonic acid and Sulphur trioxide mixture (when spilled on land) Chlorosulphonic acid and Sulphur trioxide mixture	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1754	(when spilled in water) Sulfur trioxide and Chlorosulfonic												
1754	acid mixture (when spilled on land) Sulfur trioxide and Chlorosulfonic												
1754	acid mixture (when spilled in water) Sulphur trioxide and Chlorosulphonic acid mixture												
1754	(when spilled on land) Sulphur trioxide and Chlorosulphonic acid mixture (when spilled in water)												
1758	Chromium oxychloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)
1777 1777	Fluorosulfonicacid (when spilled in water) Fluorosulphonicacid (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.4 km	(0.9 mi)
1801	Octyltrichlorosilane (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.4 km	(1.5 mi)
1806	Phosphorus pentachloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.0 km	(0.6 mi)	2.9 km	(1.8 mi)
1809	Phosphorus trichloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)
1809	Phosphorus trichloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.6 km	(1.6 mi)
1810	Phosphorus oxychloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.8 km	(1.1 mi)
1810	Phosphorus oxychloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	2.6 km	(1.6 mi)

	TABLE OF	· INITIA	IL ISOL	_A I ION	I AND	PROT	EC HVI	E ACII	ON DIS	STANC	ES		
				SMALL S	SPILLS					LARGE	SPILLS		
				kage or smal			age)			package or f		nall packages	s)
		Fii ISOL in all Di	.ATE	pers	Th • PRO sons Dow		na-	Fir ISOL in all Dir	ATE.	ne	PRO	nen TECT <i>I</i> nwind durir	na-
ID No.	NAME OF MATERIAL	Meters	(Feet)	DA Kilometer	lΥ	NIG Kilometer	HT	Meters	(Feet)	D.A. Kilometer	lΥ	NIG Kilometer	HT
1818	Silicon tetrachloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)
1828	Sulfur chlorides (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.0 km	(0.6 mi)
1828	Sulfur chlorides (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	2.3 km	(1.4 mi)
1828	Sulphur chlorides (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.0 km	(0.6 mi)
1828	Sulphur chlorides (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	2.3 km	(1.4 mi)
1829 1829 1829 1829 1829 1829 1829 1829	Sulfur trioxide Sulfur trioxide, inhibited Sulfur trioxide, stabilized Sulfur trioxide, uninhibited Sulphur trioxide Sulphur trioxide, inhibited Sulphur trioxide, stabilized Sulphur trioxide, uninhibited	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1831 1831 1831 1831 1831 1831 1831	Oleum Oleum, with not less than 30% free Sulfur trioxide Oleum, with not less than 30% free Sulphur trioxide Sulfuric acid, fuming Sulfuric acid, fuming, with not less than 30% free Sulfur trioxide Sulphuric acid, fuming Sulphuric acid, fuming Sulphuric acid, fuming, with not less than 30% free Sulphur trioxide	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)

1834	Sulfuryl chloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)
1834	Sulfuryl chloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.4 km	(1.5 mi)
1834	Sulphuryl chloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)
1834	Sulphuryl chloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.4 km	(1.5 mi)
1836	Thionylchloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
1836	Thionylchloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	335 m	(1100 ft)	3.2 km	(2.0 mi)	7.1 km	(4.4 mi)
1838	Titanium tetrachloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)
1838	Titanium tetrachloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)
1859 1859	Silicon tetrafluoride Silicon tetrafluoride, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)
1892	ED (when used as a weapon)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	125 m	(400 ft)	1.3 km	(0.8 mi)	2.6 km	(1.6 mi)
1892	Ethyldichloroarsine	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.0 km	(0.6 mi)
1898	Acetyliodide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.6 km	(1.0 mi)
1911 1911	Diborane Diborane, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	2.7 km	(1.7 mi)
1923 1923 1923	Calcium dithionite (when spilled in water) Calcium hydrosulfite (when spilled in water) Calcium hydrosulphite (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)
			ane dietan										

	TABLE OF	· INITIA	L ISOL	_A I ION	AND	PROT	EC HVI	E ACII	ON DIS	STANC	ES		
				SMALL S						LARGE			
				kage or smal			age)			package or fr		mall packages	5)
ID		Fir ISOL in all Dir	ATE.			TECT nwind durir			rst . ATE rections		PRO Sons Dov	nen TECT ynwind durir	
No.	NAME OF MATERIAL	Meters	(Feet)	DA Kilometer		NIG Kilometer		Meters	(Feet)	DA Kilometer		NIG Kilometer	
1939 1939	Phosphorus oxybromide (when spilled in water) Phosphorus oxybromide, solid (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.6 km	(0.4 mi)	1.9 km	(1.2 mi)
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1953	Compressed gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1953	Compressed gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)

1953 1953	Compressed gas, poisonous, flammable, n.o.s. Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1953	Compressed gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1953 1953	Compressed gas, toxic, flammable, n.o.s. Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1953	Compressed gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1953 1953	Liquefied gas, flammable, poisonous, n.o.s. Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)

		(Fron		SMALL S kage or smal	I leak from		age)	(F	rom a large į	LARGE backage or from	om many sr	mall packages	s)
ID		Fi ISOL in all Di		per:						per DA	PRO	nen TECT /nwind durir NIG	
No.	NAME OF MATERIAL	Meters	(Feet)	Kilometer	s (Miles)	Kilomete	rs (Miles)	Meters	(Feet)	Kilometer	s (Miles)	Kilomete	rs (Miles)
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1953	Liquefied gas, flammable, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1953 1953	Liquefied gas, flammable, toxic, n.o.s. Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
1953	Liquefied gas, flammable, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1953	Poisonous gas, flammable, n.o.s.	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
1953	Poisonous liquid, flammable, n.o.s.	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)
1955 1955	Compressed gas, poisonous, n.o.s. Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)

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1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
1955	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
1955 1955	Liquefied gas, toxic, n.o.s. Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
1955	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
1955 1955	Liquefied gas, poisonous, n.o.s. Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
1955	Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
1955 1955	Compressed gas, toxic, n.o.s. Compressed gas, toxic, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
1955	Compressed gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)

	TABLE OF	INITIA	L ISOL	ATION	AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
		15		SMALL S						LARGE			
ID No.	NAME OF MATERIAL	(From Fin ISOL in all Din Meters	st .ATE	DA	The PROT Sons Down	en	ng- :HT	(F Fir ISOL in all Dir Meters	rst .ATE		Th PRO rsons Dow	nall packages nen TECT /nwind durir NIG Kilometel	ng- i HT
1955	Methyl bromide and nonflammable, nonliquefied compressed gas mixture	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.5 km	(0.3 mi)	1.4 km	(0.9 mi)
1955 1955 1955	Organic phosphate compound mixed with compressed gas Organic phosphate mixed with compressed gas Organic phosphorus compound mixed with compressed gas	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	400 m	(1300 ft)	4.0 km	(2.5 mi)	7.2 km	(4.5 mi)
1967 1967	Insecticide gas, poisonous, n.o.s. Insecticide gas, toxic, n.o.s.	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	400 m	(1300 ft)	4.0 km	(2.5 mi)	7.2 km	(4.5 mi)
1967	Parathion and compressed gas mixture	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	3.2 km	(2.0 mi)
1975 1975 1975 1975 1975 1975	Dinitrogen tetroxide and Nitric oxide mixture Nitric oxide and Dinitrogen tetroxide mixture Nitric oxide and Nitrogen dioxide mixture Nitric oxide and Nitrogen tetroxide mixture Nitrogen dioxide and Nitric oxide mixture Nitrogen dioxide and Nitric oxide mixture Nitrogen tetroxide and Nitric oxide mixture	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)
1994	Iron pentacarbonyl	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.4 km	(1.5 mi)
2004	Magnesiumdiamide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)

2011	Magnesium phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	6.0 km	(3.7 mi)
2012	Potassium phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	155 m	(500 ft)	1.3 km	(0.8 mi)	4.0 km	(2.5 mi)
2013	Strontium phosphide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.7 km	(2.3 mi)
2032 2032	Nitric acid, fuming Nitric acid, red fuming	95 m	(300 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)	400 m	(1300 ft)	1.3 km	(0.8 mi)	3.5 km	(2.2 mi)
2186	Hydrogen chloride, refrigerated liquid	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
2188	Arsine	60 m	(200 ft)	0.5 km	(0.3 mi)	2.1 km	(1.3 mi)	335 m	(1100 ft)	3.2 km	(2.0 mi)	6.6 km	(4.1 mi)
2188	SA (when used as a weapon)	60 m	(200 ft)	0.8 km	(0.5 mi)	2.4 km	(1.5 mi)	400 m	(1300 ft)	4.0 km	(2.5 mi)	8.0 km	(5.0 mi)
2189	Dichlorosilane	30 m	(100 ft)	0.3 km	(0.2 mi)	1.0 km	(0.6 mi)	245 m	(800 ft)	2.4 km	(1.5 mi)	6.3 km	(3.9 mi)
2190 2190	Oxygen difluoride Oxygen difluoride, compressed	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
2191 2191	Sulfuryl fluoride Sulphuryl fluoride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.3 km	(1.4 mi)
2192	Germane	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	275 m	(900 ft)	2.7 km	(1.7 mi)	6.6 km	(4.1 mi)
2194	Selenium hexafluoride	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	6.0 km	(3.7 mi)
2195	Tellurium hexafluoride	60 m	(200 ft)	0.6 km	(0.4 mi)	2.3 km	(1.4 mi)	365 m	(1200 ft)	3.5 km	(2.2 mi)	7.6 km	(4.7 mi)
2196	Tungsten hexafluoride	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.7 km	(2.3 mi)
2197	Hydrogen iodide, anhydrous	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.6 km	(1.6 mi)
2198 2198	Phosphorus pentafluoride Phosphorus pentafluoride, compressed	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	3.5 km	(2.2 mi)
2199	Phosphine	95 m	(300 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	490 m	(1600 ft)	1.8 km	(1.1 mi)	5.5 km	(3.4 mi)
2202	Hydrogen selenide, anhydrous	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
2204 2204	Carbonyl sulfide Carbonyl sulphide	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	215 m	(700 ft)	1.9 km	(1.2 mi)	5.6 km	(3.5 mi)

		(From		SMALL S kage or smal	II leak from a		age)			LARGE backage or fr	om many sr	nall packages	s)
ID		Fir ISOL in all Dir	ATE	per:				Fir ISOL in all Dir	ATE.	pei DA	PRO	nen TECT <u>Inwind durir</u> NIG	
No.	NAME OF MATERIAL	Meters	(Feet)			Kilometer		Meters	(Feet)	Kilometer		Kilomete	
2232 2232	Chloroacetaldehyde 2-Chloroethanal	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.6 km	(1.0 mi)
2334	Allylamine	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	2.4 km	(1.5 mi)
2337	Phenyl mercaptan	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)
2382 2382	1,2-Dimethylhydrazine Dimethylhydrazine, symmetrical	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
2407	Isopropyl chloroformate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.9 km	(1.2 mi)
2417 2417	Carbonyl fluoride Carbonyl fluoride, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	1.1 km	(0.7 mi)	125 m	(400 ft)	1.0 km	(0.6 mi)	3.1 km	(1.9 mi)
2418 2418	Sulfur tetrafluoride Sulphur tetrafluoride	60 m	(200 ft)	0.5 km	(0.3 mi)	1.9 km	(1.2 mi)	305 m	(1000 ft)	2.9 km	(1.8 mi)	6.9 km	(4.3 mi)
2420	Hexafluoroacetone	30 m	(100 ft)	0.3 km	(0.2 mi)	1.4 km	(0.9 mi)	365 m	(1200 ft)	3.7 km	(2.3 mi)	8.5 km	(5.3 mi)
2421	Nitrogen trioxide	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	155 m	(500 ft)	0.6 km	(0.4 mi)	2.1 km	(1.3 mi)
2438	Trimethylacetylchloride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)
2442	Trichloroacetylchloride (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.4 km	(0.9 mi)
2442	Trichloroacetylchloride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)
2474	Thiophosgene	60 m	(200 ft)	0.6 km	(0.4 mi)	1.8 km	(1.1 mi)	275 m	(900 ft)	2.6 km	(1.6 mi)	5.0 km	(3.1 mi)
2477	Methylisothiocyanate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
2480	Methylisocyanate	95 m	(300 ft)	0.8 km	(0.5 mi)	2.7 km	(1.7 mi)	490 m	(1600 ft)	4.8 km	(3.0 mi)	9.8 km	(6.1 mi)
2481	Ethylisocyanate	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)

2482	n-Propylisocyanate	125 m	(400 ft)	1.1 km	(0.7 mi)	2.4 km	(1.5 mi)	765 m	(2500 ft)	6.3 km	(3.9 mi)	10.6 km	(6.6 mi)
2483	Isopropylisocyanate	185 m	(600 ft)	1.8 km	(0.7 mi)	3.9 km	(2.4 mi)	430 m	(1400 ft)	4.2 km	(2.6 mi)	7.4 km	(4.6 mi)
	1 13 3		, ,		` ′		, ,		, ,		, ,		
2484	tert-Butyl isocyanate	125 m	(400 ft)	1.0 km	(0.6 mi)	2.4 km	(1.5 mi)	550 m	(1800 ft)	5.3 km	(3.3 mi)	10.3 km	(6.4 mi)
2485	n-Butyl isocyanate	95 m	(300 ft)	0.8 km	(0.5 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.1 km	(1.9 mi)	6.3 km	(3.9 mi)
2486	Isobutylisocyanate	60 m	(200 ft)	0.6 km	(0.4 mi)	1.4 km	(0.9 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.2 km	(2.0 mi)
2487	Phenylisocyanate	30 m	(100 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	155 m	(500 ft)	1.3 km	(0.8 mi)	2.6 km	(1.6 mi)
2488	Cyclohexylisocyanate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.4 km	(0.9 mi)
2495	lodine pentafluoride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	3.1 km	(1.9 mi)
2521	Diketene, inhibited	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
2534	Methylchlorosilane	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
2548	Chlorine pentafluoride	30 m	(100 ft)	0.3 km	(0.2 mi)	1.0 km	(0.6 mi)	365 m	(1200 ft)	3.7 km	(2.3 mi)	8.7 km	(5.4 mi)
2576	Phosphorus oxybromide, molten (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.6 km	(0.4 mi)	1.9 km	(1.2 mi)
2600 2600 2600 2600	Carbon monoxide and Hydrogen mixture Carbon monoxide and Hydrogen mixture, compressed Hydrogen and Carbon monoxide mixture Hydrogen and Carbon monoxide mixture, compressed	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	125 m	(400 ft)	0.6 km	(0.4 mi)	1.8 km	(1.1 mi)
2605	Methoxymethylisocyanate	60 m	(200 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)	125 m	(400 ft)	1.3 km	(0.8 mi)	2.6 km	(1.6 mi)
2606	Methyl orthosilicate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)
2644	Methyliodide	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.0 km	(0.6 mi)
2646	Hexachlorocyclopentadiene	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)
2668	Chloroacetonitrile	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
2676	Stibine	30 m	(100 ft)	0.3 km	(0.2 mi)	1.6 km	(1.0 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	6.0 km	(3.7 mi)

	TABLE OF	INITIA	L ISOL	ATION	AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
		/-		SMALL S			,			LARGE			,
ID No.	NAME OF MATERIAL	Fi ISOL in all Di	n a small pactorst ATE rections	pers DA	The PROT sons Dowr	en ECT nwind durir NIG	ng- HT	Fi ISOL in all Di	rst .ATE rections	pe DA	Th PRO rsons Dow Y	nall packages nen TECT nwind durin NIG	ng- HT
NO.	NAIVIE OF IVIATERIAL	Meters	(Feet)	Kilometer	s (Miles)	Kilometer	s (Miles)	Meters	(Feet)	Kilometer	s (Miles)	Kilometer	s (Miles)
2691	Phosphorus pentabromide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.4 km	(1.5 mi)
2692	Boron tribromide (when spilled on land)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.4 km	(0.9 mi)
2692	Boron tribromide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)
2740	n-Propyl chloroformate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.4 km	(0.9 mi)
2742	sec-Butyl chloroformate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)
2742	Isobutyl chloroformate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)
2743	n-Butyl chloroformate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
2806	Lithium nitride (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	95 m	(300 ft)	0.8 km	(0.5 mi)	2.1 km	(1.3 mi)
2810 2810 2810 2810 2810	Bis-(2-chloroethyl) ethylamine Bis-(2-chloroethyl) methylamine Bis-(2-chloroethyl) sulfide Bis-(2-chloroethyl) sulphide	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)
2810 2810	Buzz (when used as a weapon) BZ (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.9 km	(1.2 mi)
2810	CS (when used as a weapon)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	245 m	(800 ft)	2.6 km	(1.6 mi)	5.6 km	(3.5 mi)
2810	DC (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.3 km	(3.3 mi)
2810	O-Ethyl S-(2- diisopropylaminoethyl) methylphosphonothiolate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)

2810	Ethyl N,N- dimethylphosphoramidocyanidate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.0 km	(0.6 mi)
2810	GA (when used as a weapon)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.1 km	(1.9 mi)
2810	GB (when used as a weapon)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
2810	GD (when used as a weapon)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.8 km	(1.1 mi)	765 m	(2500 ft)	6.8 km	(4.2 mi)	10.5 km	(6.5 mi)
2810	GF (when used as a weapon)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.1 km	(3.2 mi)
2810 2810	H (when used as a weapon) HD (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.1 km	(0.7 mi)
2810	HL (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	1.8 km	(1.1 mi)
2810	HN-1 (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.3 km	(0.8 mi)
2810	HN-2 (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
2810	HN-3 (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)
2810	Isopropyl methylphosphonofluoridate	125 m	(400 ft)	1.3 km	(0.8 mi)	2.3 km	(1.4 mi)	550 m	(1800 ft)	5.3 km	(3.3 mi)	8.7 km	(5.4 mi)
2810 2810	L (Lewisite) (when used as a weapon) Lewisite (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	1.8 km	(1.1 mi)
2810	Mustard (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)
2810	Mustard Lewisite (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	1.8 km	(1.1 mi)
2810	Pinacolyl methylphosphonofluoridate	60 m	(200 ft)	0.5 km	(0.3 mi)	0.8 km	(0.5 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	3.1 km	(1.9 mi)
2810 2810	Poisonous liquid, n.o.s. (when Inhalation Hazard"is on a package or shipping paper) Poisonous liquid, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
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	TABLE OF	INITIA	L ISOL	ATION	AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
				SMALL S						LARGE			
		_		kage or smal			age)			package or fr		nall packages	5)
ID		Fir ISOL in all Dir	ATE	pers	PRO	en FECT nwind durir	ng-	Fii ISOL in all Di		pe	PRO	nen TECT <u>Inwind durir</u>	ng-
No.	NAME OF MATERIAL	Meters	(Feet)	DA Kilometer		NIG Kilometer		Meters	(Feet)	DA Kilometer		NIG Kilometer	
2810	Poisonous liquid, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
2810 2810	Poisonous liquid, organic, n.o.s. (when 1nhalation Hazard"is on a package or shipping paper) Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
2810	Poisonous liquid, organic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.0 km	(2.5 mi)
2810	Sarin (when used as a weapon)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
2810	Soman (when used as a weapon)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.8 km	(1.1 mi)	765 m	(2500 ft)	6.8 km	(4.2 mi)	10.5 km	(6.5 mi)
2810	Tabun (when used as a weapon)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.6 km	(0.4 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.1 km	(1.9 mi)
2810	Thickened GD (when used as a weapon)	95 m	(300 ft)	0.8 km	(0.5 mi)	1.8 km	(1.1 mi)	765 m	(2500 ft)	6.8 km	(4.2 mi)	10.5 km	(6.5 mi)
2810 2810	Toxicliquid, n.o.s. (when 1nhalation Hazard"is on a package or shipping paper) Toxic liquid, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
2810	Toxic liquid, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
2810 2810	Toxic liquid, organic, n.o.s. (when 1nhalation Hazard"is on a package or shipping paper) Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)

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2810	Toxic liquid, organic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.0 km	(2.5 mi)
2810	Tris-(2-chloroethyl) amine	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)
2810	VX (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.0 km	(0.6 mi)
2811	CX (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	3.1 km	(1.9 mi)
2826	Ethyl chlorothioformate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	0.8 km	(0.5 mi)
2845	Ethyl phosphonous dichloride, anhydrous	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	3.4 km	(2.1 mi)
2845	Methyl phosphonous dichloride	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
2901	Bromine chloride	30 m	(100 ft)	0.3 km	(0.2 mi)	1.0 km	(0.6 mi)	155 m	(500 ft)	1.6 km	(1.0 mi)	4.0 km	(2.5 mi)
2927	Ethyl phosphonothioic dichloride, anhydrous	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)
2927	Ethylphosphorodichloridate	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)
2927 2927	Poisonous liquid, corrosive, n.o.s. (when 1nhalation Hazard'is on a package or shipping paper) Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
2927	Poisonous liquid, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	245 m	(800 ft)	1.6 km	(1.0 mi)	5.0 km	(2.5 mi)
2927 2927	Toxic liquid, corrosive, organic, n.o.s. (when 'Inhalation Hazard' is on a package or shipping paper) Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
2927	Toxic liquid, corrosive, organic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	245 m	(800 ft)	1.6 km	(1.0 mi)	5.0 km	(2.5 mi)
2929	Poisonous liquid, flammable, n.o.s. (when 'Inhalation	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)

	TABLE OF	INITIA				PRUI	ECTIVI	EACII	ON DE		_		
		(From		SMALL S kage or small		a large pack	age)	(F	rom a large i	LARGE package or f		mall package:	5)
ID No.	NAME OF MATERIAL	Fi ISOL in all Di	rst .ATE rections	per:	Th PRO sons Dow	en FECT nwind duri NIC	ng- GHT	Fii ISOL in all Di	rst ATE rections	pe	PRO PRO Prsons Dov	nen TECT ynwind durii NIC	ng- GHT
IVO.	-	Meters	(Feet)	Kilometer	s (Miles)	Kilomete	rs (Miles)	Meters	(Feet)	Kilometer	rs (Miles)	Kilomete	rs (Miles)
2929	Hazard"is on a package or shipping paper) Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone A)												
2929	Poisonous liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)
2929 2929	Poisonous liquid, flammable, organic, n.o.s. (when 'Inhalation Hazard" is on a package or shipping paper) Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)
2929	Poisonous liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)
2929 2929	Toxic liquid, flammable, n.o.s. (when 'Inhalation Hazard''is on a package or shipping paper) Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone A)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)
2929	Toxic liquid, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)
2929 2929	Toxic liquid, flammable, organic, n.o.s. (when 'Inhalation Hazard" is on a package or shipping paper) Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone A)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)

2929	Toxic liquid, flammable, organic, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)
2977 2977	Radioactive material, Uranium hexafluoride, fissile (when spilled in water) Uranium hexafluoride, fissile containing more than 1% Uranium-235 (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	3.1 km	(1.9 mi)
2978 2978	Radioactive material, Uranium hexafluoride, non fissile or fissile-excepted (when spilled in water) Uranium hexafluoride, fissile-excepted	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	95 m	(300 ft)	1.0 km	(0.6 mi)	3.1 km	(1.9 mi)
2978 2978	(when spilled in water) Uranium hexafluoride, low specific activity (when spilled in water) Uranium hexafluoride, non-fissile (when spilled in water)												
2985 2985	Chlorosilanes, flammable, corrosive, n.o.s. (when spilled in water) Chlorosilanes, n.o.s. (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)
2986 2986	Chlorosilanes, corrosive, flammable, n.o.s. (when spilled in water) Chlorosilanes, n.o.s. (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)
2987 2987	Chlorosilanes, corrosive, n.o.s. (when spilled in water) Chlorosilanes, n.o.s. (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)
			ne dietan										

	TABLE OF	INITIA	L ISOL	ATION	AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
		(From		SMALL S		a large pack	age)	(F	rom a large i	LARGE		nall packages	3)
ID No.	NAME OF MATERIAL	Fin ISOL in all Din Meters	rst .ATE	pers DA	Th PROT sons Dowi	en	ng- iHT	Fir ISOL in all Dir Meters	rst .ATE		Th PRO ersons Dow	nen TECT Inwind durin NIG Kilometer	ng- HT
2988 2988	Chlorosilanes, n.o.s. (when spilled in water) Chlorosilanes, water-reactive, flammable, corrosive, n.o.s. (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.9 km	(1.8 mi)
3023 3023	2-Methyl-2-hepthanethiol tert-Octyl mercaptan	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
3048	Aluminum phosphide pesticide (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	215 m	(700 ft)	1.9 km	(1.2 mi)	5.3 km	(3.3 mi)
3049 3049 3049 3049	Metal alkyl halides, n.o.s. (when spilled in water) Metal alkyl halides, water-reactive, n.o.s. (when spilled in water) Metal aryl halides, n.o.s. (when spilled in water) Metal aryl halides, water-reactive, n.o.s. (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)
3052	Aluminum alkyl halides (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)
3057	Trifluoroacetyl chloride	30 m	(100 ft)	0.3 km	(0.2 mi)	1.4 km	(0.9 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	8.5 km	(5.3 mi)
3079	Methacrylonitrile, inhibited	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.6 km	(1.0 mi)
3083	Perchloryl fluoride	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.3 km	(1.4 mi)	5.6 km	(3.5 mi)

3122	Poisonous liquid, oxidizing, n.o.s. (when 1nhalation Hazard" is on a package or shipping paper) Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)
3122	Poisonous liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)
3122 3122	Toxicliquid, oxidizing, n.o.s. (when 1nhalation Hazard"is on a package or shipping paper) Toxicliquid, oxidizing, n.o.s. (Inhalation Hazard Zone A)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.4 km	(2.1 mi)	915 m	(3000 ft)	8.7 km	(5.4 mi)	11.0+ km	(7.0+ mi)
3122	Toxic liquid, oxidizing, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	125 m	(400 ft)	1.1 km	(0.7 mi)	2.7 km	(1.7 mi)
3123	Poisonous liquid, water-reactive, n.o.s. (when "Inhalation Hazard" is on a package or shipping paper) Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3123	Poisonous liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (when 'finhalation Hazard'is on a package or shipping paper) Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3123	Poisonous liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)

	TABLE OF	INITIA	L ISOL	ATION	I AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
			a small pac	SMALL S kage or smal	II leak from a		age)			LARGE package or fr	om many sr	mall packages)
ID No.	NAME OF MATERIAL	Fii ISOL in all Dii Meters	ATE	DA	lΥ	ECT nwind durin NIG	HT	Fii ISOL in all Dii Meters		DA	PRO rsons Dow Y	nen TECT ynwind durir NIG	HT
3123	Toxic liquid, water-reactive, n.o.s. (when 'Inhalation Hazard'' is on a package or shipping paper) Toxic liquid, water-reactive,	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km		11.0+ km	
3123	n.o.s. (Inhalation Hazard Zone A) Toxic liquid, water-reactive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
3123 3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (when 'Inhalation Hazard" is on a package or shipping paper) Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone A)	215 m	(700 ft)	1.9 km	(1.2 mi)	4.3 km	(2.7 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3123	Toxic liquid, which in contact with water emits flammable gases, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
3160 3160	Liquefied gas, poisonous, flammable, n.o.s. Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)

3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
3160	Liquefied gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3160 3160	Liquefied gas, toxic, flammable, n.o.s. Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	185 m	(600 ft)	1.8 km	(1.1 mi)	5.6 km	(3.5 mi)	915 m	(3000 ft)	10.8 km	(6.7 mi)	11.0+ km	(7.0+ mi)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	305 m	(1000 ft)	3.1 km	(1.9 mi)	7.7 km	(4.8 mi)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.2 km	(0.1 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	5.6 km	(3.5 mi)
3160	Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3162 3162	Liquefied gas, poisonous, n.o.s. Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3162	Liquefied gas, poisonous, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3162 3162	Liquefied gas, toxic, n.o.s. Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3162	Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)

	TABLE OF	INITIA	L ISOL	LATION	I AND	PROT	ECTIV	E ACTI	ON DIS	STANC	ES		
		<i>(</i> =		SMALL S			,				SPILLS		
ID No.	NAME OF MATERIAL	Fi ISOL	rst	DA	Th PRO sons Dow	en	ng- iHT	Fir ISOL in all Dir Meters	st ATE	pe	Th PRO ersons Dow	nall packages nen TECT nwind durin NIG Kilometer	ng- :HT
3162	Liquefied gas, toxic, n.o.s.	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3246	(Inhalation Hazard Zone D) Methanesulfonyl chloride	95 m	(300 ft)	0.6 km	(0.4 mi)	2.4 km	(1.5 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.1 km	(3.2 mi)
3246 3275 3275	Methanesulphonyl chloride Nitriles, poisonous, flammable, n.o.s. (when 'Inhalation Hazard'is on a package or shipping paper) Nitriles, toxic, flammable, n.o.s. (when 'Inhalation Hazard'is on a package or shipping paper)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.6 km	(1.0 mi)
3276 3276	Nitriles, poisonous, n.o.s. Nitriles, toxic, n.o.s.	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.6 km	(1.0 mi)
3278 3278	Organophosphorus compound, poisonous, n.o.s. (when 'Inhalation Hazard" is on a package or shipping paper) Organophosphorus compound, toxic, n.o.s. (when 'Inhalation Hazard'' is on a package or shipping paper)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
3279	Organophosphorus compound, poisonous, flammable, n.o.s. (when 'Inhalation Hazard''is on a package or shipping paper) Organophosphorus compound, toxic, flammable, n.o.s. (when 'Inhalation Hazard''is on a package or shipping paper)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)

3280	Organoarsenic compound, n.o.s. (when 1nhalation Hazard"is on a package or shipping paper)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	185 m	(600 ft)	1.8 km	(1.1 mi)	4.3 km	(2.7 mi)
3281	Metal carbonyls, n.o.s.	60 m	(200 ft)	0.6 km	(0.4 mi)	2.1 km	(1.3 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	4.3 km	(2.7 mi)
3287 3287	Poisonous liquid, inorganic, n.o.s. (when 'Inhalation Hazard''is on a package or shipping paper) Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.7 km	(2.3 mi)	765 m	(2500 ft)	6.6 km	(4.1 mi)	10.6 km	(6.6 mi)
3287	Poisonous liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
3287 3287	Toxic liquid, inorganic, n.o.s. (when 'Inhalation Hazard"is on a package or shipping paper) Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone A)	155 m	(500 ft)	1.3 km	(0.8 mi)	3.7 km	(2.3 mi)	765 m	(2500 ft)	6.6 km	(4.1 mi)	10.6 km	(6.6 mi)
3287	Toxic liquid, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.3 km	(0.8 mi)	245 m	(800 ft)	2.3 km	(1.4 mi)	5.0 km	(3.1 mi)
3289 3289	Poisonous liquid, corrosive, inorganic, n.o.s. (when 'Inhalation Hazard"is on a package or shipping paper) Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)	95 m	(300 ft)	0.6 km	(0.4 mi)	1.8 km	(1.1 mi)	400 m	(1300 ft)	2.6 km	(1.6 mi)	5.0 km	(3.1 mi)
3289	Poisonous liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.0 km	(2.5 mi)
3289 3289	Toxic liquid, corrosive, inorganic, n.o.s. (when 'Inhalation Hazard"is on a package or shipping paper) Toxic liquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone A)	95 m	(300 ft)	0.6 km	(0.4 mi)	1.8 km	(1.1 mi)	400 m	(1300 ft)	2.6 km	(1.6 mi)	5.0 km	(3.1 mi)

	TABLE OF	INITIA	L ISOL	ATION	AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
			a small pac	SMALL S kage or smal	ll leak from a		age)			LARGE package or fr	om many sr	nall packages	s)
ID No.	NAME OF MATERIAL	Fii ISOL in all Dii Meters		DA	·Υ		HT	Fii ISOL in all Dii Meters		per DA Kilometer:	PRO sons Dow Y	nen TECT /nwind durir NIG Kilometer	HT
3289	Toxicliquid, corrosive, inorganic, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.3 km	(0.2 mi)	1.1 km	(0.7 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)		(2.5 mi)
3294	Hydrogen cyanide, solution in alcohol, with not more than 45% Hydrogen cyanide (when 'Inhalation Hazard" is on a package or shipping paper)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)	215 m	(700 ft)	0.6 km	(0.4 mi)	1.9 km	(1.2 mi)
3300 3300	Carbon dioxide and Ethylene oxide mixture, with more than 87% Ethylene oxide Ethylene oxide and Carbon dioxide mixture, with more than 87% Ethylene oxide	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.8 km	(1.1 mi)
3303 3303	Compressed gas, poisonous, oxidizing,n.o.s. Compressed gas, poisonous, oxidizing,n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3303	Compressed gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)

3303	Compressed gas, toxic, oxidizing, n.o.s. Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3303	Compressed gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3304 3304	Compressed gas, poisonous, corrosive, n.o.s. Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3304	Compressed gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3304 3304	Compressed gas, toxic, corrosive, n.o.s. Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)

	TABLE OF	INITIA	L ISOL	-A I ION	AND	PROT	ECTIVI	E ACII	ON DIS	STANCI	ES		
				SMALL S						LARGE			
		_		kage or smal			age)			package or fro		mall packages	s)
ID		Fir ISOL in all Dir	ATE		PROT Sons Down	nwind durir		Fii ISOL in all Di			PRO sons Dow	nen TECT <u>ynwind durir</u>	
No.	NAME OF MATERIAL	Meters	(Feet)	DA Kilometer		NIG Kilometer		Meters	(Feet)	DA Kilometers		NIG Kilometer	
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3304	Compressed gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3305 3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3305	Compressed gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3305 3305	Compressed gas, toxic, flammable, corrosive, n.o.s. Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)

3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3305	Compressed gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3306 3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3306	Compressed gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3306 3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)

	TABLE OF	INITIA	L ISOL	ATION	AND	PROT	ECTIV	E ACTI	ON DIS	STANC	ES		
		(Fron	n a small pac	SMALL S		a large pack	age)	(F	rom a large	LARGE		mall packages	:)
ID No.	NAME OF MATERIAL	Fi ISOL	rst _ATE rections (Feet)	per:	Th PRO sons Dow	en	ng- GHT	Fir ISOL in all Dir Meters	rst .ATE		Th PRO rsons Dow	nen TECT ynwind durir NIG Kilomete	ng- iHT
3306	Compressed gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3307 3307	Liquefied gas, poisonous, oxidizing, n.o.s. Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3307	Liquefied gas, poisonous, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3307 3307	Liquefied gas, toxic, oxidizing, n.o.s. Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3307	Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)

3308 3308	Liquefied gas, poisonous, corrosive, n.o.s. Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3308	Liquefied gas, poisonous, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3308 3308	Liquefied gas, toxic, corrosive, n.o.s. Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3308	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3308	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3308	Liquefied gas, toxic, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3309 3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)

	TABLE OF	INITIA	L ISOL	ATION	I AND	PROT	ECTIVI	E ACTI	ON DIS	STANC	ES		
		(From		SMALL S kage or smal		a large pack	age)	(F	rom a large	LARGE package or fr		nall packages	s)
ID No.	NAME OF MATERIAL	ISOL	rst .ATE rections (Feet)	DA	·Υ		HT	Fi ISOL in all Di Meters	ATE	pe DA Kilometer	PRO rsons Dow	nen TECT Inwind durin NIG Kilomete	HT
3309	Liquefied gas, poisonous, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3309	Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3310 3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)

3310	Liquefied gas, poisonous, oxidizing, corrosive, n.o.s.	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3310 3310	(Inhalation Hazard Zone D) Liquefied gas, toxic, oxidizing, corrosive, n.o.s. Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	335 m	(1100 ft)	3.4 km	(2.1 mi)	7.7 km	(4.8 mi)
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	185 m	(600 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3310	Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
3318	Ammonia solution, with more than 50% Ammonia	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.1 km	(0.7 mi)
3355 3355	Insecticide gas, poisonous, flammable, n.o.s Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3355	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3355	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3355	Insecticide gas, poisonous, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)

	TABLE OF	INITIA	L ISOL	ATION	AND	PROT	ECTIV	E ACTI	ON DIS	STANC	ES		
				SMALL S						LARGE			
ID No.	NAME OF MATERIAL	Fi ISOL	rst	DA	Th PROT sons Dowi	en	ng- iHT	(F Fir ISOL in all Dir Meters	st .ATE		Th PRO rsons Dow	nall packages nen TECT /nwind durir NIG Kilometer	ng- iHT
3355 3355	Insecticide gas, toxic, flammable, n.o.s Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	430 m	(1400 ft)	4.2 km	(2.6 mi)	8.4 km	(5.2 mi)	915 m	(3000 ft)	11.0+ km	(7.0+ mi)	11.0+ km	(7.0+ mi)
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	60 m	(200 ft)	0.5 km	(0.3 mi)	1.6 km	(1.0 mi)	430 m	(1400 ft)	4.0 km	(2.5 mi)	9.8 km	(6.1 mi)
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	30 m	(100 ft)	0.3 km	(0.2 mi)	1.3 km	(0.8 mi)	215 m	(700 ft)	3.1 km	(1.9 mi)	7.2 km	(4.5 mi)
3355	Insecticide gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)	185 m	(600 ft)	1.6 km	(1.0 mi)	4.3 km	(2.7 mi)
9191	Chlorine dioxide, hydrate, frozen (when spilled in water)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.6 km	(0.4 mi)
9192	Fluorine, refrigerated liquid (cryogenic liquid)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.5 km	(0.3 mi)	185 m	(600 ft)	1.4 km	(0.9 mi)	4.0 km	(2.5 mi)
9202	Carbon monoxide, refrigerated liquid (cryogenic liquid)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	125 m	(400 ft)	0.6 km	(0.4 mi)	1.8 km	(1.1 mi)
9206	Methyl phosphonic dichloride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.3 km	(0.2 mi)
9263	Chloropivaloylchloride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
9264	3,5-Dichloro-2,4,6- trifluoropyridine	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.5 km	(0.3 mi)
9269	Trimethoxysilane	30 m	(100 ft)	0.3 km	(0.2 mi)	1.0 km	(0.6 mi)	215 m	(700 ft)	2.1 km	(1.3 mi)	4.2 km	(2.6 mi)

See Next Pa	age for Table of Wate	r-Reactive Materials Whic	ch Produce Toxic Gase	S
Page 359	"+" means distance can	be larger in certain atmospher	ic conditions	

Materials Which Produce Large Amounts of Toxic-by-Inhalation (TIH) Gas(es)

When Spilled in Water

ID	ID Guide TIH Gas(es)						
No.	No.	Name of Material	I			Produced	
1162	151	Dimethyldichlorosilane			HCI		
1242	139	Methyldichlorosilane			HCI		
1250	155	Methyltrichlorosilane			HCI		
1295	139	Trichlorosilane			HCI		
1298	155	Trimethylchlorosilane			HCI		
1340	139	Phosphorus pentasulfide, f	free fro	om yellow and white Phosphorus	H_2S		
1340	139	Phosphorus pentasulphide	e, free	from yellow and white Phosphorus	S H ₂ S		
1360	139	Calcium phosphide			PH_3		
1384	135	Sodium dithionite			H_2S	SO ₂	
1384	135	Sodium hydrosulfite			H_2S	SO ₂	
1384	135	Sodium hydrosulphite			H_2S	SO ₂	
1397	139	Aluminum phosphide			$PH_{_3}$		
1412	139	Lithium amide			$\mathrm{NH}_{_3}$		
1419	139	Magnesium aluminum phosphide					
1432	139	Sodium phosphide			PH_3		
1433	139	Stannic phosphides			$PH_{_3}$		
1541	155	Acetone cyanohydrin, stab	oilized		HCN		
1680	157	Potassium cyanide			HCN		
1689	157	Sodium cyanide			HCN		
1714	139	Zinc phosphide			$PH_{_3}$		
1716	156	Acetyl bromide			HBr		
1717	132	Acetyl chloride			HCI		
1724	155	Allyl trichlorosilane, stabiliz	zed		HCI		
1725	137	Aluminum bromide, anhydr	Irous		HBr		
-							
Chem Br ₂	-	bols for TIH Gases: nine H	4F	Hydrogen fluoride PH	Dh	osphine	
CI,			11 11	Hydrogen iodide SO	Sul	fur dioxide	
HBI			H ₂ S	Hydrogen sulfide SO	ຸ Sul	phur dioxide	
HC HC			H ₂ S NH ₃	Hydrogen sulphide SO Ammonia SO	3 Sul	fur trioxide phur trioxide	

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Use this list only when material is spilled in water.

Materials Which Produce Large Amounts of Toxic-by-Inhalation (TIH) Gas(es) When Spilled in Water

ID No.	Guide No.	Name of Mate	rial			Т		is(es) luced
1726	137	Aluminum chloride, an				HCI		
1728	155	Amyltrichlorosilane				HCI		
1732	157	Antimony pentafluoride	<u> </u>			HF		
1736	137	Benzoyl chloride				HCI		
1745	144	Bromine pentafluoride				HF	HBr	Br ₂
1746	144	Bromine trifluoride				HF	HBr	Br ₂
1747	155	Butyltrichlorosilane				HCI		L
1752	156	Chloroacetyl chloride				HCI		
1754	137	Chlorosulfonic acid				HCI		
1754	137	Chlorosulfonic acid and	d Sulfur t	rioxide mixture		HCI		
1754	137	Chlorosulphonic acid				HCI		
1754	137	Chlorosulphonic acid a	nd Sulph	nur trioxide mixture		HCI		
1754	137	Sulfur trioxide and Chlorosulfonic acid				HCI		
1754	137	Sulphur trioxide and Chlorosulphonic acid				HCI		
1758	137	Chromium oxychloride				HCI		
1777	137	Fluorosulfonic acid				HF		
1777	137	Fluorosulphonic acid				HF		
1801	156	Octyltrichlorosilane				HCI		
1806	137	Phosphorus pentachloride				HCI		
1809	137	Phosphorus trichloride				HCI		
1810	137	Phosphorus oxychlorid	е			HCI		
1818	157	Silicon tetrachloride				HCI		
1828	137	Sulfur chlorides				HCI	SO ₂	H_2S
1828	137	Sulphur chlorides				HCI	SO ₂	H_2S
	ical Sym	bols for TIH Gases:						
Br ₂ Bromine Cl ₂ Chlorine HBr Hydrogen bromide HCl Hydrogen chloride HCN Hydrogen cyanide		HF HI H ₂ S H ₂ S NH ₃	Hydrogen fluoride Hydrogen iodide Hydrogen sulfide Hydrogen sulphide Ammonia	PH ₃ SO ₂ SO ₂ SO ₃ SO ₃	Sul Sul Sul	osphine fur diox phur di fur triox phur tr	xide oxide xide	

Use this list only when material is spilled in water.

Materials Which Produce Large Amounts of Toxic-by-Inhalation (TIH) Gas(es)

When Spilled in Water

When Spilled in Water							
ID No.	Guide No.	Name of Material		TIH Gas(es) Produced			
1834	137	Sulfuryl chloride	HC	I SO ₃			
1834	137	Sulphuryl chloride	НС	I SO ₃			
1836	137	Thionyl chloride	НС	I SO ₂			
1838	137	Titanium tetrachloride	НС	I			
1898	156	Acetyl iodide	HI				
1923	135	Calcium dithionite	H ₂ S	S SO ₂			
1923	135	Calcium hydrosulfite	H ₂ S	S SO ₂			
1923	135	Calcium hydrosulphite	H ₂ S	S SO ₂			
1939	137	Phosphorus oxybromide	НВ	r			
1939	137	Phosphorus oxybromide, solid	НВ	r			
2004	135	Magnesium diamide	NH	3			
2011	139	Magnesium phosphide	PH	3			
2012	139	Potassium phosphide	PH_3				
2013	139	Strontium phosphide	PH ₃				
2442	156	Trichloroacetyl chloride	HCI				
2495	144	lodine pentafluoride	HF				
2576	137	Phosphorus oxybromide, molten	HBr				
2691	137	Phosphorus pentabromide	HBr				
2692	157	Boron tribromide	НВ	r			
2806	138	Lithium nitride	NH	3			
2977	166	Radioactive material, Uranium hexafluoride, fissile	HF				
2977	166	Uranium hexafluoride, fissile containing more than 1% Uranium-235	HF				
2978	166	Radioactive material, Uranium hexafluoride, non-fissile or fissile excepted	HF				
		bols for TIH Gases:					
Br ₂ Cl ₂ HBi HC	Chl r Hyd I Hyd	mine HF Hydrogen fluoride prine HI Hydrogen iodide rogen bromide H ₂ S Hydrogen sulfide rogen chloride H ₂ S Hydrogen sulphide	SO ₂ S SO ₂ S SO ₃ S	Phosphine Sulfur dioxide Sulphur dioxide Sulfur trioxide			
HC		rogen cyanide NĤ ₃ Ammonia	3	Sulphur trioxide			

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Use this list only when material is spilled in water.

Materials Which Produce Large Amounts of Toxic-by-Inhalation (TIH) Gas(es) When Spilled in Water

ID No.	Guide No.	Name of Material	TIH Gas(es) Produced
2978	166	Uranium hexafluoride, fissile excepted	HF
2978	166	Uranium hexafluoride, low specific activity	HF
2978	166	Uranium hexafluoride, non-fissile	HF
2985	155	Chlorosilanes, flammable, corrosive, n.o.s.	HCI
2985	155	Chlorosilanes, n.o.s.	HCI
2986	155	Chlorosilanes, corrosive, flammable, n.o.s.	HCI
2986	155	Chlorosilanes, n.o.s.	HCI
2987		,	HCI
	156	Chlorosilanes, corrosive, n.o.s.	
2987	156	Chlorosilanes, n.o.s.	HCI
2988	139	Chlorosilanes, n.o.s.	HCI
2988	139	Chlorosilanes, water-reactive, flammable, corrosive, n.o.s.	HCI
3048	157	Aluminum phosphide pesticide	PH ₃
3049	138	Metal alkyl halides, n.o.s.	HCI
3049	138	Metal alkyl halides, water-reactive, n.o.s.	HCI
3049	138	Metal aryl halides, n.o.s.	HCI
3049	138	Metal aryl halides, water-reactive, n.o.s.	HCI
3052	135	Aluminum alkyl halides	HCI
9191	143	Chlorine dioxide, hydrate, frozen	Cl ₂

Chemical Symbols for TIH Gases:

Br ₂	Bromine	HF	Hydrogen fluoride	PH,	Phosphine
CI,	Chlorine	HI	Hydrogen iodide	SO,	Sulfur dioxide
HBr	Hydrogen bromide	$H_{2}S$	Hydrogen sulfide	SO,	Sulphur dioxide
HCI	Hydrogen chloride	H ₂ S	Hydrogen sulphide	SO ²	Sulfur trioxide
HCN	Hydrogen cyanide	NH_3	Ammonia	SO ₃	Sulphur trioxide

PROTECTIVE CLOTHING

Street Clothing and Work Uniforms. These garments, such as uniforms worn by police and emergency medical services personnel, provide almost no protection from the harmful effects of dangerous goods.

Structural Fire Fighters' Protective Clothing (SFPC). This category of clothing, often called turnout or bunker gear, means the protective clothing normally worn by fire fighters during structural fire fighting operations. It includes a helmet, coat, pants, boots, gloves and a hood to cover parts of the head not protected by the helmet and facepiece. This clothing must be used with full-facepiece positive pressure self-contained breathing apparatus (SCBA). This protective clothing should, at a minimum, meet the OSHA Fire Brigades Standard (29 CFR 1910.156). Structural fire fighters' protective clothing provides limited protection from heat and cold, but may not provide adequate protection from the harmful vapors or liquids that are encountered during dangerous goods incidents. Each guide includes a statement about the use of SFPC in incidents involving those materials referenced by that guide. Some guides state that SFPC provides limited protection. In those cases, the responder wearing SFPC and SCBA may be able to perform an expedient, that is quick "in-and-out", operation. However, this type of operation can place the responder at risk of exposure, injury or death. The incident commander makes the decision to perform this operation only if an overriding benefit can be gained (i.e., perform an immediate rescue, turn off a valve to control a leak, etc.). The coverall-type protective clothing customarily worn to fight fires in forests or wildlands is **not** SFPC and is not recommended nor referred to elsewhere in this guidebook.

Positive Pressure Self-Contained Breathing Apparatus (SCBA). This apparatus provides a constant, positive pressure flow of air within the facepiece, even if one inhales deeply while doing heavy work. Use apparatus certified by NIOSH and the Department of Labor/Mine Safety and Health Administration in accordance with 42 CFR Part 84. Use it in accordance with the requirements for respiratory protection specified in OSHA 29 CFR 1910.134 (Respiratory Protection) and/or 29 CFR 1910.156 (f) (Fire Brigades Standard.) Chemical-cartridge respirators or other filtering masks are not acceptable substitutes for positive pressure self-contained breathing apparatus. Demand-type SCBA does not meet the OSHA 29 CFR 1910.156 (f)(1)(i) Fire Brigade Standard.

Chemical Protective Clothing and Equipment. Safe use of this type of protective clothing and equipment requires specific skills developed through training and experience. It is generally not available to, or used by, first responders. This type of special clothing may protect against one chemical, yet be readily permeated by chemicals for which it was not designed. Therefore, protective clothing should not be used unless it is compatible with the released material. This type of special clothing offers little or no protection against heat and/ or cold. Examples of this type of equipment have been described as (1) Vapor Protective Suits (NFPA 1991), also known as Totally-Encapsulating Chemical Protective (TECP) Suits or Level A* protection (OSHA 29 CFR 1910.120, Appendix A & B), and (2) Liquid-Splash Protective Suits (NFPA 1992 & 1993), also known as Level B* or C* protection (OSHA 29

CFR 1910.120, Appendix A & B). No single protective clothing material will protect you from all dangerous goods. Do not assume any protective clothing is resistant to cold and/or heat or flame exposure unless it is so certified by the manufacturer. (NFPA 1991 5-3 Flammability Resistance Test and 5-6 Cold Temperature Performance Test.)

* Consult glossary for additional protection levels under the heading "Protective Clothing".

FIRE AND SPILL CONTROL

FIRE CONTROL

Water is the most common and generally most available fire extinguishing agent. Exercise caution in selecting a fire extinguishing method since there are many factors to be considered in an incident. Water may be ineffective in fighting fires involving some materials; its effectiveness depends greatly on the method of application.

Spill fires involving flammable liquids are generally controlled by applying a fire fighting foam to the surface of the burning material. Fighting flammable liquid fires requires foam concentrate which is chemically compatible with the burning material, correct mixing of the foam concentrate with water and air, and careful application and maintenance of the foam blanket. There are two general types of fire fighting foam: regular and alcohol-resistant. Examples of regular foam are protein-base, fluoroprotein, and aqueous film forming foam (AFFF). Some flammable liquids, including many petroleum products, can be controlled by applying regular foam. Other flammable liquids, including polar solvents (flammable liquids which are water soluble) such as alcohols and ketones, have different chemical properties. A fire involving these materials cannot be easily controlled with regular foam and requires application of alcohol-resistant foam. Polar-solvent fires may be difficult to control and require a higher foam application rate than other flammable liquid fires (see NFPA/ANSI Standards 11 and 11A for further information). Refer to the appropriate guide to determine which type of foam is recommended. Although it is impossible to make specific recommendations for flammable liquids which have subsidiary corrosive or toxic hazards, alcohol-resistant foam may be effective for many of these materials. The emergency response telephone number on the shipping document, or the appropriate emergency response agency, should be contacted as soon as possible for guidance on the proper fire extinguishing agent to use. The final selection of the agent and method depends on many factors such as incident location, exposure hazards, size of the fire, environmental concerns, as well as the availability of extinguishing agents and equipment at the scene.

WATER REACTIVE MATERIALS

Water is sometimes used to flush spills and to reduce or direct vapors in spill situations. Some of the materials covered by the guidebook can react violently or even explosively with water. In these cases, consider letting the fire burn or leaving the spill alone (except to prevent its spreading by diking) until additional technical advice can be obtained. The applicable guides clearly warn you of these potentially dangerous reactions. These materials require technical advice since

- (1) water getting inside a ruptured or leaking container may cause an explosion;
- (2) water may be needed to cool adjoining containers to prevent their rupturing (exploding) or further spread of the fires;
- (3) water may be effective in mitigating an incident involving a water-reactive material only if it can be applied at a sufficient flooding rate for an extended period; and

(4) the products from the reaction with water may be more toxic, corrosive, or otherwise more undesirable than the product of the fire without water applied.

When responding to an incident involving water-reactive chemicals, take into account the existing conditions such as wind, precipitation, location and accessibility to the incident, as well as the availability of the agents to control the fire or spill. Because there are variables to consider, the decision to use water on fires or spills involving water-reactive materials should be based on information from an authoritative source; for example, a producer of the material, who can be contacted through the emergency response telephone number or the appropriate emergency response agency.

VAPOR CONTROL

Limiting the amount of vapor released from a pool of flammable or corrosive liquids is an operational concern. It requires the use of proper protective clothing, specialized equipment, appropriate chemical agents, and skilled personnel. Before engaging in vapor control, get advice from an authoritative source as to the proper tactics.

There are several ways to minimize the amount of vapors escaping from pools of spilled liquids, such as special foams, adsorbing agents, absorbing agents, and neutralizing agents. To be effective, these vapor control methods must be selected for the specific material involved and performed in a manner that will mitigate, not worsen, the incident.

Where specific materials are known, such as at manufacturing or storage facilities, it is desirable for the dangerous goods response team to prearrange with the facility operators to select and stockpile these control agents in advance of a spill. In the field, first responders may not have the most effective vapor control agent for the material available. They are likely to have only water and only one type of fire fighting foam on their vehicles. If the available foam is inappropriate for use, they are likely to use water spray. Because the water is being used to form a vapor seal, care must be taken not to churn or further spread the spill during application. Vapors that do not react with water may be directed away from the site using the air currents surrounding the water spray. Before using water spray or other methods to safely control vapor emission or to suppress ignition, obtain technical advice, based on specific chemical name identification.

CRIMINAL/TERRORIST USE OF CHEMICAL/BIOLOGICAL AGENTS

The following is intended to supply information to first responders for use in making a preliminary assessment of a situation that they suspect involves criminal/terrorist use of chemical and/or biological (CB) agents. To aid in the assessment, a list of observable indicators of the use and/or presence of a CB agent is provided in the following paragraphs.

DIFFERENCES BETWEEN A CHEMICAL AND A BIOLOGICAL AGENT

Chemical and biological agents can be dispersed in the air we breathe, the water we drink, or on surfaces we physically contact. Dispersion methods may be as simple as opening a container, using conventional (garden) spray devices, or as elaborate as detonating an improvised explosive device.

Chemical Incidents are characterized by the rapid onset of medical symptoms (minutes to hours) and easily observed signatures (colored residue, dead foliage, pungent odor, dead insects and animals).

Biological Incidents are characterized by the onset of symptoms in hours to days. Typically, there will be no characteristic signatures because biological agents are usually odorless and colorless. Because of the delayed onset of symptoms in a biological incident, the area affected may be greater due to the movement of infected individuals.

INDICATORS OF A POSSIBLE CHEMICAL INCIDENT

Dead animals/birds/fish	Not just a	n occasional road kill.	but numerous animals
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(wild and domestic, small and large), birds, and fish in

the same area.

Lack of insect life If normal insect activity (ground, air, and/or water) is

missing, check the ground/water surface/shore line for dead insects. If near water, check for dead fish/aquatic

birds.

Unexplained odors Smells may range from fruity to flowery to sharp/pungent

to garlic/horseradish-like to bitter almonds/peach kernels to new mown hay. It is important to note that the particular odor is completely out of character with its surroundings.

Unusual numbers of dying or sick people (mass casualties)

Health problems including nausea, disorientation, difficulty in breathing, convulsions, localized sweating, conjunctivitis (reddening of eyes/nerve agent symptoms), erythema

(reddening of skin/vesicant symptoms) and death.

Pattern of casualties Casualties will likely be distributed downwind, or if indoors,

by the air ventilation system.

INDICATORS OF A POSSIBLE CHEMICAL INCIDENT (Continued)

Blisters/rashes Numerous individuals experiencing unexplained water-

like blisters, weals (like bee stings), and/or rashes.

Illness in confined areaDifferent casualty rates for people working indoors versus

outdoors dependent on where the agent was released.

Unusual liquid droplets Numerous surfaces exhibit oily droplets/film; numerous

water surfaces have an oily film. (No recent rain.)

Different looking areasNot just a patch of dead weeds, but trees, shrubs, bushes,

food crops, and/or lawns that are dead, discolored, or

withered. (No current drought.)

Low-lying clouds Low-lying cloud/fog-like condition that is not consistent

with its surroundings.

Unusual metal debris Unexplained bomb/munitions-like material, especially if it

contains a liquid.

INDICATORS OF A POSSIBLE BIOLOGICAL INCIDENT

Unusual numbers of sick or dying people or animals

Any number of symptoms may occur. Casualties may occur hours to days after an incident has occurred. The time required before symptoms are observed is dependent

on the agent used.

Unscheduled and unusual spray being disseminated

Especially if outdoors during periods of darkness.

Abandoned spray devices Devices may not have distinct odors.

PERSONAL SAFETY CONSIDERATIONS

When approaching a scene that may involve CB agents, the most critical consideration is the safety of oneself and other responders. Protective clothing and respiratory protection of appropriate level of safety must be used. Be aware that the presence and identification of CB agents may not be verifiable, especially in the case of biological agents. The following actions/measures to be considered are applicable to either a chemical or biological incident. The guidance is general in nature, not all encompassing, and its applicability should be evaluated on a case-by-case basis.

Approach and response strategies. Protect yourself and use a safe approach (minimize any exposure time, maximize the distance between you and the item that is likely to harm you, use cover as protection and wear appropriate personal protective equipment and

respiratory protection). Identify and estimate the hazard by using indicators as provided above. Isolate the area and secure the scene; potentially contaminated people should be isolated and decontaminated as soon as possible. In the event of a chemical incident, the fading of chemical odors is not necessarily an indication of reduced vapor concentrations. Some chemicals deaden the senses giving the false perception that the chemical is no longer present.

Decontamination measures. Emergency responders should follow standard decontamination procedures (flush-strip-flush). Mass casualty decontamination should begin as soon as possible by stripping (all clothing) and flushing (soap and water). If biological agents are involved or suspected, careful washing and use of a brush are more effective. If chemical agents are suspected, the most important and effective decontamination will be that done within the first one or two minutes. If possible, further decontamination should be performed using a 0.5% hypochlorite solution (1 part household bleach mixed with 9 parts water). If biological agents are suspected, a contact time of 10 to 15 minutes should be allowed before rinsing. The solution can be used on soft tissue wounds, but must not be used in eyes or open wounds of the abdomen, chest, brain, or spine. For further information contact the agencies listed in this guidebook.

NOTE: The above information was developed by the Department of National Defence (Canada) and the U.S. Department of the Army, Edgewood Arsenal.

Alcohol resistant foam A foam that is resistant to "polar" chemicals such as ketones and

esters which may break down other types of foam.

Biological agents Living organisms that cause disease, sickness and mortality in

humans. Anthrax and Ebola are examples of biological agents.

Refer to Guide 158.

Blister agents (vesicants) Substances that cause blistering of the skin. Exposure is through

liquid or vapor contact with any exposed tissue (eyes, skin, lungs). Mustard (H), Distilled Mustard (HD), Nitrogen Mustard (HN) and

Lewisite (L) are blister agents.

Symptoms: Red eyes, skin irritation, burning of skin, blisters,

upper respiratory damage, cough, hoarseness.

Blood agents Substances that injure a person by interfering with cell respiration

(the exchange of oxygen and carbon dioxide between blood and tissues). Hydrogen cyanide (AC) and Cyanogen chloride (CK)

are blood agents.

Symptoms: Respiratory distress, headache, unresponsiveness,

seizures, coma.

Burn Refers to either a chemical or thermal burn, the former may be

caused by corrosive substances and the latter by liquefied

cryogenic gases, hot molten substances, or flames.

Choking agents Substances that cause physical injury to the lungs. Exposure is

through inhalation. In extreme cases, membranes swell and lungs become filled with liquid (pulmonary edema). Death results from lack of oxygen; hence, the victim is "choked". Phosgene (CG) is

a choking agent.

Symptoms: irritation to eyes/nose/throat, respiratory distress,

nausea and vomiting, burning of exposed skin.

CO₂ Carbon dioxide gas.

Cold zone Area where the command post and support functions that are

necessary to control the incident are located. This is also referred to as the clean zone, green zone or support zone in other documents. (EPA Standard Operating Safety Guidelines, OSHA

29 CFR 1910.120, NFPA 472)

Combustible liquid

Liquids which have a flash point greater than $60.5\,^{\circ}\text{C}$ (141°F) and below 93°C (200°F). U.S. regulations permit a flammable liquid with a flash point between 38°C (100°F) and $60.5\,^{\circ}\text{C}$ (141°F) to be reclassed as a combustible liquid.

Compatibility Group

Letters identify explosives that are deemed to be compatible. Class 1 materials are considered to be "compatible" if they can be transported together without significantly increasing either the probability of an incident or, for a given quantity, the magnitude of the effects of such an incident.

- A Substances which are expected to mass detonate very soon after fire reaches them.
- B Articles which are expected to mass detonate very soon after fire reaches them.
- C Substances or articles which may be readily ignited and burn violently without necessarily exploding.
- D Substances or articles which may mass detonate (with blast and/or fragment hazard) when exposed to fire.

E&F Articles which may mass detonate in a fire.

- G Substances and articles which may mass explode and give off smoke or toxic gases.
- H Articles which in a fire may eject hazardous projectiles and dense white smoke.
- J Articles which may mass explode.
- K Articles which in a fire may eject hazardous projectiles and toxic gases.
- L Substances and articles which present a special risk and could be activated by exposure to air or water.
- N Articles which contain only extremely insensitive detonating substances and demonstrate a negligible probability of accidental ignition or propagation.
- S Packaged substances or articles which, if accidentally initiated, produce effects that are usually confined to the immediate vicinity.

Control zones Designated areas at dangerous goods incidents, based on safety

and the degree of hazard. Many terms are used to describe control zones; however, in this guidebook, these zones are defined as the hot/exclusion/restricted zone, warm/contamination reduction/limited access zone, and cold/support/clean zone. (EPA Standard Operating Safety Guidelines, OSHA 29 CFR 1910.120, NFPA 472)

Cryogenic liquid A refrigerated, liquefied gas that has a boiling point colder

than -90°C (-130°F) at atmospheric pressure.

Dangerous Water Produces significant toxic gas when it comes in contact with water. Reactive Material

Decomposition products Products of a chemical or thermal break-down of a substance.

Decontamination The removal of dangerous goods from personnel and equipment

to the extent necessary to prevent potential adverse health effects. Always avoid direct or indirect contact with dangerous goods; however, if contact occurs, personnel should be decontaminated as soon as possible. Since the methods used to decontaminate personnel and equipment differ from one chemical to another, contact the chemical manufacturer, through the agencies listed on the inside back cover, to determine the appropriate procedure. Contaminated clothing and equipment should be removed after use and stored in a controlled area (warm/contamination reduction/limited access zone) until cleanup procedures can be initiated. In some cases, protective clothing and equipment cannot be decontaminated and must be disposed of in a proper manner.

Dry chemical A preparation designed for fighting fires involving flammable

liquids, pyrophoric substances and electrical equipment. Common types contain sodium bicarbonate or potassium bicarbonate.

Edema The accumulation of an excessive amount of watery fluid in cells

and tissues. Pulmonary edema is an excessive buildup of water in the lungs, for instance, after inhalation of a gas that is corrosive

to lung tissue.

Flammable liquid A liquid that has a flash point of 60.5 °C (141°F) or lower.

Flash point Lowest temperature at which a liquid or solid gives off vapor in

such a concentration that, when the vapor combines with air near the surface of the liquid or solid, a flammable mixture is formed. Hence, the lower the flash point, the more flammable the material.

Hazard Zones)

Hazard zones (Inhalation HAZARD ZONE A: LC50 of less than or equal to 200 ppm,

HAZARD ZONE B: LC50 greater than 200 ppm and less than or

equal to 1000 ppm,

HAZARD ZONE C: LC50 greater than 1000 ppm and less than

or equal to 3000 ppm,

HAZARD ZONE D: LC50 greater than 3000 ppm and less than

or equal to 5000 ppm.

Hot zone

Area immediately surrounding a dangerous goods incident which extends far enough to prevent adverse effects from released dangerous goods to personnel outside the zone. This zone is also referred to as exclusion zone, red zone or restricted zone in other documents. (EPA Standard Operating Safety Guidelines,

OSHA 29 CFR 1910.120, NFPA 472)

Immiscible

In this guidebook, means that a material does not mix readily with

water.

Mass explosion

Explosion which affects almost the entire load virtually

instantaneously.

Miscible

In this guidebook, means that a material mixes readily with water.

Nerve agents

Substances that interfere with the central nervous system. Exposure is primarily through contact with the liquid (via skin and eyes) and secondarily through inhalation of the vapor. Tabun (GA), Sarin (GB), Soman (GD) and VX are nerve agents.

Symptoms: Pinpoint pupils, extreme headache, severe tightness in the chest, dyspnea, runny nose, coughing, salivation,

unresponsiveness, seizures.

Non-polar

See "Immiscible".

n.o.s.

These letters refer to not otherwise specified. The entries which use this description are generic names such as "Corrosive liquid, n.o.s." This means that the actual chemical name for that corrosive liquid is not listed in the regulations; therefore, a generic name must be used to describe it on shipping papers.

Noxious

In this guidebook, means that a material may be harmful or injurious to health or physical well-being.

Oxidizer

A chemical which supplies its own oxygen and which helps other

combustible material burn more readily.

Ρ The letter "P" following a guide number in the yellow-bordered

> and blue-bordered pages identifies a material which may polymerize violently under high temperature conditions or contamination with other products. This polymerization will produce heat and high pressure buildup in containers which may

explode or rupture. (See polymerization below.)

рΗ pH is a value that represents the acidity or alkalinity of a water

> solution. Pure water has a pH of 7. A pH value below 7 indicates an acid solution (a pH of 1 is extremely acidic). A pH above 7 indicates an alkaline solution (a pH of 14 is extremely alkaline). Acids and alkalies (bases) are commonly referred to as corrosive materials.

PIH Poison Inhalation Hazard. Term used to describe gases and

volatile liquids that are toxic when inhaled. (Same as TIH)

Polar See "Miscible".

Polymerization This term describes a chemical reaction which is generally

associated with the production of plastic substances. Basically, the individual molecules of the chemical (liquid or gas) react with each other to produce what can be described as a long chain. These chains can be formed in many useful applications. A well known example is the styrofoam (polystyrene) coffee cup which is formed when liquid molecules of styrene react with each other or polymerize forming a solid, therefore changing the name from

styrene to polystyrene (poly means many).

Protective clothing Includes both respiratory and physical protection. One cannot

assign a level of protection to clothing or respiratory devices separately. These levels were accepted and defined by response organizations such as U.S. Coast Guard, NIOSH, and U.S. EPA.

Level A: SCBA plus totally encapsulating chemical resistant

clothing (permeation resistant).

Level B: SCBA plus hooded chemical resistant clothing (splash suit). Level C: Full or half-face respirator plus hooded chemical

resistant clothing (splash suit).

Level D: Coverall with no respiratory protection.

Pyrophoric A material which ignites spontaneously upon exposure to air (or oxygen).

Radioactivity The property of some substances to emit invisible and potentially

harmful radiation.

Radiation Authority As referred to in Guides 161 through 166 for radioactive materials,

the Radiation Authority is either a Federal, state/provincial agency or state/province designated official. The responsibilities of this authority include evaluating radiological hazard conditions during normal operations and during emergencies. If the identity and telephone number of the authority are not known by emergency responders, or included in the local response plan, the information can be obtained from the agencies listed on the inside back cover. They maintain a periodically updated list of radiation authorities.

Refrigerated liquid See "Cryogenic liquid".

Straight (solid) stream Method used to apply or distribute water from the end of a hose.

The water is delivered under pressure for penetration. In an efficient straight (solid) stream, approximately 90% of the water passes through an imaginary circle 38 cm (15 inches) in diameter at the breaking point. Hose (solid or straight) streams are frequently used to cool tanks and other equipment exposed to flammable liquid fires, or for washing burning spills away from danger points. However, straight streams will cause a spill fire to spread if improperly used or when directed into open containers

of flammable and combustible liquids.

TIH Toxic Inhalation Hazard. Term used to describe gases and volatile

liquids that are toxic when inhaled. (Same as PIH)

Vapor density Weight of a volume of pure vapor or gas (with no air present)

compared to the weight of an equal volume of dry air at the same temperature and pressure. A vapor density less than 1 (one) indicates that the vapor is lighter than air and will tend to rise. A vapor density greater than 1 (one) indicates that the vapor is

heavier than air and may travel along the ground.

Vapor pressure Pressure at which a liquid and its vapor are in equilibrium at a

given temperature. Liquids with high vapor pressures evaporate

rapidly.

Viscosity Measure of a liquid's internal resistance to flow. This property is

important because it indicates how fast a material will leak out

through holes in containers or tanks.

Warm zone

Area between Hot and Cold zones where personnel and equipment decontamination and hot zone support take place. It includes control points for the access corridor and thus assists in reducing the spread of contamination. Also referred to as the contamination reduction corridor (CRC), contamination reduction zone (CRZ), yellow zone or limited access zone in other documents. (EPA Standard Operating Safety Guidelines, OSHA 29 CFR 1910.120, NFPA 472)

Water-sensitive

Substances which may produce flammable and/or toxic decomposition products upon contact with water.

Water spray (fog)

Method or way to apply or distribute water. The water is finely divided to provide for high heat absorption. Water spray patterns can range from about 10 to 90 degrees. Water spray streams can be used to extinguish or control the burning of a fire or to provide exposure protection for personnel, equipment, buildings, etc. (This method can be used to absorb vapors, knockdown vapors or disperse vapors. Direct a water spray (fog), rather than a straight (solid) stream, into the vapor cloud to accomplish any of the above).

Water spray is particularly effective on fires of flammable liquids and volatile solids having flash points above 37.8°C (100°F).

Regardless of the above, water spray can be used successfully on flammable liquids with low flash points. The effectiveness depends particularly on the method of application. With proper nozzles, even gasoline spill fires of some types have been extinguished when coordinated hose lines were used to sweep the flames off the surface of the liquid. Furthermore, water spray carefully applied has frequently been used with success in extinguishing fires involving flammable liquids with high flash points (or any viscous liquids) by causing frothing to occur only on the surface, and this foaming action blankets and extinguishes the fire.

PUBLICATION DATA

The 2000 Emergency Response Guidebook (ERG2000) was prepared by the staff of Transport Canada, the U.S. Department of Transportation, and the Secretariat of Communications and Transport of Mexico with the assistance of many interested parties from government and industry.

ERG2000 is based on earlier Transport Canada, U.S. DOT, and Secretariat of Communications and Transport emergency response guidebooks. The Emergency Response Guidebook has been translated and printed in many languages, including French, Spanish, Chinese, German, Hebrew, Japanese, Portuguese, and Thai.

We encourage countries that wish to participate in future editions of the Guidebook to provide their emergency response center information for inclusion. Please contact any of the websites or telephone numbers in the paragraph below.

DISTRIBUTION OF THIS GUIDEBOOK

The primary objective is to place one copy of the ERG2000 in each emergency service vehicle through distribution to Federal, state, provincial and local public safety authorities. The distribution of this guidebook is being accomplished through the voluntary cooperation of a network of key agencies. Emergency service organizations that have not yet received copies of ERG2000 should contact the respective distribution center in their country, state or province. In the U.S., information about the distribution center for your location may be obtained from the Hazardous Material Safety web site at http://hazmat.dot.gov or call 202-366-4900. In Canada, contact CANUTEC at 613-992-4624 or via the web site at http://www.canutec.gc.ca for information. In Mexico, call SCT at 52-5-684-1275 or 684-0188.

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Constructive comments concerning ERG2000 are solicited; in particular, comments concerning its use in handling incidents involving dangerous goods. Comments should be addressed to:

In Canada:

Chief, CANUTEC
Transport Dangerous Goods
Transport Canada
Ottawa, Ontario
Canada K1A 0N5

Phone: 613-992-4624 (information) FAX: 613-954-5101 Internet: canutec@tc.gc.ca

In the U.S.:

U. S. Department of Transportation Research and Special Programs Administration Office of Hazardous Materials Initiatives and Training (DHM-50) Washington, DC 20590-0001

> Phone: 202-366-4900 FAX: 202-366-7342 Internet: welisten@rspa.dot.gov

In Mexico:

Secretariat for Communications and Transport Land Transport Directorate Hazardous Materials and Wastes Directorate Calz. de las Bombas No. 411-9 piso Col. San Bartolo Coapa Coyoacan 04800, D.F. Mexico

Phone and FAX: 52-5-684-1275 and 684-0188

EMERGENCY RESPONSE TELEPHONE NUMBERS

CANADA

1. CANUTEC

613-996-6666

(Collect calls are accepted) *666 cellular (in Canada only)

UNITED STATES

1. CHEMTREC®

1-800-424-9300

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands)
703-527-3887 For calls originating elsewhere
(Collect calls are accepted)

2. CHEM-TEL, INC.

1-800-255-3924

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) 813-248-0585 For calls originating elsewhere (Collect calls are accepted)

3. INFOTRAC

1-800-535-5053

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) 352-323-3500 For calls originating elsewhere (Collect calls are accepted)

4. 3E COMPANY

1-800-451-8346

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) 760-602-8703 For calls originating elsewhere (Collect calls are accepted)

5. MILITARY SHIPMENTS

703-697-0218 - Explosives/ammunition incidents (Collect calls are accepted)

1-800-851-8061 - All other dangerous goods incidents

EMERGENCY RESPONSE TELEPHONE NUMBERS

MEXICO

1. SETIQ

01-800-00-214-00 in the Mexican Republic
For calls originating in Mexico City and the Metropolitan Area
5559-1588
For calls originating elsewhere, call
0-11-52-5-559-1588

2. CECOM

01-800-00-413-00 in the Mexican Republic
For calls originating in Mexico City and the Metropolitan Area
5550-1496, 5550-1552. 5550-1485 or 5550-4885
For calls originating elsewhere, call
0-11-52-5-550-1496, or 0-11-52-5-550-1552
0-11-52-5-550-1485, or 0-11-52-5-550-4885

BRAZIL

1. PRÓ -QUÍMICA

0-800-118270

(Toll-free in Brazil) 55-11-232-1144 For calls originating elsewhere (Collect calls are accepted)

For additional details see the section entitled "WHO TO CALL FOR ASSISTANCE."

The Emergency Response Guidebook is normally revised and reissued every three or four years. However, in the event of a significant mistake, omission or change in the state of knowledge, special instructions to change the guidebook (in pen-and-ink, with paste-over stickers, or with a supplement) may be issued. Users of this guidebook should check periodically (about every 6 months) to make sure their version is current. Changes should be annotated below. Contact:

DOT/RSPA

http://hazmat.dot.gov/gydebook.htm

TRANSPORT CANADA

http://www.tc.gc.ca/canutec/en/guide/guide-e.htm

This guidebook incorporates changes dated:	