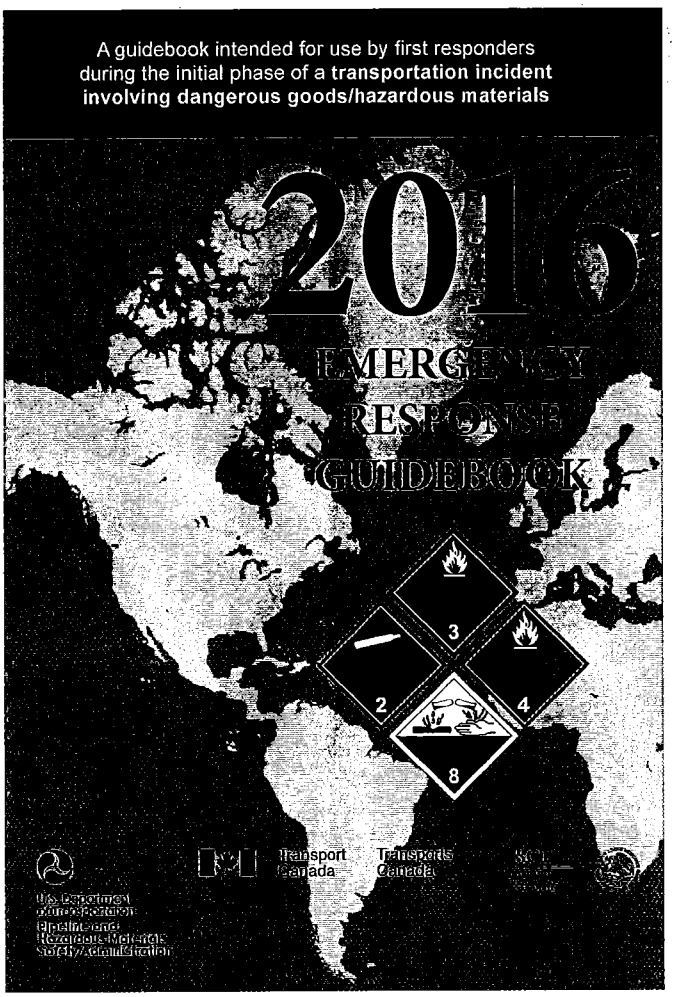


SHIPPING DOCUMENTS (PAPERS)

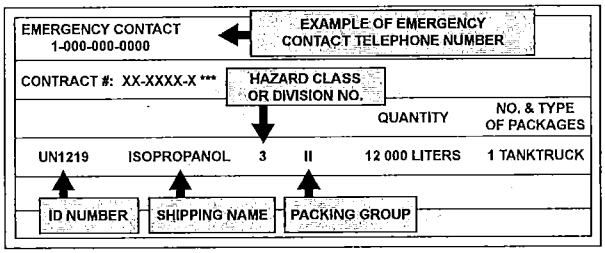
Shipping Documents (Papers) are synonymous and can be found as follows:

- Road – kept in the cab of a motor vehicle
- Rail – kept in possession of a crew member
- Aviation – kept in possession of the aircraft pilot
- Marine – kept in a holder on the bridge of a vessel

Shipping Documents (Papers) provide vital information regarding the hazardous materials/dangerous goods to initiate protective actions*

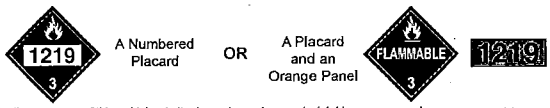
Information provided:

- 4-digit identification number, UN or NA (go to yellow pages)
- Proper shipping name (go to blue pages)
- Hazard class or division number of material
- Packing group
- Emergency response telephone number
- Information describing the hazards of the material (entered on or attached to shipping document) **



EXAMPLE OF PLACARD AND PANEL WITH ID NUMBER

The 4-digit ID Number may be shown on the diamond-shaped placard or on an adjacent orange panel displayed on the ends and sides of a cargo tank, vehicle or rail car.



* For the purposes of this guidebook, the terms hazardous materials/dangerous goods are synonymous.
** In the United States, this requirement may be satisfied by attaching a guide from the ERG2016 to the shipping document, or by having the entire guidebook available for reference.
*** In the United States, a registration or contract number is required on a shipping document.

LOCAL EMERGENCY TELEPHONE NUMBERS

Please populate this page with emergency telephone numbers for local assistance:

HAZMAT CONTRACTORS

RAIL COMPANIES

FEDERAL/STATE/PROVINCIAL AGENCIES

OTHERS

TABLE OF CONTENTS

SAFETY PRECAUTIONS

RESIST RUSHING IN!

APPROACH CAUTIOUSLY FROM *UPWIND, UPHILL* OR *UPSTREAM*:

- Stay clear of ***Vapor, Fumes, Smoke*** and ***Spills***
- Keep vehicle at a safe distance from the scene

SECURE THE SCENE:

- Isolate the area and protect yourself and others

IDENTIFY THE HAZARDS USING ANY OF THE FOLLOWING:

- Placards
- Container labels
- Shipping documents
- Rail Car and Road Trailer Identification Chart
- Material Safety Data Sheets (MSDS)
- Knowledge of persons on scene
- Consult applicable guide page

ASSESS THE SITUATION:

- 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 – evacuation, shelter in-place or dike?
- What resources (human and equipment) are required?
- What can be done immediately?

OBTAIN HELP:

- Advise your headquarters to notify responsible agencies and call for assistance from qualified personnel

RESPOND:

- Enter only when wearing appropriate protective gear
- Rescue attempts and protecting property must be weighed against you becoming part of the problem
- Establish a command post and lines of communication
- Continually reassess the situation and modify response accordingly
- Consider safety of people in the immediate area first, including your own safety

ABOVE ALL: Do not assume that gases or vapors are harmless because of lack of a smell – odorless gases or vapors may be harmful. Use **CAUTION** when handling empty containers because they may still present hazards until they are cleaned and purged of all residues.

NOTIFICATION AND REQUEST FOR TECHNICAL INFORMATION

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. **NOTIFY YOUR ORGANIZATION/AGENCY**
   - Based on information provided, this will set in motion a series of events
   - 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. **CALL THE EMERGENCY RESPONSE TELEPHONE NUMBER ON THE SHIPPING DOCUMENT**
   - If shipping paper is not available, use guidance under next section **"NATIONAL ASSISTANCE"**

3. **NATIONAL ASSISTANCE**
   - Contact the appropriate emergency response agency listed on the inside back cover of this guidebook
   - Provide as much information about the hazardous material and 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 if necessary
   - The agency will request on-scene assistance when necessary

4. **PROVIDE AS MUCH OF THE FOLLOWING INFORMATION AS POSSIBLE:**
   - 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

HAZARD CLASSIFICATION SYSTEM

The hazard class of dangerous goods is indicated either by its class (or division) number or name. Placards are used to identify the class or division of a material. The hazard class or division number must be displayed in the lower corner of a placard and is required for both primary and subsidiary hazard classes and divisions, if applicable. For other than Class 7 placards, text indicating a hazard (for example, "CORROSIVE") is not required. Text is shown only in the U.S. The hazard class or division number and subsidiary hazard classes or division numbers placed in parentheses (when applicable), must appear on the shipping document after each proper shipping name.

Class 1 - Explosives

Division 1.1	Explosives which have a mass explosion hazard
Division 1.2	Explosives which have a projection hazard but not a mass explosion hazard
Division 1.3	Explosives which have a fire hazard and either a minor blast hazard or a minor projection hazard or both, but not a mass explosion hazard
Division 1.4	Explosives which present no significant blast hazard
Division 1.5	Very insensitive explosives with a mass explosion hazard
Division 1.6	Extremely insensitive articles which do not have a mass explosion hazard

Class 2 - Gases

Division 2.1	Flammable gases
Division 2.2	Non-flammable, non-toxic* gases
Division 2.3	Toxic* gases

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

Class 4 - Flammable solids; Substances liable to spontaneous combustion; Substances which, on contact with water, emit flammable gases

Division 4.1	Flammable solids, self-reactive substances and solid desensitized explosives
Division 4.2	Substances liable to spontaneous combustion
Division 4.3	Substances which in contact with water emit flammable gases

Class 5 - Oxidizing substances and Organic peroxides

Division 5.1	Oxidizing substances
Division 5.2	Organic peroxides

Class 6 - Toxic* substances and Infectious substances

Division 6.1	Toxic*substances
Division 6.2	Infectious substances

Class 7 - Radioactive materials

Class 8 - Corrosive substances

Class 9 - Miscellaneous dangerous goods/hazardous materials and articles

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

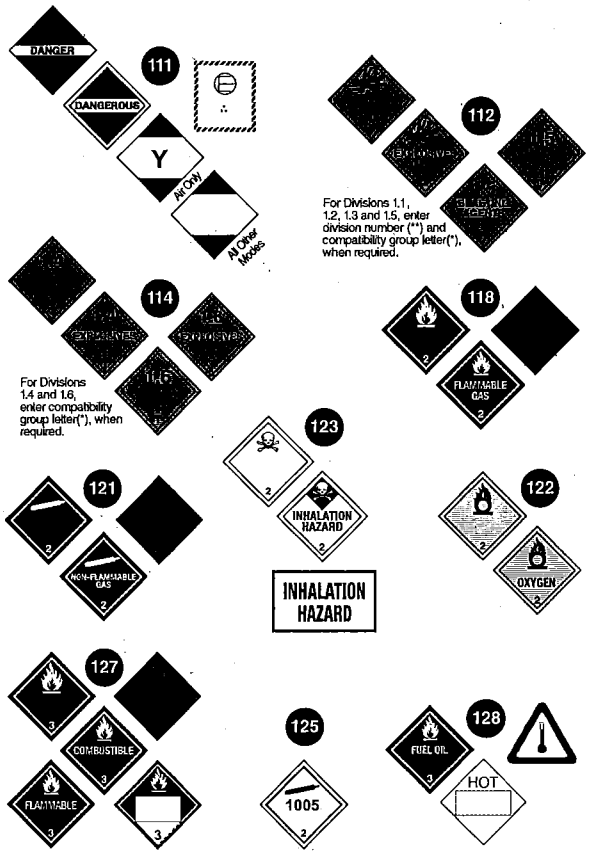
INTRODUCTION TO THE TABLE OF MARKINGS, LABELS AND PLACARDS

USE THIS TABLE ONLY WHEN THE ID NUMBER OR PROPER SHIPPING NAME IS NOT AVAILABLE.

The next two pages display the placards used on transport vehicles carrying dangerous goods with the applicable reference GUIDE circled. Follow these steps:

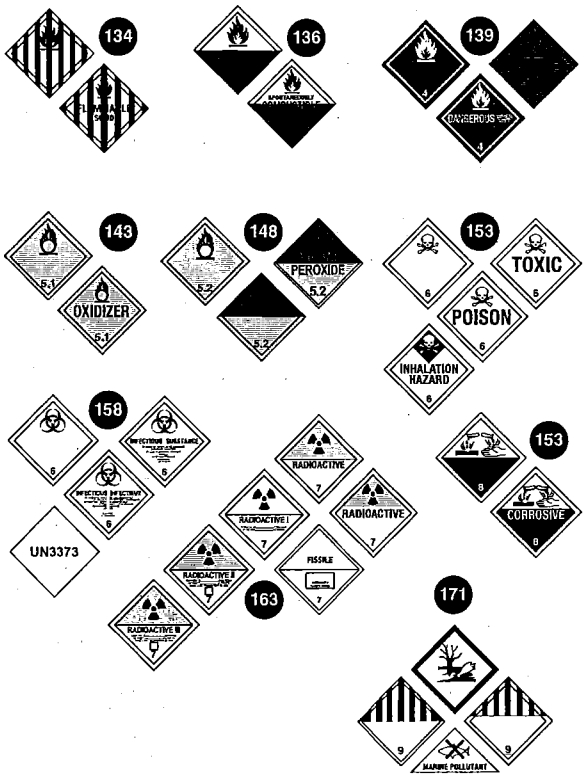
1. **Approach scene from upwind, uphill or upstream at a safe distance to safely identify and/or read the placard or orange panel. Use binoculars if available.**
2. **Match the vehicle placard(s) with one of the placards displayed on the next two pages.**
3. **Consult the circled guide number associated with the placard. Use that guide information for now. For example:**
   - Use GUIDE 127 for a FLAMMABLE (Class 3) placard 
   - Use GUIDE 153 for a CORROSIVE (Class 8) placard 
   - Use GUIDE 111 when the DANGER/DANGEROUS placard is displayed or the nature of the spilled, leaking or burning material is not known. Also use this GUIDE when the presence of dangerous goods is suspected but no placards can be seen.

   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. **Guides associated with the placards provide the most significant risk and/or hazard information.**
5. **When specific information, such as ID number or proper shipping name, becomes available, the more specific Guide recommended for that material must be consulted.**
6. **A single asterisk (*) on orange placards represent an explosive's compatibility group letter. The asterisk must be replaced with the appropriate compatibility group letter. Refer to the Glossary (page 376).**
7. **Double asterisks (**) on orange placards represent the division of the explosive. The double asterisks must be replaced with the appropriate division number.**



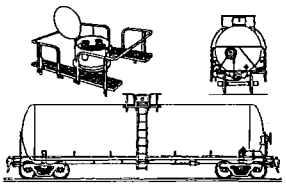
AND INITIAL RESPONSE GUIDE TO USE ON-SCENE

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



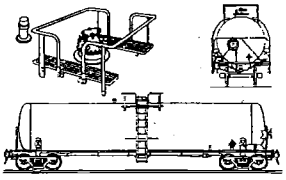
RAIL CAR IDENTIFICATION CHART*

117 Pressure tank car



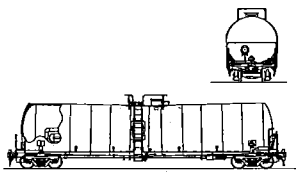
- For flammable, non-flammable, toxic and/or liquefied compressed gases
- Protective housing
- No bottom fittings
- Pressures usually above 40 psi

131 General service tank car (low pressure)



- For variety of hazardous and non-hazardous materials
- Fittings and valves normally visible at the top of the tank
- Some may have bottom outlet valve
- Pressures usually below 25 psi

128 Low pressure tank car (TC117, DOT117)

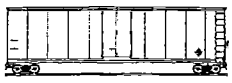


- For flammable liquids (e.g., Petroleum crude oil, ethanol)
- Protective housing separate from manway
- Bottom outlet valve
- Pressures usually below 25 psi

(Image provided as a courtesy of The Greenbrier Companies, Inc.)

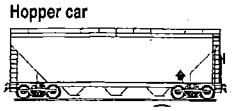
RAIL CAR IDENTIFICATION CHART*

111 Box car

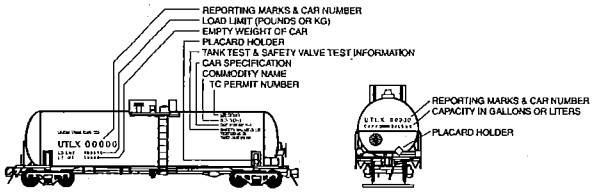


- For general freight that carry bulk or non-bulk packages
- May transport hazardous materials in small packages or "tote bins"
- Single or double sliding door

140 Hopper car



- For bulk commodities and bulk cargo (e.g., coal, ore, cement and solid granular materials)
- Bulk lading discharged by gravity through the hopper bottom doors when doors opened



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
b. the other information shown, especially reporting marks and car number which, when supplied to a dispatch center, will facilitate the identification of the product.

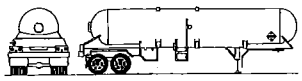
* **The recommended guides should be considered as last resort if the material cannot be identified by any other means.**

ROAD TRAILER IDENTIFICATION CHART*

WARNING: Road trailers may be jacketed, the cross-section may look different than shown and external ring stiffeners would be invisible.

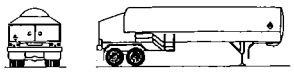
NOTE: An emergency shut-off valve is commonly found at the front of the tank, near the driver door.

117 MC331, TC331, SCT331



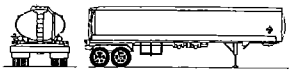
- For liquefied compressed gases (e.g., LPG, ammonia)
- Rounded heads
- Design pressure between 100-500 psi**

117 MC338, TC338, SCT338, TC341, CGA341



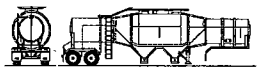
- For refrigerated liquefied gases (cryogenic liquids)
- Similar to a "giant thermo-bottle"
- Fitting compartments located in a cabinet at the rear of the tank
- MAWP between 25-500 psi**

131 DOT406, TC406, SCT306, MC306, TC306



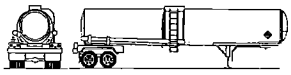
- For flammable liquids (e.g., gasoline, diesel)
- Elliptical cross-section
- Rollover protection at the top
- Bottom outlet valves
- MAWP between 3-15 psi**

112 TC423



- For emulsion and water-gel explosives
- Hopper-style configuration
- MAWP between 5-15 psi**

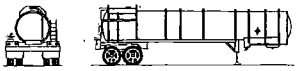
137 DOT407, TC407, SCT307, MC307, TC307



- For toxic, corrosive, and flammable liquids
- Circular cross-section
- May have external ring stiffeners
- MAWP of at least 25 psi**

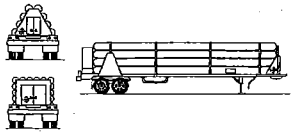
ROAD TRAILER IDENTIFICATION CHART*

137 DOT412, TC412, SCT312, MC312, TC312

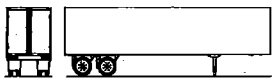


- Usually for corrosive liquids
- Circular cross-section
- External ring stiffeners
- Tank diameter is relatively small
- MAWP of at least 15 psi**

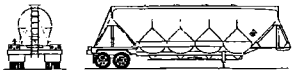
117 Compressed Gas/Tube Trailer



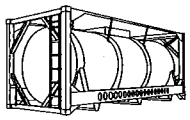
111 Mixed Cargo



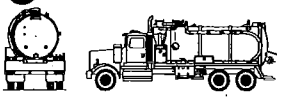
134 Dry Bulk Cargo Trailer



117 Intermodal Tank



137 Vacuum Tanker



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 the material cannot be identified by any other means.**

** **MAWP: Maximum Allowable Working Pressure.**

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELING OF CHEMICALS (GHS)

(May be found on means of containment during transport)

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) is an international guideline published by the United Nations. The GHS aims to harmonize the classification and labeling systems for all sectors involved in the life cycle of a chemical (production, storage, transport, workplace use, consumer use and presence in the environment).

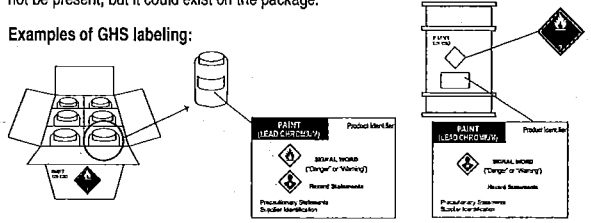
The GHS has nine symbols used to convey specific physical, health and environmental hazard information. These symbols are part of a pictogram that is diamond shaped and includes the GHS symbol in black on a white background with a red frame. The pictogram is part of the GHS label, which also includes the following information:

- **Signal word**
- **Hazard statement**
- **Precautionary statements**
- **Product identifier**
- **Supplier identification**

GHS pictograms are similar in shape to transport labels; however, transport labels have backgrounds of different colors.

The elements of the GHS that address signal words and hazard statements are not expected to be adopted in the transport sector. For substances and mixtures covered by the UN Recommendations on the Transport of Dangerous Goods, Model Regulations, the transport labels for physical hazards will have precedence. In transport, a GHS pictogram for the same (or lesser) hazard as the one reflected by the transport label or placard should not be present, but it could exist on the package.

Examples of GHS labeling:



Outer Packaging: Box with flammable liquid transport label

Inner Packaging: Plastic bottle with GHS hazard warning label

Single Packaging: 200 L (55 US gallons) drum with a flammable liquid transport label combined with GHS hazard warning label

In some cases, such as on drums or international bulk containers (IBCs), which must address information for all sectors, the GHS label may be found in addition to the required transport labels and placards. Both types of labels (GHS and transport) will differ in a way that will make them easy to identify during an emergency.

GHS Pictograms	Physical hazards	GHS Pictograms	Health and Environmental hazards
	Explosive; Self-reactive; Organic peroxide		Skin corrosion; Serious eye damage
	Flammable; Pyrophoric; Self-reactive; Organic peroxide; Self-heating; Emits flammable gases when in contact with water		Acute toxicity (harmful); Skin sensitizer; Irritant (skin and eye); Narcotic effect; Respiratory tract irritant; Hazardous to ozone layer (environment)
	Oxidizer		Respiratory sensitizer; Mutagen; Carcinogen; Reproductive toxicity; Target organ toxicity; Aspiration hazard
	Gas under pressure		Hazardous to aquatic environment
	Corrosive to metals		Acute toxicity (fatal or toxic)

HAZARD IDENTIFICATION NUMBERS DISPLAYED ON SOME INTERMODAL CONTAINERS

Hazard identification numbers, utilized under European and some South American regulations, may be found in the top half of an orange panel on some intermodal bulk containers. The United Nations 4-digit identification number is in the bottom half of the orange panel.

The hazard identification number in the top half of the orange panel consists of two or three digits. In general, the digits 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

NOTE: The risk of spontaneous violent reaction within the meaning of digit 9 includes the possibility, due to the nature of a substance, of a risk of explosion, disintegration and polymerization reaction followed by the release of considerable heat or flammable and/or toxic gases.

- Doubling of a digit indicates an intensification of that particular hazard (i.e., 33, 66, 88).
- Where the hazard associated with a substance can be adequately indicated by a single digit, the digit is followed by a zero (i.e., 30, 40, 50).
- A hazard identification number prefixed by the letter "X" indicates that the substance will react dangerously with water (i.e., X88).

HAZARD IDENTIFICATION NUMBERS DISPLAYED ON SOME INTERMODAL CONTAINERS

The hazard identification numbers listed below have the following meanings:

20	Asphyxiant gas or gas with no subsidiary risk
22	Refrigerated liquefied gas, asphyxiant
223	Refrigerated liquefied gas, flammable
225	Refrigerated liquefied gas, oxidizing (fire-intensifying)
23	Flammable gas
238	Gas, flammable corrosive
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)
268	Toxic gas, corrosive
28	Gas, corrosive
30	Flammable liquid (flash-point between 23°C and 60°C, inclusive), or flammable liquid or solid in the molten state with a flash point above 60°C, heated to a temperature equal to or above its flash point, or self-heating liquid
323	Flammable liquid which reacts with water, emitting flammable gases
X323	Flammable liquid which reacts dangerously with water, emitting flammable gases
33	Highly flammable liquid (flash-point below 23°C)
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 (flash-point between 23°C and 60°C, inclusive), slightly 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 gases
368	Flammable liquid, toxic, corrosive
38	Flammable liquid (flash-point between 23°C and 60°C, inclusive), slightly corrosive or self-heating liquid, corrosive
382	Flammable liquid, corrosive, which reacts with water, emitting flammable gases
X382	Flammable liquid, corrosive, which reacts dangerously with water, emitting flammable gases
39	Flammable liquid, which can spontaneously lead to violent reaction
40	Flammable solid, or self-reactive substance, or self-heating substance

HAZARD IDENTIFICATION NUMBERS DISPLAYED ON SOME INTERMODAL CONTAINERS

423	Solid which reacts with water, emitting flammable gases, or flammable solid which reacts with water, emitting flammable gases, or self-heating solid which reacts with water, emitting flammable gases
X423	Solid which reacts dangerously with water, emitting flammable gases, or flammable solid which reacts dangerously with water, emitting flammable gases, or self-heating solid which reacts dangerously with water, emitting flammable gases
43	Spontaneously flammable (pyrophoric) solid
X432	Spontaneously flammable (pyrophoric) solid which reacts dangerously with water, emitting flammable gases
44	Flammable solid, in the molten state at an elevated temperature
446	Flammable solid, toxic, in the molten state at an elevated temperature
46	Flammable or self-heating solid, toxic
462	Toxic solid which reacts with water, emitting flammable gases
X462	Solid which reacts dangerously with water, emitting toxic gases
48	Flammable or self-heating solid, corrosive
482	Corrosive solid which reacts with water, emitting flammable gases
X482	Solid which reacts dangerously with water, emitting corrosive gases
50	Oxidizing (fire-intensifying) substance
539	Flammable organic peroxide
55	Strongly oxidizing (fire-intensifying) substance
556	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 substance (fire-intensifying), toxic
568	Oxidizing substance (fire-intensifying), toxic, corrosive
58	Oxidizing substance (fire-intensifying), corrosive
59	Oxidizing substance (fire-intensifying) which can spontaneously lead to violent reaction
60	Toxic or slightly toxic substance
606	Infectious substance
623	Toxic liquid, which reacts with water, emitting flammable gases
63	Toxic substance, flammable (flash-point between 23°C and 60°C, inclusive)
638	Toxic substance, flammable, (flash-point between 23°C and 60°C, inclusive), corrosive
639	Toxic substance, flammable, (flash-point not above 60°C) which can spontaneously lead to violent reaction
64	Toxic solid, flammable or self-heating
642	Toxic solid which reacts with water, emitting flammable gases
65	Toxic substance, oxidizing (fire-intensifying)

HAZARD IDENTIFICATION NUMBERS DISPLAYED ON SOME INTERMODAL CONTAINERS

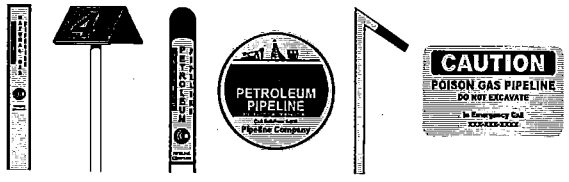
66	Highly toxic substance
663	Highly toxic substance, flammable (flash-point not above 60°C)
664	Highly toxic solid, flammable or self-heating
665	Highly toxic substance, oxidizing (fire-intensifying)
668	Highly toxic substance, corrosive
X668	Highly toxic substance, corrosive, which reacts dangerously with water
669	Highly toxic substance which can spontaneously lead to violent reaction
68	Toxic substance, corrosive
69	Toxic or slightly toxic substance which can spontaneously lead to violent reaction
70	Radioactive material
78	Radioactive material, corrosive
80	Corrosive or slightly corrosive substance
X80	Corrosive or slightly corrosive substance which reacts dangerously with water
823	Corrosive liquid which reacts with water, emitting flammable gases
83	Corrosive or slightly corrosive substance, flammable (flash-point between 23°C and 60°C, inclusive)
X83	Corrosive or slightly corrosive substance, flammable (flash-point between 23°C and 60°C, inclusive), which reacts dangerously with water
839	Corrosive or slightly corrosive substance, flammable (flash-point between 23°C and 60°C, inclusive), which can spontaneously lead to violent reaction
X839	Corrosive or slightly corrosive substance, flammable (flash-point between 23°C and 60°C, inclusive), 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 gases
85	Corrosive or slightly corrosive substance, oxidizing (fire-intensifying)
856	Corrosive or slightly corrosive substance, oxidizing (fire-intensifying) and toxic
86	Corrosive or slightly corrosive substance, toxic
88	Highly corrosive substance
X88	Highly corrosive substance which reacts dangerously with water
883	Highly corrosive substance, flammable (flash-point between 23°C and 60°C, inclusive)
884	Highly corrosive solid, flammable or self-heating
885	Highly corrosive substance, oxidizing (fire-intensifying)
886	Highly corrosive substance, toxic
X886	Highly corrosive substance, toxic, which reacts dangerously with water
89	Corrosive or slightly corrosive substance which can spontaneously lead to violent reaction
90	Environmentally hazardous substance; miscellaneous dangerous substances
99	Miscellaneous dangerous substance carried at an elevated temperature

Other Hazardous Liquids Pipelines

Some liquid pipelines transport highly volatile liquids that rapidly change from liquid to gaseous when released from a pressurized pipeline. Examples of these types of liquids include carbon dioxide, anhydrous ammonia, propane, and others.

Pipeline Markers

Since pipelines are usually buried underground, pipeline markers are used to indicate their presence in an area along the pipeline route. Of the three types of pipelines typically buried underground — distribution, gathering, and transmission — only transmission pipelines are marked with the following above-ground markers used to indicate their route.



Markers warn that a transmission pipeline is located in the area, identify the product transported in the line, and provide the name and telephone number of the pipeline operator to call. Markers and warning signs are located at frequent intervals along natural gas and liquid transmission pipeline rights-of-way, and are located at prominent points such as where pipelines intersect streets, highways, railways, or waterways.

Pipeline markers only indicate the presence of a pipeline—they do not indicate the exact location of the pipeline. Pipeline locations within a right-of-way may vary along its length and there may be multiple pipelines located in the same right-of-way.

NOTE:

- Markers for pipelines transporting materials containing dangerous levels of hydrogen sulfide (H_2S) may have markers that say: "Sour" or "Poison."
- Natural gas distribution pipelines are not marked with above-ground signs.
- Gathering/production pipelines are often not marked with above-ground signs.

PIPELINE TRANSPORTATION

In North America, hazardous materials are commonly transported through millions of miles of pipelines and related structures. Products transported include natural gas, natural gas liquids, crude oil, gasoline, diesel fuel, anhydrous ammonia, carbon dioxide, jet fuel, and other commodities. Although most pipelines are buried, often there are above-ground structures and markers indicating the presence of pipelines. First responders should be aware of the pipelines in their jurisdictions, the products they transport, and the operators responsible for those pipelines. Proactive relationships can be beneficial in the safe and effective management of pipeline emergencies.

Types of Pipelines

Natural Gas Pipelines

Natural Gas Transmission Pipelines

Large-diameter, steel pipelines transport flammable natural gas (toxic and non-toxic) at very high pressures ranging from 200 to 1,500 psi*. Natural gas in transmission pipelines is odorless — generally *not odorized* with mercaptan (the "rotten egg" smell); however, natural gas containing hydrogen sulfide (H_2S) *will* have a distinct "rotten egg" odor.

Natural Gas Distribution Pipelines

Natural gas is delivered directly to customers via distribution pipelines. These pipelines are typically smaller-diameter, lower-pressure pipelines constructed of steel, plastic, or cast iron. Natural gas in distribution pipelines *is odorized* with mercaptan (the "rotten egg" smell).

Natural Gas-Gathering and Natural Gas Well Production Pipelines

Natural gas-gathering/well production pipelines collect "raw" natural gas from wellheads and transport the product to gas-processing and/or gas-treating plants. These gathering pipelines carry natural gas mixed with some quantity of gas liquids, water, and, in some areas, contaminants such as toxic hydrogen sulfide (H_2S). Natural gas in these pipelines is *not odorized* with mercaptan (the "rotten egg" smell); however, natural gas that contains hydrogen sulfide (H_2S) will have a distinct "rotten egg" odor.

Liquid Petroleum and Hazardous Liquids Pipelines

Liquid Petroleum Pipelines

Crude oil, refined petroleum products, and hazardous liquids often are transported by pipelines and include gasoline, jet fuels, diesel fuel, home heating oils, carbon dioxide, anhydrous ammonia, and other hazardous liquids.

Many liquid petroleum pipelines transport different types of liquid petroleum in the same pipeline. To do so, the pipeline operator sends different products in "batches." For example, an operator could send gasoline for several hours, and then switch to jet fuels, before switching to diesel fuel.

* Data from http://naturalgas.org/naturalgas/transport/

Pipeline Structures (Above Ground)

Natural Gas Transmission Pipelines:	Compressor stations, valves, metering stations.
Natural Gas Distribution Pipelines:	Regulator stations, customer meters and regulators, valve box covers.
Natural Gas Gathering/Well Production Pipelines:	Compressor stations, valves, metering stations, wellheads, piping, manifolds.
Petroleum and Hazardous Liquids Pipelines:	Storage tanks, valves, pump stations, loading racks.

Indications of Pipeline Leaks and Ruptures

Pipeline releases can range from relatively minor leaks to catastrophic ruptures. It is important to remember that gases and liquids behave differently once they are released from a pipeline. Generally, the following could be indications of a pipeline leak or rupture:

- Hissing, roaring, or explosive sound
- Flames appearing from the ground or water (perhaps very large flames)
- Vapor cloud/fog/mist
- Dirt/debris/water blowing out of the ground
- Liquids bubbling up from the ground or bubbling in water
- Distinctive, unusually strong odor of rotten eggs, skunk, or petroleum
- Discolored/dead vegetation or discolored snow above a pipeline right-of-way
- Oil slick or sheen on flowing/standing water

General Considerations for Responding to a Pipeline Emergency

- **Safety First!** Your safety and the safety of the community you protect is top priority. Remember to approach a pipeline incident from upwind, uphill, and upstream while using air monitoring equipment to detect for the presence of explosive and/or toxic levels of hazardous materials.
  - **Always** wear proper personal protective equipment. Be prepared for a flash fire. Use shielding to protect first responders in the event of an explosion. Use respiratory protection.
  - **Never** operate pipeline valves (except in coordination with the pipeline operator); this could make the incident worse and put you and others in danger.
  - **Never** attempt to extinguish a pipeline fire before supply is shut off; this could result in the accumulation of a large flammable/explosive vapor cloud or liquid pool that could make the incident worse and put you and others in danger.
  - **Do not** enter a vapor cloud in an attempt to identify the product(s) involved.
- **Secure the site** and determine a plan to evacuate or shelter-in-place. Work with other responders to deny entry to an area.
- **Identify the product and the operator.** If safe to do so, you may be able to identify the product based on its characteristics or other external clues. Look for pipeline markers indicating the product, operator of the pipeline, and their emergency contact information. Pipelines transport many different types of products, including gases, liquids, and highly volatile liquids that are in a liquid state inside the pipeline but in a gaseous state if released from the pipeline. The vapor density of gases determines if they rise or sink in air. Viscosity and specific gravity also are important characteristics of hazardous liquids to consider. Identification of the product also will help you determine the appropriate distance for isolation of the affected area.
- **Notify the pipeline operator** using the emergency contact information on the pipeline marker or other contact information you may have received from the pipeline operator. The pipeline operator will be a resource to you in the response.
- **Establish a command post.** Implement the Incident Command Structure, as needed, and be prepared to implement a Unified Command as additional stakeholders and resources arrive.

Other Important Considerations

- If no flames are present, do not introduce ignition sources such as open flames, running vehicles, or electrical equipment (cell phones, pagers, two-way radios, lights, garage door openers, fans, door bells, etc.).
- Abandon any equipment used in or near the area of the pipeline release.
- If there is no risk to your safety or the safety of others, move far enough away from any noise coming from the pipeline to allow for normal conversation.
- Pipelines often are close to other public utilities, railroads, and highways; these can be impacted by pipeline releases or may be potential ignition sources.
- Natural gas can migrate underground from the source of a release to other areas via the path of least resistance (including through sewers, water lines, and geologic formations).

Considerations for Establishing Protective Action Distances

- Type of product
  - If you know the material involved, identify the three-digit guide number by looking up the name in the alphabetical list (blue-bordered pages), then using the three-digit guide number, consult the recommendations in the assigned guide.
- Pressure and diameter of pipe (the pipeline operator can tell you this if you don't already know it)
- Timing of valve closure by the pipeline operator (quickly for automated valves; longer for manually operated valves)
- Dissipation time of the product in the pipeline once valves are closed
- Ability to conduct atmospheric monitoring and/or air sampling
- Weather (wind direction, etc.)
- Local variables such as topography, population density, demographics, and fire suppression methods available
- Nearby building construction material/density
- Natural and man-made barriers (such as highways, railroads, rivers, etc.)

U.S. Pipeline Resources

U.S. Pipeline Locations: The National Pipeline Mapping System (NPMS) *http://www.npms.phmsa.dot.gov* indicates the general locations of hazardous liquids and natural gas transmission pipelines found within the U.S. The pipelines depicted in the NPMS are within 500 feet of their actual locations. Emergency responders may apply for an NPMS web viewer account that will allow access to more detailed information than is available to the general public. The NPMS does not contain gathering/production or natural gas distribution pipelines.

U.S. Pipeline Emergency Response Training: Where appropriate, reference Pipeline Emergencies training materials, produced by PHMSA and the National Association of State Fire Marshals (NASFM). This training guide is available at *http://www.pipelineemergencies.com* and *http://nasfm-training.org/pipeline* and offers a thorough overview of U.S. pipeline operations and emergency response considerations. Your state or jurisdiction also may provide training on how to handle the response to a pipeline incident.

Other Resources:

Pipeline Association for Public Awareness *http://www.pipelineawareness.org/*

U.S. DOT, Pipeline and Hazardous Materials Safety Administration *http://phmsa.dot.gov/pipeline*

Pipeline 101 *http://pipeline101.com/*

Canadian Pipeline Resources

Canadian Pipeline Locations: The Canadian Energy Pipeline Association (CEPA) provides the general locations of natural gas and liquid pipelines found within Canada.

http://www.cepa.com/library/maps

GREEN HIGHLIGHTED ENTRIES IN YELLOW PAGES

For entries highlighted in green follow these steps:

- **IF THERE IS NO FIRE:**
  - Go directly to **Table 1** (green bordered pages)
  - Look up the ID number and name of material
  - Identify initial isolation and protective action distances
- **IF A FIRE IS INVOLVED:**
  - Also consult the assigned orange guide
  - If applicable, apply the evacuation information shown under PUBLIC SAFETY

Note 1: If the name in **Table 1** is shown with ***"(when spilled in water)"***, these materials produce large amounts of Toxic Inhalation Hazard (TIH) (PIH in the US) gases when spilled in water. Some Water Reactive materials are also TIH materials themselves (e.g., Bromine trifluoride (UN1746), Thionyl chloride (UN1836), etc.). In these instances, two entries are provided in **Table 1** for land-based and water-based spills. If the Water Reactive material **is NOT** a TIH and this material **is NOT** spilled in water, **Table 1** and **Table 2 do NOT** apply and safety distances will be found within the appropriate orange guide.

Note 2: **Explosives** are not individually listed by their ID number because in an emergency situation, the response will be based only on the division of the explosive, not on the individual explosive.

For divisions 1.1, 1.2, 1.3 and 1.5, refer to GUIDE 112.

For divisions 1.4 and 1.6, refer to GUIDE 114.

ID No.	Guide No.	Name of Material
——	112	Ammonium nitrate-fuel oil mixtures
——	158	Biological agents
——	112	Blasting agent, n.o.s.
——	112	Explosives, division 1.1, 1.2, 1.3 or 1.5
——	114	Explosives, division 1.4 or 1.6
——	153	Toxins
1001	116	Acetylene, dissolved
1002	122	Air, compressed
1003	122	Air, refrigerated liquid (cryogenic liquid)
1003	122	Air, refrigerated liquid (cryogenic liquid), non-pressurized
[illegible]		
[illegible]		
1006	121	Argon
1006	121	Argon, compressed
[illegible]		
[illegible]		
1009	126	Bromotrifluoromethane
1009	126	Refrigerant gas R-13B1
1010	116P	Butadienes, stabilized
1010	116P	Butadienes and hydrocarbon mixture, stabilized
1010	116P	Hydrocarbon and butadienes mixture, stabilized
1011	115	Butane
1012	115	Butylene
1013	120	Carbon dioxide
1013	120	Carbon dioxide, compressed
1014	122	Carbon dioxide and Oxygen mixture, compressed
1014	122	Oxygen and Carbon dioxide mixture, compressed
1015	126	Carbon dioxide and Nitrous oxide mixture
1015	126	Nitrous oxide and Carbon dioxide mixture
[illegible]		
[illegible]		
[illegible]		
1018	126	Chlorodifluoromethane
1018	126	Refrigerant gas R-22
1020	126	Chloropentafluoroethane
1020	126	Refrigerant gas R-115
1021	126	1-Chloro-1,2,2,2-tetrafluoroethane
1021	126	Refrigerant gas R-124
1022	126	Chlorotrifluoromethane
1022	126	Refrigerant gas R-13
1023	119	Coal gas
1023	119	Coal gas, compressed
[illegible]		
1027	115	Cyclopropane
1028	126	Dichlorodifluoromethane
1028	126	Refrigerant gas R-12
1029	126	Dichlorofluoromethane
1029	126	Refrigerant gas R-21
1030	115	1,1-Difluoroethane
1030	115	Refrigerant gas R-152a
1032	118	Dimethylamine, anhydrous
1033	115	Dimethyl ether
1035	115	Ethane
1035	115	Ethane, compressed
1036	118	Ethylamine

ID No.	Guide No.	Name of Material
1037	115	Ethyl chloride
1038	115	Ethylene, refrigerated liquid (cryogenic liquid)
1039	115	Ethyl methyl ether
1039	115	Methyl ethyl ether
[illegible]		
[illegible]		
1041	115	Carbon dioxide and Ethylene oxide mixture, with more than 9% but not more than 87% Ethylene oxide
1041	115	Ethylene oxide and Carbon dioxide mixture, with more than 9% but not more than 87% Ethylene oxide
1043	125	Fertilizer, ammoniating solution, with free Ammonia
1044	126	Fire extinguishers with compressed gas
1044	126	Fire extinguishers with liquefied gas
[illegible]		
[illegible]		
1046	121	Helium
1046	121	Helium, compressed
[illegible]		
1049	115	Hydrogen
1049	115	Hydrogen, compressed
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
1055	115	Isobutylene
1056	121	Krypton
1056	121	Krypton, compressed
1057	115	Lighter refills (cigarettes) (flammable gas)
1057	115	Lighters (cigarettes) (flammable gas)
1057	128	Lighters, non-pressurized, containing flammable liquid
1058	120	Liquefied gases, non-flammable, charged with Nitrogen, Carbon dioxide or Air
1060	116P	Methylacetylene and Propadiene mixture, stabilized
1060	116P	Propadiene and Methylacetylene mixture, stabilized
[illegible]		
[illegible]		
1063	115	Methyl chloride
1063	115	Refrigerant gas R-40
[illegible]		
1065	121	Neon
1065	121	Neon, compressed
1066	121	Nitrogen
1066	121	Nitrogen, compressed
[illegible]		
[illegible]		
[illegible]		
1070	122	Nitrous oxide

ID No.	Guide No.	Name of Material
1070	122	Nitrous oxide, compressed
1071	119	Oil gas
1071	119	Oil gas, compressed
1072	122	Oxygen
1072	122	Oxygen, compressed
1073	122	Oxygen, refrigerated liquid (cryogenic liquid)
1075	115	Butane
1075	115	Butylene
1075	115	Isobutane
1075	115	Isobutylene
1075	115	Liquefied petroleum gas
1075	115	LPG
1075	115	Petroleum gases, liquefied
1075	115	Propane
1075	115	Propylene
[illegible]		
[illegible]		
[illegible]		
1077	115	Propylene
1078	126	Dispersant gas, n.o.s.
1078	126	Refrigerant gas, n.o.s.
[illegible]		
[illegible]		
1080	126	Sulfur hexafluoride
1080	126	Sulphur hexafluoride
1081	116P	Tetrafluoroethylene, stabilized
[illegible]		
[illegible]		
1083	118	Trimethylamine, anhydrous
1085	116P	Vinyl bromide, stabilized
1086	116P	Vinyl chloride, stabilized
1087	116P	Vinyl methyl ether, stabilized
1088	127	Acetal
1089	129P	Acetaldehyde
1090	127	Acetone
1091	127	Acetone oils
[illegible]		
[illegible]		
[illegible]		
1099	131	Allyl bromide
1100	131	Allyl chloride
1104	129	Amyl acetates
1105	129	Pentanols
1106	132	Amylamine
1107	129	Amyl chloride
1108	128	n-Amylene
1108	128	1-Pentene
1109	129	Amyl formates
1110	127	n-Amyl methyl ketone
1110	127	Methyl amyl ketone
1111	130	Amyl mercaptan
1112	140	Amyl nitrate
1113	129	Amyl nitrite
1114	130	Benzene
1120	129	Butanols
1123	129	Butyl acetates
1125	132	n-Butylamine
1126	130	1-Bromobutane
1126	130	n-Butyl bromide
1127	130	n-Butyl chloride
1127	130	Chlorobutanes

ID No.	Guide No.	Name of Material
1128	129	n-Butyl formate
1129	129	Butyraldehyde
1130	128	Camphor oil
1131	131	Carbon bisulfide
1131	131	Carbon bisulphide
1131	131	Carbon disulfide
1131	131	Carbon disulphide
1133	128	Adhesives (flammable)
1134	130	Chlorobenzene
[illegible]		
1136	128	Coal tar distillates, flammable
1139	127	Coating solution
[illegible]		
[illegible]		
1144	128	Crotonylene
1145	128	Cyclohexane
1146	128	Cyclopentane
1147	130	Decahydronaphthalene
1148	129	Diacetone alcohol
1149	128	Butyl ethers
1149	128	Dibutyl ethers
1150	130P	1,2-Dichloroethylene
1152	130	Dichloropentanes
1153	127	Ethylene glycol diethyl ether
1154	132	Diethylamine
1155	127	Diethyl ether
1155	127	Ethyl ether
1156	127	Diethyl ketone
1157	128	Diisobutyl ketone
1158	132	Diisopropylamine
1159	127	Diisopropyl ether
1160	132	Dimethylamine, aqueous solution
1160	132	Dimethylamine, solution
1161	129	Dimethyl carbonate
[illegible]		
[illegible]		
[illegible]		
1164	130	Dimethyl sulfide
1164	130	Dimethyl sulphide
1165	127	Dioxane
1166	127	Dioxolane
1167	128P	Divinyl ether, stabilized
1169	127	Extracts, aromatic, liquid
1170	127	Ethanol
1170	127	Ethanol, solution
1170	127	Ethyl alcohol
1170	127	Ethyl alcohol, solution
1171	127	Ethylene glycol monoethyl ether
1172	129	Ethylene glycol monoethyl ether acetate
1173	129	Ethyl acetate
1175	130	Ethylbenzene
1176	129	Ethyl borate
1177	130	2-Ethylbutyl acetate
1177	130	Ethylbutyl acetate
1178	130	2-Ethylbutyraldehyde
1179	127	Ethyl butyl ether
1180	130	Ethyl butyrate
1181	155	Ethyl chloroacetate
[illegible]		
[illegible]		

ID No.	Guide No.	Name of Material
1184	131	Ethylene dichloride
[illegible]		
1188	127	Ethylene glycol monomethyl ether
1189	129	Ethylene glycol monomethyl ether acetate
1190	129	Ethyl formate
1191	129	Ethylhexaldehydes
1191	129	Octyl aldehydes
1192	129	Ethyl lactate
1193	127	Ethyl methyl ketone
1193	127	Methyl ethyl ketone
1194	131	Ethyl nitrite, solution
1195	129	Ethyl propionate
[illegible]		
1197	127	Extracts, flavoring, liquid
1197	127	Extracts, flavouring, liquid
1198	132	Formaldehyde, solution, flammable
1198	132	Formalin (flammable)
1199	132P	Furaldehydes
1199	132P	Furfural
1199	132P	Furfuraldehydes
1201	127	Fusel oil
1202	128	Diesel fuel
1202	128	Fuel oil
1202	128	Gas oil
1202	128	Heating oil, light
1203	128	Gasohol
1203	128	Gasoline
1203	128	Motor spirit
1203	128	Petrol

ID No.	Guide No.	Name of Material
1204	127	Nitroglycerin, solution in alcohol, with not more than 1% Nitroglycerin
1206	128	Heptanes
1207	130	Hexaldehyde
1208	128	Hexanes
1208	128	Neohexane
1210	129	Ink, printer's, flammable
1210	129	Printing ink, flammable
1210	129	Printing ink related material
1212	129	Isobutanol
1212	129	Isobutyl alcohol
1213	129	Isobutyl acetate
1214	132	Isobutylamine
1216	128	Isooctenes
1218	130P	Isoprene, stabilized
1219	129	Isopropanol
1219	129	Isopropyl alcohol
1220	129	Isopropyl acetate
1221	132	Isopropylamine
1222	130	Isopropyl nitrate
1223	128	Kerosene
1224	127	Ketones, liquid, n.o.s.
1228	131	Mercaptan mixture, liquid, flammable, poisonous, n.o.s.
1228	131	Mercaptan mixture, liquid, flammable, toxic, n.o.s.
1228	131	Mercaptans, liquid, flammable, poisonous, n.o.s.
1228	131	Mercaptans, liquid, flammable, toxic, n.o.s.
1229	129	Mesityl oxide
1230	131	Methanol
1230	131	Methyl alcohol

ID No.	Guide No.	Name of Material
1231	129	Methyl acetate
1233	130	Methylamyl acetate
1234	127	Methylal
1235	132	Methylamine, aqueous solution
1237	129	Methyl butyrate
[illegible]		
[illegible]		
[illegible]		
1243	129	Methyl formate
[illegible]		
1245	127	Methyl isobutyl ketone
1246	127P	Methyl isopropenyl ketone, stabilized
1247	129P	Methyl methacrylate monomer, stabilized
1248	129	Methyl propionate
1249	127	Methyl propyl ketone
[illegible]		
[illegible]		
[illegible]		
1261	129	Nitromethane
1262	128	Isooctane
1262	128	Octanes
1263	128	Paint (flammable)
1263	128	Paint related material (flammable)
1264	129	Paraldehyde
1265	128	Isopentane
1265	128	Pentanes
1266	127	Perfumery products, with flammable solvents
1267	128	Petroleum crude oil
1268	128	Petroleum distillates, n.o.s.

ID No.	Guide No.	Name of Material
1268	128	Petroleum products, n.o.s.
1270	128	Oil, petroleum
1270	128	Petroleum oil
1272	129	Pine oil
1274	129	n-Propanol
1274	129	Propyl alcohol, normal
1275	129	Propionaldehyde
1276	129	n-Propyl acetate
1277	132	Propylamine
1278	129	1-Chloropropane
1278	129	Propyl chloride
1279	130	1,2-Dichloropropane
1280	127P	Propylene oxide
1281	129	Propyl formates
1282	129	Pyridine
1286	127	Rosin oil
1287	127	Rubber solution
1288	128	Shale oil
1289	132	Sodium methylate, solution in alcohol
1292	129	Ethyl silicate
1292	129	Tetraethyl silicate
1293	127	Tinctures, medicinal
1294	130	Toluene
[illegible]		
1296	132	Triethylamine
1297	132	Trimethylamine, aqueous solution
[illegible]		
1299	128	Turpentine
1300	128	Turpentine substitute
1301	129P	Vinyl acetate, stabilized

ID No.	Guide No.	Name of Material
1302	127P	Vinyl ethyl ether, stabilized
1303	130P	Vinylidene chloride, stabilized
1304	127P	Vinyl isobutyl ether, stabilized
[illegible]		
[illegible]		
1306	129	Wood preservatives, liquid
1307	130	Xylenes
1308	170	Zirconium suspended in a flammable liquid
1308	170	Zirconium suspended in a liquid (flammable)
1309	170	Aluminum powder, coated
1310	113	Ammonium picrate, wetted with not less than 10% water
1312	133	Borneol
1313	133	Calcium resinate
1314	133	Calcium resinate, fused
1318	133	Cobalt resinate, precipitated
1320	113	Dinitrophenol, wetted with not less than 15% water
1321	113	Dinitrophenolates, wetted with not less than 15% water
1322	113	Dinitroresorcinol, wetted with not less than 15% water
1323	170	Ferrocerium
1324	133	Films, nitrocellulose base
1325	133	Flammable solid, organic, n.o.s.
1325	133	Fusee (rail or highway)
1326	170	Hafnium powder, wetted with not less than 25% water
1327	133	Bhusa, wet, damp or contaminated with oil
1327	133	Hay, wet, damp or contaminated with oil

ID No.	Guide No.	Name of Material
1327	133	Straw, wet, damp or contaminated with oil
1328	133	Hexamethylenetetramine
1330	133	Manganese resinate
1331	133	Matches, "strike anywhere"
1332	133	Metaldehyde
1333	170	Cerium, slabs, ingots or rods
1334	133	Naphthalene, crude
1334	133	Naphthalene, refined
1336	113	Nitroguanidine, wetted with not less than 20% water
1336	113	Picrite, wetted with not less than 20% water
1337	113	Nitrostarch, wetted with not less than 20% water
1338	133	Phosphorus, amorphous
1338	133	Red phosphorus
1339	139	Phosphorus heptasulfide, free from yellow and white Phosphorus
1339	139	Phosphorus heptasulphide, free from yellow and white Phosphorus
[illegible]		
[illegible]		
1341	139	Phosphorus sesquisulfide, free from yellow and white Phosphorus
1341	139	Phosphorus sesquisulphide, free from yellow and white Phosphorus
1343	139	Phosphorus trisulfide, free from yellow and white Phosphorus

ID No.	Guide No.	Name of Material
1343	139	Phosphorus trisulphide, free from yellow and white Phosphorus
1344	113	Picric acid, wetted with not less than 30% water
1344	113	Trinitrophenol, wetted with not less than 30% water
1345	133	Rubber scrap, powdered or granulated
1345	133	Rubber shoddy, powdered or granulated
1346	170	Silicon powder, amorphous
1347	113	Silver picrate, wetted with not less than 30% water
1348	113	Sodium dinitro-o-cresolate, wetted with not less than 15% water
1349	113	Sodium picramate, wetted with not less than 20% water
1350	133	Sulfur
1350	133	Sulphur
1352	170	Titanium powder, wetted with not less than 25% water
1353	133	Fabrics impregnated with weakly nitrated Nitrocellulose, n.o.s.
1353	133	Fibers impregnated with weakly nitrated Nitrocellulose, n.o.s.
1353	133	Fibres impregnated with weakly nitrated Nitrocellulose, n.o.s.
1354	113	Trinitrobenzene, wetted with not less than 30% water
1355	113	Trinitrobenzoic acid, wetted with not less than 30% water
1356	113	TNT, wetted with not less than 30% water
1356	113	Trinitrotoluene, wetted with not less than 30% water

ID No.	Guide No.	Name of Material
1357	113	Urea nitrate, wetted with not less than 20% water
1358	170	Zirconium powder, wetted with not less than 25% water
[illegible]		
1361	133	Carbon, animal or vegetable origin
1361	133	Charcoal
1362	133	Carbon, activated
1363	135	Copra
1364	133	Cotton waste, oily
1365	133	Cotton
1365	133	Cotton, wet
1366	135	Diethylzinc
1369	135	p-Nitrosodimethylaniline
1370	135	Dimethylzinc
1372	133	Fibers, animal or vegetable, burnt, wet or damp
1372	133	Fibres, animal or vegetable, burnt, wet or damp
1373	133	Fabrics, animal or vegetable or synthetic, n.o.s. with oil
1373	133	Fibers, animal or vegetable or synthetic, n.o.s. with oil
1373	133	Fibres, animal or vegetable or synthetic, n.o.s. with oil
1374	133	Fish meal, unstabilized
1374	133	Fish scrap, unstabilized
1376	135	Iron oxide, spent
1376	135	Iron sponge, spent
1378	170	Metal catalyst, wetted
1379	133	Paper, unsaturated oil treated
[illegible]		
1381	136	Phosphorus, white, dry or under water or in solution

ID No.	Guide No.	Name of Material
1381	136	Phosphorus, yellow, dry or under water or in solution
1381	136	White phosphorus, dry
1381	136	White phosphorus, in solution
1381	136	White phosphorus, under water
1381	136	Yellow phosphorus, dry
1381	136	Yellow phosphorus, in solution
1381	136	Yellow phosphorus, under water
1382	135	Potassium sulfide, anhydrous
1382	135	Potassium sulfide, with less than 30% water of crystallization
1382	135	Potassium sulphide, anhydrous
1382	135	Potassium sulphide, with less than 30% water of crystallization
1383	135	Aluminum powder, pyrophoric
1383	135	Pyrophoric alloy, n.o.s.
1383	135	Pyrophoric metal, n.o.s.
[illegible]		
[illegible]		
[illegible]		
1385	135	Sodium sulfide, anhydrous
1385	135	Sodium sulfide, with less than 30% water of crystallization
1385	135	Sodium sulphide, anhydrous
1385	135	Sodium sulphide, with less than 30% water of crystallization
1386	135	Seed cake, with more than 1.5% oil and not more than 11% moisture
1387	133	Wool waste, wet
1389	138	Alkali metal amalgam
1389	138	Alkali metal amalgam, liquid
1390	139	Alkali metal amides
1391	138	Alkali metal dispersion
1391	138	Alkaline earth metal dispersion
1392	138	Alkaline earth metal amalgam
1392	138	Alkaline earth metal amalgam, liquid
1393	138	Alkaline earth metal alloy, n.o.s.
1394	138	Aluminum carbide
1395	139	Aluminum ferrosilicon powder
1396	138	Aluminum powder, uncoated
[illegible]		
1398	138	Aluminum silicon powder, uncoated
1400	138	Barium
1401	138	Calcium
1402	138	Calcium carbide
1403	138	Calcium cyanamide, with more than 0.1% Calcium carbide
1404	138	Calcium hydride
1405	138	Calcium silicide
1407	138	Caesium
1407	138	Cesium
1408	139	Ferrosilicon
1409	138	Metal hydrides, water-reactive, n.o.s.
1410	138	Lithium aluminum hydride
1411	138	Lithium aluminum hydride, ethereal
1413	138	Lithium borohydride
1414	138	Lithium hydride
1415	138	Lithium
1417	138	Lithium silicon
1418	138	Magnesium alloys powder
1418	138	Magnesium powder

ID No.	Guide No.	Name of Material
[illegible]		
1420	138	Potassium, metal alloys
1420	138	Potassium, metal alloys, liquid
1421	138	Alkali metal alloy, liquid, n.o.s.
1422	138	Potassium sodium alloys
1422	138	Potassium sodium alloys, liquid
1422	138	Sodium potassium alloys
1422	138	Sodium potassium alloys, liquid
1423	138	Rubidium
1423	138	Rubidium metal
1426	138	Sodium borohydride
1427	138	Sodium hydride
1428	138	Sodium
1431	138	Sodium methylate
1431	138	Sodium methylate, dry
[illegible]		
1433	139	Stannic phosphides
1435	138	Zinc ashes
1435	138	Zinc dross
1435	138	Zinc residue
1435	138	Zinc skimmings
1436	138	Zinc dust
1436	138	Zinc powder
1437	138	Zirconium hydride
1438	140	Aluminum nitrate
1439	141	Ammonium dichromate
1442	143	Ammonium perchlorate
1444	140	Ammonium persulfate
1444	140	Ammonium persulphate
1445	141	Barium chlorate
1445	141	Barium chlorate, solid
1446	141	Barium nitrate
1447	141	Barium perchlorate
1447	141	Barium perchlorate, solid
1448	141	Barium permanganate
1449	141	Barium peroxide
1450	141	Bromates, inorganic, n.o.s.
1451	140	Caesium nitrate
1451	140	Cesium nitrate
1452	140	Calcium chlorate
1453	140	Calcium chlorite
1454	140	Calcium nitrate
1455	140	Calcium perchlorate
1456	140	Calcium permanganate
1457	140	Calcium peroxide
1458	140	Borate and Chlorate mixture
1458	140	Chlorate and Borate mixture
1459	140	Chlorate and Magnesium chloride mixture
1459	140	Chlorate and Magnesium chloride mixture, solid
1459	140	Magnesium chloride and Chlorate mixture
1459	140	Magnesium chloride and Chlorate mixture, solid
1461	140	Chlorates, inorganic, n.o.s.
1462	143	Chlorites, inorganic, n.o.s.
1463	141	Chromium trioxide, anhydrous
1465	140	Didymium nitrate
1466	140	Ferric nitrate
1467	143	Guanidine nitrate
1469	141	Lead nitrate
1470	141	Lead perchlorate

ID No.	Guide No.	Name of Material
1470	141	Lead perchlorate, solid
1471	140	Lithium hypochlorite, dry
1471	140	Lithium hypochlorite mixture
1471	140	Lithium hypochlorite mixtures, dry
1472	143	Lithium peroxide
1473	140	Magnesium bromate
1474	140	Magnesium nitrate
1475	140	Magnesium perchlorate
1476	140	Magnesium peroxide
1477	140	Nitrates, inorganic, n.o.s.
1479	140	Oxidizing solid, n.o.s.
1481	140	Perchlorates, inorganic, n.o.s.
1482	140	Permanganates, inorganic, n.o.s.
1483	140	Peroxides, inorganic, n.o.s.
1484	140	Potassium bromate
1485	140	Potassium chlorate
1486	140	Potassium nitrate
1487	140	Potassium nitrate and Sodium nitrite mixture
1487	140	Sodium nitrite and Potassium nitrate mixture
1488	140	Potassium nitrite
1489	140	Potassium perchlorate
1490	140	Potassium permanganate
1491	144	Potassium peroxide
1492	140	Potassium persulfate
1492	140	Potassium persulphate
1493	140	Silver nitrate
1494	141	Sodium bromate
1495	140	Sodium chlorate
1496	143	Sodium chlorite
1498	140	Sodium nitrate
1499	140	Potassium nitrate and Sodium nitrate mixture
1499	140	Sodium nitrate and Potassium nitrate mixture
1500	140	Sodium nitrite
1502	140	Sodium perchlorate
1503	140	Sodium permanganate
1504	144	Sodium peroxide
1505	140	Sodium persulfate
1505	140	Sodium persulphate
1506	143	Strontium chlorate
1507	140	Strontium nitrate
1508	140	Strontium perchlorate
1509	143	Strontium peroxide
[illegible]		
1511	140	Urea hydrogen peroxide
1512	140	Zinc ammonium nitrite
1513	140	Zinc chlorate
1514	140	Zinc nitrate
1515	140	Zinc permanganate
1516	143	Zinc peroxide
1517	113	Zirconium picramate, wetted with not less than 20% water
[illegible]		
1544	151	Alkaloids, solid, n.o.s. (poisonous)
1544	151	Alkaloid salts, solid, n.o.s. (poisonous)
1545	155	Allyl isothiocyanate, stabilized
1546	151	Ammonium arsenate
1547	153	Aniline
1548	153	Aniline hydrochloride

ID No.	Guide No.	Name of Material
1549	157	Antimony compound, inorganic, solid, n.o.s.
1550	151	Antimony lactate
1551	151	Antimony potassium tartrate
1553	154	Arsenic acid, liquid
1554	154	Arsenic acid, solid
1555	151	Arsenic bromide
1556	152	Arsenic compound, liquid, n.o.s.
1556	152	Arsenic compound, liquid, n.o.s., inorganic
[illegible]		
[illegible]		
[illegible]		
1557	152	Arsenic compound, solid, n.o.s.
1557	152	Arsenic compound, solid, n.o.s., inorganic
1558	152	Arsenic
1559	151	Arsenic pentoxide
[illegible]		
[illegible]		
1561	151	Arsenic trioxide
1562	152	Arsenical dust
1564	154	Barium compound, n.o.s.
1565	157	Barium cyanide
1566	154	Beryllium compound, n.o.s.
1567	134	Beryllium powder
[illegible]		
1570	152	Brucine
1571	113	Barium azide, wetted with not less than 50% water
1572	151	Cacodylic acid
1573	151	Calcium arsenate
1574	151	Calcium arsenate and Calcium arsenite mixture, solid
1574	151	Calcium arsenite and Calcium arsenate mixture, solid
1575	157	Calcium cyanide
1577	153	Chlorodinitrobenzenes, liquid
1577	153	Chlorodinitrobenzenes, solid
1577	153	Dinitrochlorobenzenes
1578	152	Chloronitrobenzenes
1578	152	Chloronitrobenzenes, solid
1579	153	4-Chloro-o-toluidine hydrochloride
1579	153	4-Chloro-o-toluidine hydrochloride, solid
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
1585	151	Copper acetoarsenite
1586	151	Copper arsenite
1587	151	Copper cyanide
1588	157	Cyanides, inorganic, solid, n.o.s.
[illegible]		
[illegible]		
1590	153	Dichloroanilines, liquid
1590	153	Dichloroanilines, solid
1591	152	o-Dichlorobenzene
1593	160	Dichloromethane

ID No.	Guide No.	Name of Material
1593	160	Methylene chloride
1594	152	Diethyl sulfate
1594	152	Diethyl sulphate
[illegible]		
[illegible]		
1596	153	Dinitroanilines
1597	152	Dinitrobenzenes, liquid
1597	152	Dinitrobenzenes, solid
1598	153	Dinitro-o-cresol
1599	153	Dinitrophenol, solution
1600	152	Dinitrotoluenes, molten
1601	151	Disinfectant, solid, poisonous, n.o.s.
1601	151	Disinfectant, solid, toxic, n.o.s.
1602	151	Dye, liquid, poisonous, n.o.s.
1602	151	Dye, liquid, toxic, n.o.s.
1602	151	Dye intermediate, liquid, poisonous, n.o.s.
1602	151	Dye intermediate, liquid, toxic, n.o.s.
1603	155	Ethyl bromoacetate
1604	132	Ethylenediamine
[illegible]		
1606	151	Ferric arsenate
1607	151	Ferric arsenite
1608	151	Ferrous arsenate
1611	151	Hexaethyl tetraphosphate
[illegible]		
[illegible]		
1613	154	Hydrocyanic acid, aqueous solution, with less than 5% Hydrogen cyanide

ID No.	Guide No.	Name of Material
[illegible]		
[illegible]		
[illegible]		
1616	151	Lead acetate
1617	151	Lead arsenates
1618	151	Lead arsenites
1620	151	Lead cyanide
1621	151	London purple
1622	151	Magnesium arsenate
1623	151	Mercuric arsenate
1624	154	Mercuric chloride
1625	141	Mercuric nitrate
1626	157	Mercuric potassium cyanide
1627	141	Mercurous nitrate
1629	151	Mercury acetate
1630	151	Mercury ammonium chloride
1631	154	Mercury benzoate
1634	154	Mercuric bromide
1634	154	Mercurous bromide
1634	154	Mercury bromides
1636	154	Mercuric cyanide
1636	154	Mercury cyanide
1637	151	Mercury gluconate
1638	151	Mercury iodide
1639	151	Mercury nucleate
1640	151	Mercury oleate
1641	151	Mercury oxide
1642	151	Mercuric oxycyanide

ID No.	Guide No.	Name of Material
1642	151	Mercury oxycyanide, desensitized
1643	151	Mercury potassium iodide
1644	151	Mercury salicylate
1645	151	Mercuric sulfate
1645	151	Mercuric sulphate
1645	151	Mercury sulfate
1645	151	Mercury sulphate
1646	151	Mercury thiocyanate
[illegible]		
[illegible]		
1648	127	Acetonitrile
1649	131	Motor fuel anti-knock mixture
1650	153	beta-Naphthylamine
1650	153	beta-Naphthylamine, solid
1650	153	Naphthylamine (beta)
1650	153	Naphthylamine (beta), solid
1651	153	Naphthylthiourea
1652	153	Naphthylurea
1653	151	Nickel cyanide
1654	151	Nicotine
1655	151	Nicotine compound, solid, n.o.s.
1655	151	Nicotine preparation, solid, n.o.s.
1656	151	Nicotine hydrochloride
1656	151	Nicotine hydrochloride, liquid
1656	151	Nicotine hydrochloride, solution
1657	151	Nicotine salicylate
1658	151	Nicotine sulfate, solid
1658	151	Nicotine sulfate, solution

ID No.	Guide No.	Name of Material
1658	151	Nicotine sulphate, solid
1658	151	Nicotine sulphate, solution
1659	151	Nicotine tartrate
[illegible]		
[illegible]		
1661	153	Nitroanilines
1662	152	Nitrobenzene
1663	153	Nitrophenols
1664	152	Nitrotoluenes, liquid
1664	152	Nitrotoluenes, solid
1665	152	Nitroxylenes, liquid
1665	152	Nitroxylenes, solid
1669	151	Pentachloroethane
[illegible]		
1671	153	Phenol, solid
[illegible]		
1673	153	Phenylenediamines
1674	151	Phenylmercuric acetate
1677	151	Potassium arsenate
1678	154	Potassium arsenite
1679	157	Potassium cuprocyanide
[illegible]		
[illegible]		
1683	151	Silver arsenite
1684	151	Silver cyanide
1685	151	Sodium arsenate
1686	154	Sodium arsenite, aqueous solution
1687	153	Sodium azide
1688	152	Sodium cacodylate
[illegible]		

ID No.	Guide No.	Name of Material
[illegible]		
1690	154	Sodium fluoride
1690	154	Sodium fluoride, solid
1691	151	Strontium arsenite
1692	151	Strychnine
1692	151	Strychnine salts
1693	159	Tear gas devices
1693	159	Tear gas substance, liquid, n.o.s.
1693	159	Tear gas substance, solid, n.o.s.
1694	159	Bromobenzyl cyanides, liquid
1694	159	Bromobenzyl cyanides, solid
[illegible]		
[illegible]		
1697	153	Chloroacetophenone
1697	153	Chloroacetophenone, solid
[illegible]		
[illegible]		
1698	154	Diphenylamine chloroarsine
[illegible]		
[illegible]		
1699	151	Diphenylchloroarsine, liquid
1699	151	Diphenylchloroarsine, solid
1700	159	Tear gas candles
1700	159	Tear gas grenades
1701	152	Xylyl bromide
1701	152	Xylyl bromide, liquid
1702	151	1,1,2,2-Tetrachloroethane
1702	151	Tetrachloroethane
1704	153	Tetraethyl dithiopyrophosphate
1707	151	Thallium compound, n.o.s.

ID No.	Guide No.	Name of Material
1708	153	Toluidines, liquid
1708	153	Toluidines, solid
1709	151	2,4-Toluenediamine, solid
1709	151	2,4-Toluylenediamine
1709	151	2,4-Toluylenediamine, solid
1710	160	Trichloroethylene
1711	153	Xylidines, liquid
1711	153	Xylidines, solid
1712	151	Zinc arsenate
1712	151	Zinc arsenate and Zinc arsenite mixture
1712	151	Zinc arsenite
1712	151	Zinc arsenite and Zinc arsenate mixture
1713	151	Zinc cyanide
1714	139	Zinc phosphide
1715	137	Acetic anhydride
[illegible]		
[illegible]		
1718	153	Acid butyl phosphate
1718	153	Butyl acid phosphate
1719	154	Caustic alkali liquid, n.o.s.
[illegible]		
[illegible]		
1723	132	Allyl iodide
[illegible]		
[illegible]		
1727	154	Ammonium bifluoride, solid
1727	154	Ammonium hydrogendifluoride, solid
[illegible]		

ID No.	Guide No.	Name of Material
1729	156	Anisoyl chloride
1730	157	Antimony pentachloride, liquid
1731	157	Antimony pentachloride, solution
[illegible]		
1733	157	Antimony trichloride
1733	157	Antimony trichloride, liquid
1733	157	Antimony trichloride, solid
1736	137	Benzoyl chloride
1737	156	Benzyl bromide
1738	156	Benzyl chloride
1739	137	Benzyl chloroformate
1740	154	Hydrogendifluorides, n.o.s.
1740	154	Hydrogendifluorides, solid, n.o.s.
[illegible]		
1742	157	Boron trifluoride acetic acid complex
1742	157	Boron trifluoride acetic acid complex, liquid
1743	157	Boron trifluoride propionic acid complex
1743	157	Boron trifluoride propionic acid complex, liquid
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
1748	140	Calcium hypochlorite, dry

ID No.	Guide No.	Name of Material
1748	140	Calcium hypochlorite mixture, dry, with more than 39% available Chlorine (8.8% available Oxygen)
[illegible]		
1750	153	Chloroacetic acid, solution
1751	153	Chloroacetic acid, solid
[illegible]		
[illegible]		
[illegible]		
[illegible]		
1755	154	Chromic acid, solution
1756	154	Chromic fluoride, solid
1757	154	Chromic fluoride, solution
[illegible]		
1759	154	Corrosive solid, n.o.s.
1759	154	Ferrous chloride, solid
1760	154	Chemical kit
1760	154	Compounds, cleaning liquid (corrosive)
1760	154	Compounds, tree or weed killing, liquid (corrosive)
1760	154	Corrosive liquid, n.o.s.
1760	154	Ferrous chloride, solution
1761	154	Cupriethylenediamine, solution
[illegible]		
[illegible]		
1764	153	Dichloroacetic acid
[illegible]		
[illegible]		
[illegible]		

ID No.	Guide No.	Name of Material
1768	154	Difluorophosphoric acid, anhydrous
[illegible]		
1770	153	Diphenylmethyl bromide
[illegible]		
1773	157	Ferric chloride, anhydrous
1774	154	Fire extinguisher charges, corrosive liquid
1775	154	Fluoroboric acid
1776	154	Fluorophosphoric acid, anhydrous
[illegible]		
[illegible]		
1778	154	Fluorosilicic acid
1778	154	Hydrofluorosilicic acid
1779	153	Formic acid
1779	153	Formic acid, with more than 85% acid
1780	156	Fumaryl chloride
[illegible]		
1782	154	Hexafluorophosphoric acid
1783	153	Hexamethylenediamine, solution
[illegible]		
1786	157	Hydrofluoric acid and Sulfuric acid mixture
1786	157	Hydrofluoric acid and Sulphuric acid mixture
1786	157	Sulfuric acid and Hydrofluoric acid mixture
1786	157	Sulphuric acid and Hydrofluoric acid mixture
1787	154	Hydriodic acid
1788	154	Hydrobromic acid
1789	157	Hydrochloric acid
1789	157	Muriatic acid
1790	157	Hydrofluoric acid
1791	154	Hypochlorite solution
1791	154	Sodium hypochlorite
1792	157	Iodine monochloride, solid
1793	153	Isopropyl acid phosphate
1794	154	Lead sulfate, with more than 3% free acid
1794	154	Lead sulphate, with more than 3% free acid
1796	157	Nitrating acid mixture with more than 50% nitric acid
1796	157	Nitrating acid mixture with not more than 50% nitric acid
1798	157	Aqua regia
1798	157	Nitrohydrochloric acid
[illegible]		
[illegible]		
[illegible]		
1802	140	Perchloric acid, with not more than 50% acid
1803	153	Phenolsulfonic acid, liquid
1803	153	Phenolsulphonic acid, liquid
[illegible]		
1805	154	Phosphoric acid, liquid
1805	154	Phosphoric acid, solid
1805	154	Phosphoric acid, solution
[illegible]		
1807	137	Phosphorus pentoxide
[illegible]		
[illegible]		
[illegible]		
1811	154	Potassium hydrogendifluoride

ID No.	Guide No.	Name of Material
1811	154	Potassium hydrogen difluoride, solid
1812	154	Potassium fluoride
1812	154	Potassium fluoride, solid
1813	154	Caustic potash, solid
1813	154	Potassium hydroxide, solid
1814	154	Caustic potash, solution
1814	154	Potassium hydroxide, solution
[illegible]		
[illegible]		
1817	137	Pyrosulfuryl chloride
1817	137	Pyrosulphuryl chloride
[illegible]		
1819	154	Sodium aluminate, solution
1823	154	Caustic soda, solid
1823	154	Sodium hydroxide, solid
1824	154	Caustic soda, solution
1824	154	Sodium hydroxide, solution
1825	157	Sodium monoxide
1826	157	Nitrating acid mixture, spent, with more than 50% nitric acid
1826	157	Nitrating acid mixture, spent, with not more than 50% nitric acid
1827	137	Stannic chloride, anhydrous
1827	137	Tin tetrachloride
[illegible]		
[illegible]		
[illegible]		
[illegible]		
1830	137	Sulfuric acid
1830	137	Sulfuric acid, with more than 51% acid
1830	137	Sulphuric acid
1830	137	Sulphuric acid, with more than 51% acid
[illegible]		
1831	137	Sulfuric acid, fuming, with less than 30% free Sulfur trioxide
[illegible]		
[illegible]		
1831	137	Sulphuric acid, fuming, with less than 30% free Sulphur trioxide
[illegible]		
1832	137	Sulfuric acid, spent
1832	137	Sulphuric acid, spent
1833	154	Sulfurous acid
1833	154	Sulphurous acid
[illegible]		
[illegible]		
1835	153	Tetramethylammonium hydroxide
1835	153	Tetramethylammonium hydroxide, solution
[illegible]		
1837	157	Thiophosphoryl chloride
[illegible]		
1839	153	Trichloroacetic acid
1840	154	Zinc chloride, solution
1841	171	Acetaldehyde ammonia
1843	141	Ammonium dinitro-o-cresolate
1843	141	Ammonium dinitro-o-cresolate, solid
1845	120	Carbon dioxide, solid
1845	120	Dry ice

ID No.	Guide No.	Name of Material
1846	151	Carbon tetrachloride
1847	153	Potassium sulfide, hydrated, with not less than 30% water of crystallization
1847	153	Potassium sulphide, hydrated, with not less than 30% water of crystallization
1848	132	Propionic acid
1848	132	Propionic acid, with not less than 10% and less than 90% acid
1849	153	Sodium sulfide, hydrated, with not less than 30% water
1849	153	Sodium sulphide, hydrated, with not less than 30% water
1851	151	Medicine, liquid, poisonous, n.o.s.
1851	151	Medicine, liquid, toxic, n.o.s.
1854	135	Barium alloys, pyrophoric
1855	135	Calcium, pyrophoric
1855	135	Calcium alloys, pyrophoric
1856	133	Rags, oily
1857	133	Textile waste, wet
1858	126	Hexafluoropropylene
1858	126	Hexafluoropropylene, compressed
1858	126	Refrigerant gas R-1216
[illegible]		
[illegible]		
1860	116P	Vinyl fluoride, stabilized
1862	130	Ethyl crotonate
1863	128	Fuel, aviation, turbine engine
1865	131	n-Propyl nitrate
1866	127	Resin solution
1868	134	Decaborane
1869	138	Magnesium
1869	138	Magnesium, in pellets, turnings or ribbons
1869	138	Magnesium alloys, with more than 50% Magnesium, in pellets, turnings or ribbons
1870	138	Potassium borohydride
1871	170	Titanium hydride
1872	141	Lead dioxide
1873	143	Perchloric acid, with more than 50% but not more than 72% acid
1884	157	Barium oxide
1885	153	Benzidine
1886	156	Benzylidene chloride
1887	160	Bromochloromethane
1888	151	Chloroform
1889	157	Cyanogen bromide
1891	131	Ethyl bromide
[illegible]		
[illegible]		
1894	151	Phenylmercuric hydroxide
1895	151	Phenylmercuric nitrate
1897	160	Perchloroethylene
1897	160	Tetrachloroethylene
[illegible]		
1902	153	Diisooctyl acid phosphate
1903	153	Disinfectant, liquid, corrosive, n.o.s.
1905	154	Selenic acid
1906	153	Acid, sludge
1906	153	Sludge acid
1907	154	Soda lime, with more than 4% Sodium hydroxide

ID No.	Guide No.	Name of Material
1908	154	Chlorite solution
1910	157	Calcium oxide
[illegible]		
[illegible]		
[illegible]		
1912	115	Methyl chloride and Methylene chloride mixture
1912	115	Methylene chloride and Methyl chloride mixture
1913	120	Neon, refrigerated liquid (cryogenic liquid)
1914	130	Butyl propionates
1915	127	Cyclohexanone
1916	152	2,2'-Dichlorodiethyl ether
1916	152	Dichloroethyl ether
1917	129P	Ethyl acrylate, stabilized
1918	130	Cumene
1918	130	Isopropylbenzene
1919	129P	Methyl acrylate, stabilized
1920	128	Nonanes
1921	131P	Propyleneimine, stabilized
1922	132	Pyrrolidine
[illegible]		
[illegible]		
[illegible]		
1928	135	Methyl magnesium bromide in Ethyl ether
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
1932	135	Zirconium scrap
1935	157	Cyanide solution, n.o.s.
1938	156	Bromoacetic acid
1938	156	Bromoacetic acid, solution
1939	137	Phosphorus oxybromide
1939	137	Phosphorus oxybromide, solid
1940	153	Thioglycolic acid
1941	171	Dibromodifluoromethane
1941	171	Refrigerant gas R-12B2
1942	140	Ammonium nitrate, with not more than 0.2% combustible substances
1944	133	Matches, safety
1945	133	Matches, wax "vesta"
1950	126	Aerosols
1951	120	Argon, refrigerated liquid (cryogenic liquid)
1952	126	Carbon dioxide and Ethylene oxide mixtures, with not more than 9% Ethylene oxide
1952	126	Ethylene oxide and Carbon dioxide mixtures, with not more than 9% Ethylene oxide
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		

ID No.	Guide No.	Name of Material
[redacted]		
1954	115	Compressed gas, flammable, n.o.s.
1954	115	Dispersant gases, n.o.s. (flammable)
1954	115	Refrigerant gases, n.o.s. (flammable)
[redacted]		

ID No.	Guide No.	Name of Material
[redacted]		
1956	126	Compressed gas, n.o.s.
1957	115	Deuterium
1957	115	Deuterium, compressed
1958	126	1,2-Dichloro-1,1,2,2-tetrafluoroethane
1958	126	Refrigerant gas R-114
1959	116P	1,1-Difluoroethylene
1959	116P	Refrigerant gas R-1132a
1961	115	Ethane, refrigerated liquid
1961	115	Ethane-Propane mixture, refrigerated liquid
1961	115	Propane-Ethane mixture, refrigerated liquid
1962	116P	Ethylene
1962	116P	Ethylene, compressed
1963	120	Helium, refrigerated liquid (cryogenic liquid)
1964	115	Hydrocarbon gas mixture, compressed, n.o.s.
1965	115	Hydrocarbon gas mixture, liquefied, n.o.s.
1966	115	Hydrogen, refrigerated liquid (cryogenic liquid)
[redacted]		

ID No.	Guide No.	Name of Material
1968	126	Insecticide gas, n.o.s.
1969	115	Isobutane
1970	120	Krypton, refrigerated liquid (cryogenic liquid)
1971	115	Methane
1971	115	Methane, compressed
1971	115	Natural gas, compressed
1972	115	Liquefied natural gas (cryogenic liquid)
1972	115	LNG (cryogenic liquid)
1972	115	Methane, refrigerated liquid (cryogenic liquid)
1972	115	Natural gas, refrigerated liquid (cryogenic liquid)
1973	126	Chlorodifluoromethane and Chloropentafluoroethane mixture
1973	126	Chloropentafluoroethane and Chlorodifluoromethane mixture
1973	126	Refrigerant gas R-502
1974	126	Chlorodifluorobromomethane
1974	126	Refrigerant gas R-12B1
[redacted]		
1976	126	Octafluorocyclobutane
1976	126	Refrigerant gas RC-318

ID No.	Guide No.	Name of Material
1977	120	Nitrogen, refrigerated liquid (cryogenic liquid)
1978	115	Propane
1979	121	Rare gases mixture, compressed
1980	121	Oxygen and Rare gases mixture, compressed
1980	121	Rare gases and Oxygen mixture, compressed
1981	121	Nitrogen and Rare gases mixture, compressed
1981	121	Rare gases and Nitrogen mixture, compressed
1982	126	Refrigerant gas R-14
1982	126	Refrigerant gas R-14, compressed
1982	126	Tetrafluoromethane
1982	126	Tetrafluoromethane, compressed
1983	126	1-Chloro-2,2,2-trifluoroethane
1983	126	Refrigerant gas R-133a
1984	126	Refrigerant gas R-23
1984	126	Trifluoromethane
1986	131	Alcohols, flammable, poisonous, n.o.s.
1986	131	Alcohols, flammable, toxic, n.o.s.
1987	127	Alcohols, n.o.s.
1987	127	Denatured alcohol
1988	131	Aldehydes, flammable, poisonous, n.o.s.
1988	131	Aldehydes, flammable, toxic, n.o.s.
1989	129	Aldehydes, n.o.s.
1990	129	Benzaldehyde
1991	131P	Chloroprene, stabilized

ID No.	Guide No.	Name of Material
1992	131	Flammable liquid, poisonous, n.o.s.
1992	131	Flammable liquid, toxic, n.o.s.
1993	128	Combustible liquid, n.o.s.
1993	128	Compounds, cleaning liquid (flammable)
1993	128	Compounds, tree or weed killing, liquid (flammable)
1993	128	Diesel fuel
1993	128	Flammable liquid, n.o.s.
1993	128	Fuel oil
[redacted]		
1999	130	Asphalt
1999	130	Asphalt, cut back
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, water-reactive, n.o.s.
2003	135	Metal aryls, water-reactive, n.o.s.
[redacted]		
2005	135	Magnesium diphenyl
2006	135	Plastics, nitrocellulose-based, self-heating, n.o.s.
2008	135	Zirconium powder, dry
2009	135	Zirconium, dry, finished sheets, strips or coiled wire
2010	138	Magnesium hydride
[redacted]		

ID No.	Guide No.	Name of Material
2014	140	Hydrogen peroxide, aqueous solution, with not less than 20% but not more than 60% Hydrogen peroxide (stabilized as necessary)
2015	143	Hydrogen peroxide, aqueous solution, stabilized, with more than 60% Hydrogen peroxide
2015	143	Hydrogen peroxide, stabilized
2016	151	Ammunition, poisonous, non-explosive
2016	151	Ammunition, toxic, non-explosive
2017	159	Ammunition, tear-producing, non-explosive
2018	152	Chloroanilines, solid
2019	152	Chloroanilines, liquid
2020	153	Chlorophenols, solid
2021	153	Chlorophenols, liquid
2022	153	Cresylic acid
2023	131P	1-Chloro-2,3-epoxypropane
2023	131P	Epichlorohydrin
2024	151	Mercury compound, liquid, n.o.s.
2025	151	Mercury compound, solid, n.o.s.
2026	151	Phenylmercuric compound, n.o.s.
2027	151	Sodium arsenite, solid
2028	153	Bombs, smoke, non-explosive, with corrosive liquid, without initiating device
2029	132	Hydrazine, anhydrous
2030	153	Hydrazine, aqueous solution, with more than 37% Hydrazine

ID No.	Guide No.	Name of Material
2030	153	Hydrazine, aqueous solution, with not less than 37% but not more than 64% Hydrazine
2030	153	Hydrazine hydrate
2031	157	Nitric acid, other than red fuming, with more than 70% nitric acid
2031	157	Nitric acid, other than red fuming, with not more than 70% nitric acid
[redacted]		
2033	154	Potassium monoxide
2034	115	Hydrogen and Methane mixture, compressed
2034	115	Methane and Hydrogen mixture, compressed
2035	115	Refrigerant gas R-143a
2035	115	1,1,1-Trifluoroethane
2036	121	Xenon
2036	121	Xenon, compressed
2037	115	Gas cartridges
2037	115	Receptacles, small, containing gas
2038	152	Dinitrotoluenes
2038	152	Dinitrotoluenes, liquid
2038	152	Dinitrotoluenes, solid
2044	115	2,2-Dimethylpropane
2045	130	Isobutyl aldehyde
2045	130	Isobutyraldehyde
2046	130	Cymenes
2047	129	Dichloropropenes
2048	130	Dicyclopentadiene
2049	130	Diethylbenzene
2050	128	Diisobutylene, isomeric compounds
2051	132	2-Dimethylaminoethanol

ID No.	Guide No.	Name of Material
2052	128	Dipentene
2053	129	Methylamyl alcohol
2053	129	Methyl isobutyl carbinol
2053	129	M.I.B.C.
2054	132	Morpholine
2055	128P	Styrene monomer, stabilized
2056	127	Tetrahydrofuran
2057	128	Tripropylene
2058	129	Valeraldehyde
2059	127	Nitrocellulose, solution, flammable
2067	140	Ammonium nitrate based fertilizer
2068	140	Ammonium nitrate fertilizers, with Calcium carbonate
2069	140	Ammonium nitrate fertilizers, with Ammonium sulfate
2069	140	Ammonium nitrate fertilizers, with Ammonium sulphate
2070	143	Ammonium nitrate fertilizers, with Phosphate or Potash
2071	140	Ammonium nitrate based fertilizer
2072	140	Ammonium nitrate fertilizer, n.o.s.
2073	125	Ammonia, solution, with more than 35% but not more than 50% Ammonia
2074	153P	Acrylamide
2074	153P	Acrylamide, solid
2075	153	Chloral, anhydrous, stabilized
2076	153	Cresols, liquid
2076	153	Cresols, solid
2077	153	alpha-Naphthylamine
2077	153	Naphthylamine (alpha)

ID No.	Guide No.	Name of Material
2078	156	Toluene diisocyanate
2079	154	Diethylenetriamine
[illegible]		
2187	120	Carbon dioxide, refrigerated liquid
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
2193	126	Hexafluoroethane
2193	126	Hexafluoroethane, compressed
2193	126	Refrigerant gas R-116
2193	126	Refrigerant gas R-116, compressed
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
2200	116P	Propadiene, stabilized
2201	122	Nitrous oxide, refrigerated liquid
[illegible]		
2203	116	Silane
2203	116	Silane, compressed

ID No.	Guide No.	Name of Material
[illegible]		
[illegible]		
2205	153	Adiponitrile
2206	155	Isocyanate solution, poisonous, n.o.s.
2206	155	Isocyanate solution, toxic, n.o.s.
2206	155	Isocyanates, poisonous, n.o.s.
2206	155	Isocyanates, toxic, n.o.s.
2208	140	Bleaching powder
2208	140	Calcium hypochlorite mixture, dry, with more than 10% but not more than 39% available Chlorine
2209	132	Formaldehyde, solution (corrosive)
2209	132	Formalin (corrosive)
2210	135	Maneb
2210	135	Maneb preparation, with not less than 60% Maneb
2211	133	Polymeric beads, expandable
2211	133	Polystyrene beads, expandable
2212	171	Asbestos
2212	171	Asbestos, amphibole
2212	171	Asbestos, blue
2212	171	Asbestos, brown
2212	171	Blue asbestos
2212	171	Brown asbestos
2213	133	Paraformaldehyde
2214	156	Phthalic anhydride
2215	156	Maleic anhydride
2215	156	Maleic anhydride, molten
2216	171	Fish meal, stabilized
2216	171	Fish scrap, stabilized

ID No.	Guide No.	Name of Material
2217	135	Seed cake, with not more than 1.5% oil and not more than 11% moisture
2218	132P	Acrylic acid, stabilized
2219	129	Allyl glycidyl ether
2222	128	Anisole
2224	152	Benzonitrile
2225	156	Benzenesulfonyl chloride
2225	156	Benzenesulphonyl chloride
2226	156	Benzotrichloride
2227	130P	n-Butyl methacrylate, stabilized
[illegible]		
[illegible]		
2233	152	Chloroanisidines
2234	130	Chlorobenzotrifluorides
2235	153	Chlorobenzyl chlorides
2235	153	Chlorobenzyl chlorides, liquid
2236	156	3-Chloro-4-methylphenyl isocyanate
2236	156	3-Chloro-4-methylphenyl isocyanate, liquid
2237	153	Chloronitroanilines
2238	129	Chlorotoluenes
2239	153	Chlorotoluidines
2239	153	Chlorotoluidines, solid
2240	154	Chromosulfuric acid
2240	154	Chromosulphuric acid
2241	128	Cycloheptane
2242	128	Cycloheptene
2243	130	Cyclohexyl acetate
2244	129	Cyclopentanol
2245	128	Cyclopentanone
2246	128	Cyclopentene

ID No.	Guide No.	Name of Material
2247	128	n-Decane
2248	132	Di-n-butylamine
2249	131	Dichlorodimethyl ether, symmetrical
2250	156	Dichlorophenyl isocyanates
2251	128P	Bicyclo[2.2.1]hepta-2,5-diene, stabilized
2251	128P	2,5-Norbornadiene, stabilized
2252	127	1,2-Dimethoxyethane
2253	153	N,N-Dimethylaniline
2254	133	Matches, fusee
2256	130	Cyclohexene
2257	138	Potassium
2257	138	Potassium, metal
2258	132	1,2-Propylenediamine
2259	153	Triethylenetetramine
2260	132	Tripropylamine
2261	153	Xylenols
2261	153	Xylenols, solid
2262	156	Dimethylcarbamoyl chloride
2263	128	Dimethylcyclohexanes
2264	132	N,N-Dimethylcyclohexylamine
2264	132	Dimethylcyclohexylamine
2265	129	N,N-Dimethylformamide
2266	132	Dimethyl-N-propylamine
2267	156	Dimethyl thiophosphoryl chloride
2269	153	3,3'-Iminodipropylamine
2270	132	Ethylamine, aqueous solution, with not less than 50% but not more than 70% Ethylamine
2271	128	Ethyl amyl ketone
2272	153	N-Ethylaniline

ID No.	Guide No.	Name of Material
2273	153	2-Ethylaniline
2274	153	N-Ethyl-N-benzylaniline
2275	129	2-Ethylbutanol
2276	132	2-Ethylhexylamine
2277	130P	Ethyl methacrylate
2277	130P	Ethyl methacrylate, stabilized
2278	128	n-Heptene
2279	151	Hexachlorobutadiene
2280	153	Hexamethylenediamine, solid
2281	156	Hexamethylene diisocyanate
2282	129	Hexanols
2283	130P	Isobutyl methacrylate, stabilized
2284	131	Isobutyronitrile
[illegible]		
2286	128	Pentamethylheptane
2287	128	Isoheptenes
2288	128	Isohexenes
2289	153	Isophoronediamine
2290	156	IPDI
2290	156	Isophorone diisocyanate
2291	151	Lead compound, soluble, n.o.s.
2293	128	4-Methoxy-4-methylpentan-2-one
2294	153	N-Methylaniline
2295	155	Methyl chloroacetate
2296	128	Methylcyclohexane
2297	128	Methylcyclohexanone
2298	128	Methylcyclopentane
2299	155	Methyl dichloroacetate
2300	153	2-Methyl-5-ethylpyridine
2301	128	2-Methylfuran

ID No.	Guide No.	Name of Material
2302	127	5-Methylhexan-2-one
2303	128	Isopropenylbenzene
2304	133	Naphthalene, molten
2305	153	Nitrobenzenesulfonic acid
2305	153	Nitrobenzenesulphonic acid
2306	152	Nitrobenzotrifluorides
2306	152	Nitrobenzotrifluorides, liquid
2307	152	3-Nitro-4-chlorobenzotrifluoride
[illegible]		
[illegible]		
[illegible]		
[illegible]		
2309	128P	Octadiene
2310	131	Pentane-2,4-dione
2311	153	Phenetidines
2312	153	Phenol, molten
2313	129	Picolines
2315	171	Articles containing Polychlorinated biphenyls (PCB)
2315	171	PCB
2315	171	Polychlorinated biphenyls
2315	171	Polychlorinated biphenyls, liquid
2316	157	Sodium cuprocyanide, solid
2317	157	Sodium cuprocyanide, solution
2318	135	Sodium hydrosulfide, with less than 25% water of crystallization
2318	135	Sodium hydrosulphide, with less than 25% water of crystallization
2319	128	Terpene hydrocarbons, n.o.s.
2320	153	Tetraethylenepentamine

ID No.	Guide No.	Name of Material
2321	153	Trichlorobenzenes, liquid
2322	152	Trichlorobutene
2323	130	Triethyl phosphite
2324	128	Triisobutylene
2325	129	1,3,5-Trimethylbenzene
2326	153	Trimethylcyclohexylamine
2327	153	Trimethylhexamethylenediamines
2328	156	Trimethylhexamethylene diisocyanate
2329	130	Trimethyl phosphite
2330	128	Undecane
2331	154	Zinc chloride, anhydrous
2332	129	Acetaldehyde oxime
2333	131	Allyl acetate
[illegible]		
2335	131	Allyl ethyl ether
2336	131	Allyl formate
[illegible]		
2338	127	Benzotrifluoride
2339	130	2-Bromobutane
2340	130	2-Bromoethyl ethyl ether
2341	130	1-Bromo-3-methylbutane
2342	130	Bromomethylpropanes
2343	130	2-Bromopentane
2344	129	Bromopropanes
2345	130	3-Bromopropyne
2346	127	Butanedione
2346	127	Diacetyl
2347	130	Butyl mercaptan
2348	129P	Butyl acrylates, stabilized
2350	127	Butyl methyl ether

ID No.	Guide No.	Name of Material
2351	129	Butyl nitrites
2352	127P	Butyl vinyl ether, stabilized
[illegible]		
2354	131	Chloromethyl ethyl ether
2356	129	2-Chloropropane
2357	132	Cyclohexylamine
2358	128P	Cyclooctatetraene
2359	132	Diallylamine
2360	131P	Diallyl ether
2361	132	Diisobutylamine
2362	130	1,1-Dichloroethane
2363	129	Ethyl mercaptan
2364	128	n-Propyl benzene
2366	128	Diethyl carbonate
2367	130	alpha-Methylvaleraldehyde
2367	130	Methyl valeraldehyde (alpha)
2368	128	alpha-Pinene
2368	128	Pinene (alpha)
2370	128	1-Hexene
2371	128	Isopentenes
2372	129	1,2-Di-(dimethylamino)ethane
2373	127	Diethoxymethane
2374	127	3,3-Diethoxypropene
2375	129	Diethyl sulfide
2375	129	Diethyl sulphide
2376	127	2,3-Dihydropyran
2377	127	1,1-Dimethoxyethane
2378	131	2-Dimethylaminoacetonitrile
2379	132	1,3-Dimethylbutylamine
2380	127	Dimethyldiethoxysilane
2381	130	Dimethyl disulfide

ID No.	Guide No.	Name of Material
2381	130	Dimethyl disulphide
[illegible]		
2383	132	Dipropylamine
2384	127	Di-n-propyl ether
2385	129	Ethyl isobutyrate
2386	132	1-Ethylpiperidine
2387	130	Fluorobenzene
2388	130	Fluorotoluenes
2389	128	Furan
2390	129	2-Iodobutane
2391	129	Iodomethylpropanes
2392	129	Iodopropanes
2393	129	Isobutyl formate
2394	129	Isobutyl propionate
[illegible]		
2396	131P	Methacrylaldehyde, stabilized
2397	127	3-Methylbutan-2-one
2398	127	Methyl tert-butyl ether
2399	132	1-Methylpiperidine
2400	130	Methyl isovalerate
2401	132	Piperidine
2402	130	Propanethiols
2403	129P	Isopropenyl acetate
2404	131	Propionitrile
2405	129	Isopropyl butyrate
2406	127	Isopropyl isobutyrate
[illegible]		
2409	129	Isopropyl propionate
2410	129	1,2,3,6-Tetrahydropyridine
2411	131	Butyronitrile
2412	130	Tetrahydrothiophene
2413	128	Tetrapropyl orthotitanate
2414	130	Thiophene
2416	129	Trimethyl borate
[illegible]		
2419	116	Bromotrifluoroethylene
[illegible]		
2422	126	Octafluorobut-2-ene
2422	126	Refrigerant gas R-1318
2424	126	Octafluoropropane
2424	126	Refrigerant gas R-218
2426	140	Ammonium nitrate, liquid (hot concentrated solution)
2427	140	Potassium chlorate, aqueous solution
2428	140	Sodium chlorate, aqueous solution
2429	140	Calcium chlorate, aqueous solution
2430	153	Alkylphenols, solid, n.o.s. (including C2-C12 homologues)
2431	153	Anisidines
2431	153	Anisidines, liquid
2431	153	Anisidines, solid
2432	153	N,N-Diethylaniline
2433	152	Chloronitrotoluenes, liquid
2433	152	Chloronitrotoluenes, solid
[illegible]		
[illegible]		
2436	129	Thioacetic acid

ID No.	Guide No.	Name of Material
[illegible]		
[illegible]		
2439	154	Sodium hydrogendifluoride
2440	154	Stannic chloride, pentahydrate
2441	135	Titanium trichloride, pyrophoric
2441	135	Titanium trichloride mixture, pyrophoric
[illegible]		
2443	137	Vanadium oxytrichloride
2444	137	Vanadium tetrachloride
2445	135	Lithium alkyls
2445	135	Lithium alkyls, liquid
2446	153	Nitrocresols
2446	153	Nitrocresols, solid
2447	136	Phosphorus, white, molten
2447	136	White phosphorus, molten
2448	133	Molten sulfur
2448	133	Molten sulphur
2448	133	Sulfur, molten
2448	133	Sulphur, molten
2451	122	Nitrogen trifluoride
2451	122	Nitrogen trifluoride, compressed
2452	116P	Ethylacetylene, stabilized
2453	115	Ethyl fluoride
2453	115	Refrigerant gas R-161
2454	115	Methyl fluoride
2454	115	Refrigerant gas R-41
2455	116	Methyl nitrite
2456	130P	2-Chloropropene
2457	128	2,3-Dimethylbutane
2458	130	Hexadiene
2459	128	2-Methyl-1-butene
2460	128	2-Methyl-2-butene
2461	128	Methylpentadiene
2463	138	Aluminum hydride
2464	141	Beryllium nitrate
2465	140	Dichloroisocyanuric acid, dry
2465	140	Dichloroisocyanuric acid salts
2465	140	Sodium dichloroisocyanurate
2465	140	Sodium dichloro-s-triazinetrione
2466	143	Potassium superoxide
2468	140	Trichloroisocyanuric acid, dry
2469	140	Zinc bromate
2470	152	Phenylacetonitrile, liquid
2471	154	Osmium tetroxide
2473	154	Sodium arsanilate
[illegible]		
2475	157	Vanadium trichloride
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		

ID No.	Guide No.	Name of Material
[illegible]		
[illegible]		
[illegible]		
2490	153	Dichloroisopropyl ether
2491	153	Ethanolamine
2491	153	Ethanolamine, solution
2491	153	Monoethanolamine
2493	132	Hexamethyleneimine
[illegible]		
2496	156	Propionic anhydride
2498	129	1,2,3,6-Tetrahydrobenzaldehyde
2501	152	Tris-(1-aziridinyl)phosphine oxide, solution
2502	132	Valeryl chloride
2503	137	Zirconium tetrachloride
2504	159	Acetylene tetrabromide
2504	159	Tetrabromoethane
2505	154	Ammonium fluoride
2506	154	Ammonium hydrogen sulfate
2506	154	Ammonium hydrogen sulphate
2507	154	Chloroplatinic acid, solid
2508	156	Molybdenum pentachloride
2509	154	Potassium hydrogen sulfate
2509	154	Potassium hydrogen sulphate
2511	153	2-Chloropropionic acid
2511	153	2-Chloropropionic acid, solid
2511	153	2-Chloropropionic acid, solution
2512	152	Aminophenols
2513	156	Bromoacetyl bromide
2514	130	Bromobenzene
2515	159	Bromoform
2516	151	Carbon tetrabromide
2517	115	1-Chloro-1,1-difluoroethane
2517	115	Difluorochloroethanes
2517	115	Refrigerant gas R-142b
2518	153	1,5,9-Cyclododecatriene
2520	130P	Cyclooctadienes
[illegible]		
2522	153P	2-Dimethylaminoethyl methacrylate
2524	129	Ethyl orthoformate
2525	156	Ethyl oxalate
2526	132	Furfurylamine
2527	129P	Isobutyl acrylate, stabilized
2528	130	Isobutyl isobutyrate
2529	132	Isobutyric acid
2531	153P	Methacrylic acid, stabilized
2533	156	Methyl trichloroacetate
[illegible]		
2535	132	4-Methylmorpholine
2535	132	N-Methylmorpholine
2536	127	Methyltetrahydrofuran
2538	133	Nitronaphthalene
2541	128	Terpinolene
2542	153	Tributylamine
2545	135	Hafnium powder, dry
2546	135	Titanium powder, dry
2547	143	Sodium superoxide
[illegible]		
2552	151	Hexafluoroacetone hydrate
2552	151	Hexafluoroacetone hydrate, liquid
2554	130P	Methylallyl chloride

ID No.	Guide No.	Name of Material
2555	113	Nitrocellulose with water, not less than 25% water
2556	113	Nitrocellulose with alcohol
2556	113	Nitrocellulose with not less than 25% alcohol
2557	133	Nitrocellulose mixture, without pigment
2557	133	Nitrocellulose mixture, without plasticizer
2557	133	Nitrocellulose mixture, with pigment
2557	133	Nitrocellulose mixture, with plasticizer
2558	131	Epibromohydrin
2560	129	2-Methylpentan-2-ol
2561	128	3-Methyl-1-butene
2564	153	Trichloroacetic acid, solution
2565	153	Dicyclohexylamine
2567	154	Sodium pentachlorophenate
2570	154	Cadmium compound
2571	156	Alkylsulfuric acids
2571	156	Alkylsulphuric acids
2572	153	Phenylhydrazine
2573	141	Thallium chlorate
2574	151	Tricresyl phosphate
2576	137	Phosphorus oxybromide, molten
2577	156	Phenylacetyl chloride
2578	157	Phosphorus trioxide
2579	153	Piperazine
2580	154	Aluminum bromide, solution
2581	154	Aluminum chloride, solution
2582	154	Ferric chloride, solution
2583	153	Alkyl sulfonic acids, solid, with more than 5% free Sulfuric acid
2583	153	Alkyl sulphonic acids, solid, with more than 5% free Sulphuric acid
2583	153	Aryl sulfonic acids, solid, with more than 5% free Sulfuric acid
2583	153	Aryl sulphonic acids, solid, with more than 5% free Sulphuric acid
2584	153	Alkyl sulfonic acids, liquid, with more than 5% free Sulfuric acid
2584	153	Alkyl sulphonic acids, liquid, with more than 5% free Sulphuric acid
2584	153	Aryl sulfonic acids, liquid, with more than 5% free Sulfuric acid
2584	153	Aryl sulphonic acids, liquid, with more than 5% free Sulphuric acid
2585	153	Alkyl sulfonic acids, solid, with not more than 5% free Sulfuric acid
2585	153	Alkyl sulphonic acids, solid, with not more than 5% free Sulphuric acid
2585	153	Aryl sulfonic acids, solid, with not more than 5% free Sulfuric acid
2585	153	Aryl sulphonic acids, solid, with not more than 5% free Sulphuric acid
2586	153	Alkyl sulfonic acids, liquid, with not more than 5% free Sulfuric acid
2586	153	Alkyl sulphonic acids, liquid, with not more than 5% free Sulphuric acid

ID No.	Guide No.	Name of Material
2586	153	Aryl sulfonic acids, liquid, with not more than 5% free Sulfuric acid
2586	153	Aryl sulphonic acids, liquid, with not more than 5% free Sulphuric acid
2587	153	Benzoquinone
2588	151	Pesticide, solid, poisonous, n.o.s.
2588	151	Pesticide, solid, toxic, n.o.s.
2589	155	Vinyl chloroacetate
2590	171	Asbestos, chrysolite
2590	171	Asbestos, white
2590	171	White asbestos
2591	120	Xenon, refrigerated liquid (cryogenic liquid)
2599	126	Chlorotrifluoromethane and Trifluoromethane azeotropic mixture with approximately 60% Chlorotrifluoromethane
2599	126	Refrigerant gas R-503
2599	126	Trifluoromethane and Chlorotrifluoromethane azeotropic mixture with approximately 60% Chlorotrifluoromethane
[illegible]		
[illegible]		
2601	115	Cyclobutane
2602	126	Dichlorodifluoromethane and Difluoroethane azeotropic mixture with approximately 74% Dichlorodifluoromethane
2602	126	Difluoroethane and Dichlorodifluoromethane azeotropic mixture with approximately 74% Dichlorodifluoromethane
2602	126	Refrigerant gas R-500
2603	131	Cycloheptatriene
2604	132	Boron trifluoride diethyl etherate
[illegible]		
[illegible]		
2607	129P	Acrolein dimer, stabilized
2608	129	Nitropropanes
2609	156	Triallyl borate
2610	132	Triallylamine
2611	131	Propylene chlorohydrin
2612	127	Methyl propyl ether
2614	129	Methallyl alcohol
2615	127	Ethyl propyl ether
2616	129	Triisopropyl borate
2617	129	Methylcyclohexanols
2618	130P	Vinyltoluenes, stabilized
2619	132	Benzyldimethylamine
2620	130	Amyl butyrates
2621	127	Acetyl methyl carbinol
2622	131P	Glycidaldehyde
2623	133	Firelighters, solid, with flammable liquid
2624	138	Magnesium silicide
2626	140	Chloric acid, aqueous solution, with not more than 10% Chloric acid
2627	140	Nitrites, inorganic, n.o.s.
2628	151	Potassium fluoroacetate
2629	151	Sodium fluoroacetate
2630	151	Selenates
2630	151	Selenites
2642	154	Fluoroacetic acid

ID No.	Guide No.	Name of Material
2643	155	Methyl bromoacetate
[illegible]		
2645	153	Phenacyl bromide
[illegible]		
2647	153	Malononitrile
2648	154	1,2-Dibromobutan-3-one
2649	153	1,3-Dichloroacetone
2650	153	1,1-Dichloro-1-nitroethane
2651	153	4,4'-Diaminodiphenylmethane
2653	156	Benzyl iodide
2655	151	Potassium fluorosilicate
2655	151	Potassium silicofluoride
2656	154	Quinoline
2657	153	Selenium disulfide
2657	153	Selenium disulphide
2659	151	Sodium chloroacetate
2660	153	Mononitrotoluidines
2660	153	Nitrotoluidines (mono)
2661	153	Hexachloroacetone
2662	153	Hydroquinone
2664	160	Dibromomethane
2667	152	Butyltoluenes
[illegible]		
2669	152	Chlorocresols
2669	152	Chlorocresols, solution
2670	157	Cyanuric chloride
2671	153	Aminopyridines
2672	154	Ammonia, solution, with more than 10% but not more than 35% Ammonia
2672	154	Ammonium hydroxide
2672	154	Ammonium hydroxide, with more than 10% but not more than 35% Ammonia
2673	151	2-Amino-4-chlorophenol
2674	154	Sodium fluorosilicate
2674	154	Sodium silicofluoride
[illegible]		
2677	154	Rubidium hydroxide, solution
2678	154	Rubidium hydroxide
2678	154	Rubidium hydroxide, solid
2679	154	Lithium hydroxide, solution
2680	154	Lithium hydroxide
2680	154	Lithium hydroxide, monohydrate
2681	154	Caesium hydroxide, solution
2681	154	Cesium hydroxide, solution
2682	157	Caesium hydroxide
2682	157	Cesium hydroxide
2683	132	Ammonium sulfide, solution
2683	132	Ammonium sulphide, solution
2684	132	3-Diethylaminopropylamine
2684	132	Diethylaminopropylamine
2685	132	N,N-Diethylethylenediamine
2686	132	2-Diethylaminoethanol
2687	133	Dicyclohexylammonium nitrite
2688	159	1-Bromo-3-chloropropane
2689	153	Glycerol alpha-monochlorohydrin
2690	152	N,n-Butylimidazole
[illegible]		
[illegible]		
2693	154	Bisulfites, aqueous solution, n.o.s.

ID No.	Guide No.	Name of Material
2693	154	Bisulphites, aqueous solution, n.o.s.
2698	156	Tetrahydrophthalic anhydrides
2699	154	Trifluoroacetic acid
2705	153P	1-Pentol
2707	127	Dimethyldioxanes
2709	128	Butylbenzenes
2710	128	Dipropyl ketone
2713	153	Acridine
2714	133	Zinc resinate
2715	133	Aluminum resinate
2716	153	1,4-Butynediol
2717	133	Camphor
2717	133	Camphor, synthetic
2719	141	Barium bromate
2720	141	Chromium nitrate
2721	141	Copper chlorate
2722	140	Lithium nitrate
2723	140	Magnesium chlorate
2724	140	Manganese nitrate
2725	140	Nickel nitrate
2726	140	Nickel nitrite
2727	141	Thallium nitrate
2728	140	Zirconium nitrate
2729	152	Hexachlorobenzene
2730	152	Nitroanisoles, liquid
2730	152	Nitroanisoles, solid
2732	152	Nitrobromobenzenes, liquid
2732	152	Nitrobromobenzenes, solid
2733	132	Amines, flammable, corrosive, n.o.s.
2733	132	Polyalkylamines, n.o.s.
2733	132	Polyamines, flammable, corrosive, n.o.s.
2734	132	Amines, liquid, corrosive, flammable, n.o.s.
2734	132	Polyalkylamines, n.o.s.
2734	132	Polyamines, liquid, corrosive, flammable, n.o.s.
2735	153	Amines, liquid, corrosive, n.o.s.
2735	153	Polyalkylamines, n.o.s.
2735	153	Polyamines, liquid, corrosive, n.o.s.
2738	153	N-Butylaniline
2739	156	Butyric anhydride
[illegible]		
2741	141	Barium hypochlorite, with more than 22% available Chlorine
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
2744	155	Cyclobutyl chloroformate
2745	157	Chloromethyl chloroformate
2746	156	Phenyl chloroformate
2747	156	tert-Butylcyclohexyl chloroformate
2748	156	2-Ethylhexyl chloroformate
2749	130	Tetramethylsilane
2750	153	1,3-Dichloropropanol-2
2751	155	Diethylthiophosphoryl chloride
2752	127	1,2-Epoxy-3-ethoxypropane
2753	153	N-Ethylbenzyltoluidines, liquid

ID No.	Guide No.	Name of Material
2753	153	N-Ethylbenzyltoluidines, solid
2754	153	N-Ethyltoluidines
2757	151	Carbamate pesticide, solid, poisonous
2757	151	Carbamate pesticide, solid, toxic
2758	131	Carbamate pesticide, liquid, flammable, poisonous
2758	131	Carbamate pesticide, liquid, flammable, toxic
2759	151	Arsenical pesticide, solid, poisonous
2759	151	Arsenical pesticide, solid, toxic
2760	131	Arsenical pesticide, liquid, flammable, poisonous
2760	131	Arsenical pesticide, liquid, flammable, toxic
2761	151	Organochlorine pesticide, solid, poisonous
2761	151	Organochlorine pesticide, solid, toxic
2762	131	Organochlorine pesticide, liquid, flammable, poisonous
2762	131	Organochlorine pesticide, liquid, flammable, toxic
2763	151	Triazine pesticide, solid, poisonous
2763	151	Triazine pesticide, solid, toxic
2764	131	Triazine pesticide, liquid, flammable, poisonous
2764	131	Triazine pesticide, liquid, flammable, toxic
2771	151	Thiocarbamate pesticide, solid, poisonous
2771	151	Thiocarbamate pesticide, solid, toxic
2772	131	Thiocarbamate pesticide, liquid, flammable, poisonous
2772	131	Thiocarbamate pesticide, liquid, flammable, toxic
2775	151	Copper based pesticide, solid, poisonous
2775	151	Copper based pesticide, solid, toxic
2776	131	Copper based pesticide, liquid, flammable, poisonous
2776	131	Copper based pesticide, liquid, flammable, toxic
2777	151	Mercury based pesticide, solid, poisonous
2777	151	Mercury based pesticide, solid, toxic
2778	131	Mercury based pesticide, liquid, flammable, poisonous
2778	131	Mercury based pesticide, liquid, flammable, toxic
2779	153	Substituted nitrophenol pesticide, solid, poisonous
2779	153	Substituted nitrophenol pesticide, solid, toxic
2780	131	Substituted nitrophenol pesticide, liquid, flammable, poisonous
2780	131	Substituted nitrophenol pesticide, liquid, flammable, toxic
2781	151	Bipyridilium pesticide, solid, poisonous
2781	151	Bipyridilium pesticide, solid, toxic
2782	131	Bipyridilium pesticide, liquid, flammable, poisonous
2782	131	Bipyridilium pesticide, liquid, flammable, toxic
2783	152	Organophosphorus pesticide, solid, poisonous
2783	152	Organophosphorus pesticide, solid, toxic

ID No.	Guide No.	Name of Material
2784	131	Organophosphorus pesticide, liquid, flammable, poisonous
2784	131	Organophosphorus pesticide, liquid, flammable, toxic
2785	152	4-Thiapentanal
2786	153	Organotin pesticide, solid, poisonous
2786	153	Organotin pesticide, solid, toxic
2787	131	Organotin pesticide, liquid, flammable, poisonous
2787	131	Organotin pesticide, liquid, flammable, toxic
2788	153	Organotin compound, liquid, n.o.s.
2789	132	Acetic acid, glacial
2789	132	Acetic acid, solution, more than 80% acid
2790	153	Acetic acid, solution, more than 10% but not more than 80% acid
2793	170	Ferrous metal borings, shavings, turnings or cuttings
2794	154	Batteries, wet, filled with acid
2795	154	Batteries, wet, filled with alkali
2796	157	Battery fluid, acid
2796	157	Sulfuric acid, with not more than 51% acid
2796	157	Sulphuric acid, with not more than 51% acid
2797	154	Battery fluid, alkali
2798	137	Benzene phosphorus dichloride
2798	137	Phenylphosphorus dichloride
2799	137	Benzene phosphorus thiodichloride
2799	137	Phenylphosphorus thiodichloride
2800	154	Batteries, wet, non-spillable

ID No.	Guide No.	Name of Material
2801	154	Dye, liquid, corrosive, n.o.s.
2801	154	Dye intermediate, liquid, corrosive, n.o.s.
2802	154	Copper chloride
2803	172	Gallium
2805	138	Lithium hydride, fused solid
[redacted]		
2807	171	Magnetized material
2809	172	Mercury
2809	172	Mercury metal
[redacted]		
2810	153	Compounds, tree or weed killing, liquid (toxic)
[redacted]		
2810	153	Poisonous liquid, organic, n.o.s.

ID No.	Guide No.	Name of Material
[redacted]		
2810	153	Toxic liquid, organic, n.o.s.
[redacted]		
2811	154	Poisonous solid, organic, n.o.s.
2811	154	Toxic solid, organic, n.o.s.
2812	154	Sodium aluminate, solid
2813	138	Water-reactive solid, n.o.s.
2814	158	Infectious substance, affecting humans
2815	153	N-Aminoethylpiperazine
2817	154	Ammonium bifluoride, solution
2817	154	Ammonium hydrogendifluoride, solution
2818	154	Ammonium polysulfide, solution
2818	154	Ammonium polysulphide, solution
2819	153	Amyl acid phosphate
2820	153	Butyric acid
2821	153	Phenol solution
2822	153	2-Chloropyridine
2823	153	Crotonic acid
2823	153	Crotonic acid, liquid
2823	153	Crotonic acid, solid
[redacted]		
2829	153	Caproic acid
2829	153	Hexanoic acid
2830	139	Lithium ferrosilicon
2831	160	1,1,1-Trichloroethane

ID No.	Guide No.	Name of Material
2834	154	Phosphorous acid
2835	138	Sodium aluminum hydride
2837	154	Bisulfates, aqueous solution
2837	154	Bisulphates, aqueous solution
2837	154	Sodium bisulfate, solution
2837	154	Sodium bisulphate, solution
2838	129P	Vinyl butyrate, stabilized
2839	153	Aldol
2840	129	Butyraldoxime
2841	131	Di-n-amylamine
2842	129	Nitroethane
2844	138	Calcium manganese silicon
[redacted]		
2845	135	Pyrophoric liquid, organic, n.o.s.
2846	135	Pyrophoric solid, organic, n.o.s.
2849	153	3-Chloropropanol-1
2850	128	Propylene tetramer
2851	157	Boron trifluoride, dihydrate
2852	113	Dipicryl sulfide, wetted with not less than 10% water
2852	113	Dipicryl sulphide, wetted with not less than 10% water
2853	151	Magnesium fluorosilicate
2853	151	Magnesium silicofluoride
2854	151	Ammonium fluorosilicate
2854	151	Ammonium silicofluoride
2855	151	Zinc fluorosilicate
2855	151	Zinc silicofluoride
2856	151	Fluorosilicates, n.o.s.
2856	151	Silicofluorides, n.o.s.

ID No.	Guide No.	Name of Material
2857	126	Refrigerating machines, containing Ammonia solutions (UN2672)
2857	126	Refrigerating machines, containing non-flammable, non-poisonous gases
2857	126	Refrigerating machines, containing non-flammable, non-toxic gases
2858	170	Zirconium, dry, coiled wire, finished metal sheets or strip
2859	154	Ammonium metavanadate
2861	151	Ammonium polyvanadate
2862	151	Vanadium pentoxide
2863	154	Sodium ammonium vanadate
2864	151	Potassium metavanadate
2865	154	Hydroxylamine sulfate
2865	154	Hydroxylamine sulphate
2869	157	Titanium trichloride mixture
2870	135	Aluminum borohydride
2870	135	Aluminum borohydride in devices
2871	170	Antimony powder
2872	159	Dibromochloropropanes
2873	153	Dibutylaminoethanol
2874	153	Furfuryl alcohol
2875	151	Hexachlorophene
2876	153	Resorcinol
2878	170	Titanium sponge granules
2878	170	Titanium sponge powders
2879	157	Selenium oxychloride
2880	140	Calcium hypochlorite, hydrated, with not less than 5.5% but not more than 16% water

ID No.	Guide No.	Name of Material
2880	140	Calcium hypochlorite, hydrated mixture, with not less than 5.5% but not more than 16% water
2881	135	Metal catalyst, dry
2881	135	Nickel catalyst, dry
2900	158	Infectious substance, affecting animals only
[redacted]		
2902	151	Pesticide, liquid, poisonous, n.o.s.
2902	151	Pesticide, liquid, toxic, n.o.s.
2903	131	Pesticide, liquid, poisonous, flammable, n.o.s.
2903	131	Pesticide, liquid, toxic, flammable, n.o.s.
2904	154	Chlorophenolates, liquid
2904	154	Phenolates, liquid
2905	154	Chlorophenolates, solid
2905	154	Phenolates, solid
2907	133	Isosorbide dinitrate mixture
2908	161	Radioactive material, excepted package, empty packaging
2909	161	Radioactive material, excepted package, articles manufactured from depleted Uranium
2909	161	Radioactive material, excepted package, articles manufactured from natural Thorium
2909	161	Radioactive material, excepted package, articles manufactured from natural Uranium
2910	161	Radioactive material, excepted package, limited quantity of material

ID No.	Guide No.	Name of Material
2911	161	Radioactive material, excepted package, instruments or articles
2912	162	Radioactive material, low specific activity (LSA-I), non fissile or fissile-excepted
2913	162	Radioactive material, surface contaminated objects (SCO-I), non fissile or fissile-excepted
2913	162	Radioactive material, surface contaminated objects (SCO-II), non fissile or fissile-excepted
2915	163	Radioactive material, Type A package, non-special form, non fissile or fissile-excepted
2916	163	Radioactive material, Type B(U) package, non fissile or fissile-excepted
2917	163	Radioactive material, Type B(M) package, non fissile or fissile-excepted
2919	163	Radioactive material, transported under special arrangement, non fissile or fissile-excepted
2920	132	Corrosive liquid, flammable, n.o.s.
2921	134	Corrosive solid, flammable, n.o.s.
2922	154	Corrosive liquid, poisonous, n.o.s.
2922	154	Corrosive liquid, toxic, n.o.s.
2923	154	Corrosive solid, poisonous, n.o.s.
2923	154	Corrosive solid, toxic, n.o.s.
2924	132	Flammable liquid, corrosive, n.o.s
2925	134	Flammable solid, corrosive, organic, n.o.s.

ID No.	Guide No.	Name of Material
2926	134	Flammable solid, poisonous, organic, n.o.s.
2926	134	Flammable solid, toxic, organic, n.o.s.
[redacted]		
2927	154	Poisonous liquid, corrosive, organic, n.o.s.
2927	154	Toxic liquid, corrosive, organic, n.o.s.
2928	154	Poisonous solid, corrosive, organic, n.o.s.
2928	154	Toxic solid, corrosive, organic, n.o.s.
2929	131	Poisonous liquid, flammable, organic, n.o.s.
2929	131	Toxic liquid, flammable, organic, n.o.s.
2930	134	Poisonous solid, flammable, organic, n.o.s.
2930	134	Toxic solid, flammable, organic, n.o.s.
2931	151	Vanadyl sulfate
2931	151	Vanadyl sulphate
2933	129	Methyl 2-chloropropionate
2934	129	Isopropyl 2-chloropropionate
2935	129	Ethyl 2-chloropropionate
2936	153	Thiolactic acid
2937	153	alpha-Methylbenzyl alcohol
2937	153	alpha-Methylbenzyl alcohol, liquid
2937	153	Methylbenzyl alcohol (alpha)
2940	135	Cyclooctadiene phosphines
2940	135	9-Phosphabicyclononanes
2941	153	Fluoroanilines

ID No.	Guide No.	Name of Material
2942	153	2-Trifluoromethylaniline
2943	129	Tetrahydrofurfurylamine
2945	132	N-Methylbutylamine
2946	153	2-Amino-5-diethylaminopentane
2947	155	Isopropyl chloroacetate
2948	153	3-Trifluoromethylaniline
2949	154	Sodium hydrosulfide, hydrated, with not less than 25% water of crystallization
2949	154	Sodium hydrosulfide, with not less than 25% water of crystallization
2949	154	Sodium hydrosulphide, hydrated, with not less than 25% water of crystallization
2949	154	Sodium hydrosulphide, with not less than 25% water of crystallization
2950	138	Magnesium granules, coated
2956	149	5-tert-Butyl-2,4,6-trinitro-m-xylene
2956	149	Musk xylene
2965	139	Boron trifluoride dimethyl etherate
2966	153	Thioglycol
2967	154	Sulfamic acid
2967	154	Sulphamic acid
2968	135	Maneb, stabilized
2968	135	Maneb preparation, stabilized
2969	171	Castor beans, meal, pomace or flake
[illegible]		
[illegible]		

ID No.	Guide No.	Name of Material
[illegible]		
[illegible]		
2983	129P	Ethylene oxide and Propylene oxide mixture, with not more than 30% Ethylene oxide
2983	129P	Propylene oxide and Ethylene oxide mixture, with not more than 30% Ethylene oxide
2984	140	Hydrogen peroxide, aqueous solution, with not less than 8% but less than 20% Hydrogen peroxide
[illegible]		
[illegible]		
[illegible]		
[illegible]		
2989	133	Lead phosphite, dibasic
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, toxic
2993	131	Arsenical pesticide, liquid, poisonous, flammable
2993	131	Arsenical pesticide, liquid, toxic, flammable
2994	151	Arsenical pesticide, liquid, poisonous

ID No.	Guide No.	Name of Material
2994	151	Arsenical pesticide, liquid, toxic
2995	131	Organochlorine pesticide, liquid, poisonous, flammable
2995	131	Organochlorine pesticide, liquid, toxic, flammable
2996	151	Organochlorine pesticide, liquid, poisonous
2996	151	Organochlorine pesticide, liquid, toxic
2997	131	Triazine pesticide, liquid, poisonous, flammable
2997	131	Triazine pesticide, liquid, toxic, flammable
2998	151	Triazine pesticide, liquid, poisonous
2998	151	Triazine pesticide, liquid, toxic
3002	151	Phenyl urea pesticide, liquid, poisonous
3002	151	Phenyl urea pesticide, liquid, toxic
3005	131	Thiocarbamate pesticide, liquid, poisonous, flammable
3005	131	Thiocarbamate pesticide, liquid, toxic, flammable
3006	151	Thiocarbamate pesticide, liquid, poisonous
3006	151	Thiocarbamate pesticide, liquid, toxic
3009	131	Copper based pesticide, liquid, poisonous, flammable
3009	131	Copper based pesticide, liquid, toxic, flammable
3010	151	Copper based pesticide, liquid, poisonous
3010	151	Copper based pesticide, liquid, toxic
3011	131	Mercury based pesticide, liquid, poisonous, flammable

ID No.	Guide No.	Name of Material
3011	131	Mercury based pesticide, liquid, toxic, flammable
3012	151	Mercury based pesticide, liquid, poisonous
3012	151	Mercury based pesticide, liquid, toxic
3013	131	Substituted nitrophenol pesticide, liquid, poisonous, flammable
3013	131	Substituted nitrophenol pesticide, liquid, toxic, flammable
3014	153	Substituted nitrophenol pesticide, liquid, poisonous
3014	153	Substituted nitrophenol pesticide, liquid, toxic
3015	131	Bipyridilium pesticide, liquid, poisonous, flammable
3015	131	Bipyridilium pesticide, liquid, toxic, flammable
3016	151	Bipyridilium pesticide, liquid, poisonous
3016	151	Bipyridilium pesticide, liquid, toxic
3017	131	Organophosphorus pesticide, liquid, poisonous, flammable
3017	131	Organophosphorus pesticide, liquid, toxic, flammable
3018	152	Organophosphorus pesticide, liquid, poisonous
3018	152	Organophosphorus pesticide, liquid, toxic
3019	131	Organotin pesticide, liquid, poisonous, flammable
3019	131	Organotin pesticide, liquid, toxic, flammable
3020	153	Organotin pesticide, liquid, poisonous
3020	153	Organotin pesticide, liquid, toxic

ID No.	Guide No.	Name of Material
3021	131	Pesticide, liquid, flammable, poisonous, n.o.s.
3021	131	Pesticide, liquid, flammable, toxic, n.o.s.
3022	127P	1,2-Butylene oxide, stabilized
[illegible]		
3024	131	Coumarin derivative pesticide, liquid, flammable, poisonous
3024	131	Coumarin derivative pesticide, liquid, flammable, toxic
3025	131	Coumarin derivative pesticide, liquid, poisonous, flammable
3025	131	Coumarin derivative pesticide, liquid, toxic, flammable
3026	151	Coumarin derivative pesticide, liquid, poisonous
3026	151	Coumarin derivative pesticide, liquid, toxic
3027	151	Coumarin derivative pesticide, solid, poisonous
3027	151	Coumarin derivative pesticide, solid, toxic
3028	154	Batteries, dry, containing Potassium hydroxide solid
[illegible]		
[illegible]		
[illegible]		
3050	138	Metal alkyl hydrides, water-reactive, n.o.s.
3050	138	Metal aryl hydrides, water-reactive, n.o.s.
3051	135	Aluminum alkyls
[illegible]		
[illegible]		
3053	135	Magnesium alkyls

ID No.	Guide No.	Name of Material
3054	129	Cyclohexanethiol
3054	129	Cyclohexyl mercaptan
3055	154	2-(2-Aminoethoxy)ethanol
3056	129	n-Heptaldehyde
[illegible]		
3064	127	Nitroglycerin, solution in alcohol, with more than 1% but not more than 5% Nitroglycerin
3065	127	Alcoholic beverages
3066	153	Paint (corrosive)
3066	153	Paint related material (corrosive)
3070	126	Dichlorodifluoromethane and Ethylene oxide mixture, with not more than 12.5% Ethylene oxide
3070	126	Ethylene oxide and Dichlorodifluoromethane mixture, with not more than 12.5% Ethylene oxide
3071	131	Mercaptan mixture, liquid, poisonous, flammable, n.o.s.
3071	131	Mercaptan mixture, liquid, toxic, flammable, n.o.s.
3071	131	Mercaptans, liquid, poisonous, flammable, n.o.s.
3071	131	Mercaptans, liquid, toxic, flammable, n.o.s.
3072	171	Life-saving appliances, not self-inflating
3073	131P	Vinylpyridines, stabilized
3076	138	Aluminum alkyl hydrides
3077	171	Environmentally hazardous substance, solid, n.o.s.
3077	171	Hazardous waste, solid, n.o.s.
3077	171	Other regulated substances, solid, n.o.s.

ID No.	Guide No.	Name of Material
3078	138	Cerium, turnings or gritty powder
[illegible]		
3080	155	Isocyanate solution, poisonous, flammable, n.o.s.
3080	155	Isocyanate solution, toxic, flammable, n.o.s.
3080	155	Isocyanates, poisonous, flammable, n.o.s.
3080	155	Isocyanates, toxic, flammable, n.o.s.
3082	171	Environmentally hazardous substance, liquid, n.o.s.
3082	171	Hazardous waste, liquid, n.o.s.
3082	171	Other regulated substances, liquid, n.o.s.
[illegible]		
3084	140	Corrosive solid, oxidizing, n.o.s.
3085	140	Oxidizing solid, corrosive, n.o.s.
3086	141	Poisonous solid, oxidizing, n.o.s.
3086	141	Toxic solid, oxidizing, n.o.s.
3087	141	Oxidizing solid, poisonous, n.o.s.
3087	141	Oxidizing solid, toxic, n.o.s.
3088	135	Self-heating solid, organic, n.o.s.
3089	170	Metal powder, flammable, n.o.s.
3090	138	Lithium batteries
3090	138	Lithium metal batteries (including lithium alloy batteries)
3091	138	Lithium batteries contained in equipment
3091	138	Lithium batteries packed with equipment

ID No.	Guide No.	Name of Material
3091	138	Lithium metal batteries contained in equipment (including lithium alloy batteries)
3091	138	Lithium metal batteries packed with equipment (including lithium alloy batteries)
3092	129	1-Methoxy-2-propanol
3093	140	Corrosive liquid, oxidizing, n.o.s.
3094	138	Corrosive liquid, water-reactive, n.o.s.
3095	136	Corrosive solid, self-heating, n.o.s.
3096	138	Corrosive solid, water-reactive, n.o.s.
3097	140	Flammable solid, oxidizing, n.o.s.
3098	140	Oxidizing liquid, corrosive, n.o.s.
3099	142	Oxidizing liquid, poisonous, n.o.s.
3099	142	Oxidizing liquid, toxic, n.o.s.
3100	135	Oxidizing solid, self-heating, n.o.s.
3101	146	Organic peroxide type B, liquid
3102	146	Organic peroxide type B, solid
3103	146	Organic peroxide type C, liquid
3104	146	Organic peroxide type C, solid
3105	145	Organic peroxide type D, liquid
3106	145	Organic peroxide type D, solid
3107	145	Organic peroxide type E, liquid
3108	145	Organic peroxide type E, solid
3109	145	Organic peroxide type F, liquid
3110	145	Organic peroxide type F, solid
3111	148	Organic peroxide type B, liquid, temperature controlled

ID No.	Guide No.	Name of Material
3112	148	Organic peroxide type B, solid, temperature controlled
3113	148	Organic peroxide type C, liquid, temperature controlled
3114	148	Organic peroxide type C, solid, temperature controlled
3115	148	Organic peroxide type D, liquid, temperature controlled
3116	148	Organic peroxide type D, solid, temperature controlled
3117	148	Organic peroxide type E, liquid, temperature controlled
3118	148	Organic peroxide type E, solid, temperature controlled
3119	148	Organic peroxide type F, liquid, temperature controlled
3120	148	Organic peroxide type F, solid, temperature controlled
3121	144	Oxidizing solid, water-reactive, n.o.s.
3122	142	Poisonous liquid, oxidizing, n.o.s.
3122	142	Toxic liquid, oxidizing, n.o.s.
3123	139	Poisonous liquid, water-reactive, n.o.s.
3123	139	Toxic liquid, water-reactive, n.o.s.
3124	136	Poisonous solid, self-heating, n.o.s.
3124	136	Toxic solid, self-heating, n.o.s.
3125	139	Poisonous solid, water-reactive, n.o.s.
3125	139	Toxic solid, water-reactive, n.o.s.
3126	136	Self-heating solid, corrosive, organic, n.o.s.
3127	135	Self-heating solid, oxidizing, n.o.s.
3128	136	Self-heating solid, poisonous, organic, n.o.s.
3128	136	Self-heating solid, toxic, organic, n.o.s.
3129	138	Water-reactive liquid, corrosive, n.o.s.
3130	139	Water-reactive liquid, poisonous, n.o.s.
3130	139	Water-reactive liquid, toxic, n.o.s.
3131	138	Water-reactive solid, corrosive, n.o.s.
3132	138	Water-reactive solid, flammable, n.o.s.
3133	138	Water-reactive solid, oxidizing, n.o.s.
3134	139	Water-reactive solid, poisonous, n.o.s.
3134	139	Water-reactive solid, toxic, n.o.s.
3135	138	Water-reactive solid, self-heating, n.o.s.
3136	120	Trifluoromethane, refrigerated liquid
3137	140	Oxidizing solid, flammable, n.o.s.
3138	115	Acetylene, Ethylene and Propylene in mixture, refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than 6% Propylene
3138	115	Ethylene, Acetylene and Propylene in mixture, refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than 6% Propylene

ID No.	Guide No.	Name of Material
3138	115	Propylene, Ethylene and Acetylene in mixture, refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than 6% Propylene
3139	140	Oxidizing liquid, n.o.s.
3140	151	Alkaloids, liquid, n.o.s. (poisonous)
3140	151	Alkaloid salts, liquid, n.o.s. (poisonous)
3141	157	Antimony compound, inorganic, liquid, n.o.s.
3142	151	Disinfectant, liquid, poisonous, n.o.s.
3142	151	Disinfectant, liquid, toxic, n.o.s.
3143	151	Dye, solid, poisonous, n.o.s.
3143	151	Dye, solid, toxic, n.o.s.
3143	151	Dye intermediate, solid, poisonous, n.o.s.
3143	151	Dye intermediate, solid, toxic, n.o.s.
3144	151	Nicotine compound, liquid, n.o.s.
3144	151	Nicotine preparation, liquid, n.o.s.
3145	153	Alkylphenols, liquid, n.o.s. (including C2-C12 homologues)
3146	153	Organotin compound, solid, n.o.s.
3147	154	Dye, solid, corrosive, n.o.s.
3147	154	Dye intermediate, solid, corrosive, n.o.s.
3148	138	Water-reactive liquid, n.o.s.
3149	140	Hydrogen peroxide and Peroxyacetic acid mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized
3149	140	Peroxyacetic acid and hydrogen peroxide mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized
3150	115	Devices, small, hydrocarbon gas powered, with release device
3150	115	Hydrocarbon gas refills for small devices, with release device
3151	171	Halogenated monomethyldiphenylmethanes, liquid
3151	171	Polyhalogenated biphenyls, liquid
3151	171	Polyhalogenated terphenyls, liquid
3152	171	Halogenated monomethyldiphenylmethanes, solid
3152	171	Polyhalogenated biphenyls, solid
3152	171	Polyhalogenated terphenyls, solid
3153	115	Perfluoro(methyl vinyl ether)
3154	115	Perfluoro(ethyl vinyl ether)
3155	154	Pentachlorophenol
3156	122	Compressed gas, oxidizing, n.o.s.
3157	122	Liquefied gas, oxidizing, n.o.s.
3158	120	Gas, refrigerated liquid, n.o.s.
3159	126	Refrigerant gas R-134a
3159	126	1,1,1,2-Tetrafluoroethane

ID No.	Guide No.	Name of Material
3161	115	Liquefied gas, flammable, n.o.s.
3163	126	Liquefied gas, n.o.s.
3164	126	Articles, pressurized, hydraulic (containing non-flammable gas)
3164	126	Articles, pressurized, pneumatic (containing non-flammable gas)
3165	131	Aircraft hydraulic power unit fuel tank
3166	115	Engine, fuel cell, flammable gas powered
3166	128	Engine, fuel cell, flammable liquid powered
3166	128	Engine, internal combustion
3166	115	Engines, internal combustion, flammable gas powered
3166	128	Engines, internal combustion, flammable liquid powered
3166	115	Vehicle, flammable gas powered
3166	128	Vehicle, flammable liquid powered
3166	115	Vehicle, fuel cell, flammable gas powered
3166	128	Vehicle, fuel cell, flammable liquid powered
3167	115	Gas sample, non-pressurized, flammable, n.o.s., not refrigerated liquid
3168	119	Gas sample, non-pressurized, poisonous, flammable, n.o.s., not refrigerated liquid

ID No.	Guide No.	Name of Material
3168	119	Gas sample, non-pressurized, toxic, flammable, n.o.s., not refrigerated liquid
3169	123	Gas sample, non-pressurized, poisonous, n.o.s., not refrigerated liquid
3169	123	Gas sample, non-pressurized, toxic, n.o.s., not refrigerated liquid
3170	138	Aluminum dross
3170	138	Aluminum remelting by-products
3170	138	Aluminum smelting by-products
3171	154	Battery-powered equipment (wet battery)
3171	147	Battery-powered equipment (with lithium ion batteries)
3171	138	Battery-powered equipment (with lithium metal batteries)
3171	138	Battery-powered equipment (with sodium batteries)
3171	154	Battery-powered vehicle (wet battery)
3171	147	Battery-powered vehicle (with lithium ion batteries)
3171	138	Battery-powered vehicle (with sodium batteries)
3171	154	Wheelchair, electric, with batteries
3172	153	Toxins, extracted from living sources, liquid, n.o.s.
3172	153	Toxins, extracted from living sources, solid, n.o.s.
3174	135	Titanium disulfide
3174	135	Titanium disulphide
3175	133	Solids containing flammable liquid, n.o.s.
3176	133	Flammable solid, organic, molten, n.o.s.
3178	133	Flammable solid, inorganic, n.o.s.
3178	133	Smokeless powder for small arms
3179	134	Flammable solid, poisonous, inorganic, n.o.s.
3179	134	Flammable solid, toxic, inorganic, n.o.s.
3180	134	Flammable solid, corrosive, inorganic, n.o.s.
3181	133	Metal salts of organic compounds, flammable, n.o.s.
3182	170	Metal hydrides, flammable, n.o.s.
3183	135	Self-heating liquid, organic, n.o.s.
3184	136	Self-heating liquid, poisonous, organic, n.o.s.
3184	136	Self-heating liquid, toxic, organic, n.o.s.
3185	136	Self-heating liquid, corrosive, organic, n.o.s.
3186	135	Self-heating liquid, inorganic, n.o.s.
3187	136	Self-heating liquid, poisonous, inorganic, n.o.s.
3187	136	Self-heating liquid, toxic, inorganic, n.o.s.
3188	136	Self-heating liquid, corrosive, inorganic, n.o.s.
3189	135	Metal powder, self-heating, n.o.s.
3190	135	Self-heating solid, inorganic, n.o.s.
3191	136	Self-heating solid, poisonous, inorganic, n.o.s.
3191	136	Self-heating solid, toxic, inorganic, n.o.s.

ID No.	Guide No.	Name of Material
3192	136	Self-heating solid, corrosive, inorganic, n.o.s.
3194	135	Pyrophoric liquid, inorganic, n.o.s.
3200	135	Pyrophoric solid, inorganic, n.o.s.
3203	135	Pyrophoric organometallic compound, water-reactive, n.o.s.
3205	135	Alkaline earth metal alcoholates, n.o.s.
3206	136	Alkali metal alcoholates, self-heating, corrosive, n.o.s.
3207	138	Organometallic compound, water-reactive, flammable, n.o.s.
3207	138	Organometallic compound dispersion, water-reactive, flammable, n.o.s.
3207	138	Organometallic compound solution, water-reactive, flammable, n.o.s.
3208	138	Metallic substance, water-reactive, n.o.s.
3209	138	Metallic substance, water-reactive, self-heating, n.o.s.
3210	140	Chlorates, inorganic, aqueous solution, n.o.s.
3211	140	Perchlorates, inorganic, aqueous solution, n.o.s.
3212	140	Hypochlorites, inorganic, n.o.s.
3213	140	Bromates, inorganic, aqueous solution, n.o.s.
3214	140	Permanganates, inorganic, aqueous solution, n.o.s.
3215	140	Persulfates, inorganic, n.o.s.
3215	140	Persulphates, inorganic, n.o.s.
3216	140	Persulfates, inorganic, aqueous solution, n.o.s.
3216	140	Persulphates, inorganic, aqueous solution, n.o.s.
3218	140	Nitrates, inorganic, aqueous solution, n.o.s.
3219	140	Nitrites, inorganic, aqueous solution, n.o.s.
3220	126	Pentafluoroethane
3220	126	Refrigerant gas R-125
3221	149	Self-reactive liquid type B
3222	149	Self-reactive solid type B
3223	149	Self-reactive liquid type C
3224	149	Self-reactive solid type C
3225	149	Self-reactive liquid type D
3226	149	Self-reactive solid type D
3227	149	Self-reactive liquid type E
3228	149	Self-reactive solid type E
3229	149	Self-reactive liquid type F
3230	149	Self-reactive solid type F
3231	150	Self-reactive liquid type B, temperature controlled
3232	150	Self-reactive solid type B, temperature controlled
3233	150	Self-reactive liquid type C, temperature controlled
3234	150	Self-reactive solid type C, temperature controlled
3235	150	Self-reactive liquid type D, temperature controlled
3236	150	Self-reactive solid type D, temperature controlled
3237	150	Self-reactive liquid type E, temperature controlled
3238	150	Self-reactive solid type E, temperature controlled
3239	150	Self-reactive liquid type F, temperature controlled

ID No.	Guide No.	Name of Material
3240	150	Self-reactive solid type F, temperature controlled
3241	133	2-Bromo-2-nitropropane-1, 3-diol
3242	149	Azodicarbonamide
3243	151	Solids containing poisonous liquid, n.o.s.
3243	151	Solids containing toxic liquid, n.o.s.
3244	154	Solids containing corrosive liquid, n.o.s.
3245	171	Genetically modified micro-organisms
3245	171	Genetically modified organisms
3247	140	Sodium peroxoborate, anhydrous
3248	131	Medicine, liquid, flammable, poisonous, n.o.s.
3248	131	Medicine, liquid, flammable, toxic, n.o.s.
3249	151	Medicine, solid, poisonous, n.o.s.
3249	151	Medicine, solid, toxic, n.o.s.
3250	153	Chloroacetic acid, molten
3251	133	Isosorbide-5-mononitrate
3252	115	Difluoromethane
3252	115	Refrigerant gas R-32
3253	154	Disodium trioxosilicate
3254	135	Tributylphosphane
3255	135	tert-Butyl hypochlorite
3256	128	Elevated temperature liquid, flammable, n.o.s., with flash point above 37.8°C (100°F), at or above its flash point
3256	128	Elevated temperature liquid, flammable, n.o.s., with flash point above 60°C (140°F), at or above its flash point
3257	128	Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point
3258	171	Elevated temperature solid, n.o.s., at or above 240°C (464°F)
3259	154	Amines, solid, corrosive, n.o.s.
3259	154	Polyamines, solid, corrosive, n.o.s.
3260	154	Corrosive solid, acidic, inorganic, n.o.s.
3261	154	Corrosive solid, acidic, organic, n.o.s.
3262	154	Corrosive solid, basic, inorganic, n.o.s.
3263	154	Corrosive solid, basic, organic, n.o.s.
3264	154	Corrosive liquid, acidic, inorganic, n.o.s.
3265	153	Corrosive liquid, acidic, organic, n.o.s.
3266	154	Corrosive liquid, basic, inorganic, n.o.s.
3267	153	Corrosive liquid, basic, organic, n.o.s.
3268	171	Air bag inflators
3268	171	Air bag modules
3268	171	Safety devices
3268	171	Seat-belt pre-tensioners
3269	128	Polyester resin kit
3269	128	Polyester resin kit, liquid base material
3270	133	Nitrocellulose membrane filters

ID No.	Guide No.	Name of Material
3271	127	Ethers, n.o.s.
3272	127	Esters, n.o.s.
3273	131	Nitriles, flammable, poisonous, n.o.s.
3273	131	Nitriles, flammable, toxic, n.o.s.
3274	132	Alcoholates solution, n.o.s., in alcohol
3277	154	Chloroformates, poisonous, corrosive, n.o.s.
3277	154	Chloroformates, toxic, corrosive, n.o.s.
3282	151	Organometallic compound, liquid, poisonous, n.o.s.
3282	151	Organometallic compound, liquid, toxic, n.o.s.
3282	151	Organometallic compound, poisonous, liquid, n.o.s.
3282	151	Organometallic compound, poisonous, n.o.s.
3282	151	Organometallic compound, toxic, liquid, n.o.s.
3282	151	Organometallic compound, toxic, n.o.s.
3283	151	Selenium compound, n.o.s.
3283	151	Selenium compound, solid, n.o.s.
3284	151	Tellurium compound, n.o.s.
3285	151	Vanadium compound, n.o.s.
3286	131	Flammable liquid, poisonous, corrosive, n.o.s.
3286	131	Flammable liquid, toxic, corrosive, n.o.s.
3287	151	Poisonous liquid, inorganic, n.o.s.
3287	151	Toxic liquid, inorganic, n.o.s.
3288	151	Poisonous solid, inorganic, n.o.s.
3288	151	Toxic solid, inorganic, n.o.s.
3289	154	Poisonous liquid, corrosive, inorganic, n.o.s.
3289	154	Toxic liquid, corrosive, inorganic, n.o.s.

ID No.	Guide No.	Name of Material
3290	154	Poisonous solid, corrosive, inorganic, n.o.s.
3290	154	Toxic solid, corrosive, inorganic, n.o.s.
3291	158	(Bio)Medical waste, n.o.s.
3291	158	Clinical waste, unspecified, n.o.s.
3291	158	Medical waste, n.o.s.
3291	158	Regulated medical waste, n.o.s.
3292	138	Batteries, containing Sodium
3292	138	Cells, containing Sodium
3292	138	Sodium, batteries containing
3293	152	Hydrazine, aqueous solution, with not more than 37% Hydrazine
3295	128	Hydrocarbons, liquid, n.o.s.
3296	126	Heptafluoropropane
3296	126	Refrigerant gas R-227
3297	126	Chlorotetrafluoroethane and Ethylene oxide mixture, with not more than 8.8% Ethylene oxide
3297	126	Ethylene oxide and Chlorotetrafluoroethane mixture, with not more than 8.8% Ethylene oxide
3298	126	Ethylene oxide and Pentafluoroethane mixture, with not more than 7.9% Ethylene oxide
3298	126	Pentafluoroethane and Ethylene oxide mixture, with not more than 7.9% Ethylene oxide
3299	126	Ethylene oxide and Tetrafluoroethane mixture, with not more than 5.6% Ethylene oxide
3299	126	Tetrafluoroethane and Ethylene oxide mixture, with not more than 5.6% Ethylene oxide
3301	136	Corrosive liquid, self-heating, n.o.s.
3302	152	2-Dimethylaminoethyl acrylate

ID No.	Guide No.	Name of Material

ID No.	Guide No.	Name of Material

ID No.	Guide No.	Name of Material
3311	122	Gas, refrigerated liquid, oxidizing, n.o.s.
3312	115	Gas, refrigerated liquid, flammable, n.o.s.
3313	135	Organic pigments, self-heating
3314	171	Plastic molding compound
3314	171	Plastics moulding compound
3315	151	Chemical sample, poisonous
3315	151	Chemical sample, toxic
3316	171	Chemical kit
3316	171	First aid kit
3317	113	2-Amino-4,6-dinitrophenol, wetted with not less than 20% water
3319	113	Nitroglycerin mixture, desensitized, solid, n.o.s., with more than 2% but not more than 10% Nitroglycerin
3320	157	Sodium borohydride and Sodium hydroxide solution, with not more than 12% Sodium borohydride and not more than 40% Sodium hydroxide
3321	162	Radioactive material, low specific activity (LSA-II), non fissile or fissile-excepted
3322	162	Radioactive material, low specific activity (LSA-III), non fissile or fissile-excepted
3323	163	Radioactive material, Type C package, non-fissile or fissile excepted
3324	165	Radioactive material, low specific activity (LSA-II), fissile
3325	165	Radioactive material, low specific activity (LSA-III), fissile
3326	165	Radioactive material, surface contaminated objects (SCO-I), fissile
3326	165	Radioactive material, surface contaminated objects (SCO-II), fissile
3327	165	Radioactive material, Type A package, fissile, non-special form
3328	165	Radioactive material, Type B(U) package, fissile

ID No.	Guide No.	Name of Material
3329	165	Radioactive material, Type B(M) package, fissile
3330	165	Radioactive material, Type C package, fissile
3331	165	Radioactive material, transported under special arrangement, fissile
3332	164	Radioactive material, Type A package, special form, non fissile or fissile-excepted
3333	165	Radioactive material, Type A package, special form, fissile
3334	171	Aviation regulated liquid, n.o.s.
3334	171	Self-defense spray, non-pressurized
3335	171	Aviation regulated solid, n.o.s.
3336	130	Mercaptan mixture, liquid, flammable, n.o.s.
3336	130	Mercaptans, liquid, flammable, n.o.s.
3337	126	Refrigerant gas R-404A
3338	126	Refrigerant gas R-407A
3339	126	Refrigerant gas R-407B
3340	126	Refrigerant gas R-407C
3341	135	Thiourea dioxide
3342	135	Xanthates
3343	113	Nitroglycerin mixture, desensitized, liquid, flammable, n.o.s., with not more than 30% Nitroglycerin
3344	113	Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s., with more than 10% but not more than 20% PETN
3344	113	Pentaerythritol tetranitrate mixture, desensitized, solid, n.o.s., with more than 10% but not more than 20% PETN
3344	113	PETN mixture, desensitized, solid, n.o.s., with more than 10% but not more than 20% PETN
3345	153	Phenoxyacetic acid derivative pesticide, solid, poisonous
3345	153	Phenoxyacetic acid derivative pesticide, solid, toxic
3346	131	Phenoxyacetic acid derivative pesticide, liquid, flammable, poisonous
3346	131	Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic
3347	131	Phenoxyacetic acid derivative pesticide, liquid, poisonous, flammable
3347	131	Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable
3348	153	Phenoxyacetic acid derivative pesticide, liquid, poisonous
3348	153	Phenoxyacetic acid derivative pesticide, liquid, toxic
3349	151	Pyrethroid pesticide, solid, poisonous
3349	151	Pyrethroid pesticide, solid, toxic
3350	131	Pyrethroid pesticide, liquid, flammable, poisonous
3350	131	Pyrethroid pesticide, liquid, flammable, toxic
3351	131	Pyrethroid pesticide, liquid, poisonous, flammable
3351	131	Pyrethroid pesticide, liquid, toxic, flammable
3352	151	Pyrethroid pesticide, liquid, poisonous
3352	151	Pyrethroid pesticide, liquid, toxic

ID No.	Guide No.	Name of Material
3354	115	Insecticide gas, flammable, n.o.s.
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
[illegible]		
3356	140	Oxygen generator, chemical
3356	140	Oxygen generator, chemical, spent
3357	113	Nitroglycerin mixture, desensitized, liquid, n.o.s., with not more than 30% Nitroglycerin
3358	115	Refrigerating machines, containing flammable, non-poisonous, liquefied gas

ID No.	Guide No.	Name of Material
3358	115	Refrigerating machines, containing flammable, non-toxic, liquefied gas
3359	171	Fumigated cargo transport unit
3359	171	Fumigated unit
3360	133	Fibers, vegetable, dry
3360	133	Fibres, vegetable, dry
[illegible]		
[illegible]		
[illegible]		
[illegible]		
3363	171	Dangerous goods in apparatus
3363	171	Dangerous goods in machinery
3364	113	Picric acid, wetted with not less than 10% water
3364	113	Trinitrophenol, wetted with not less than 10% water
3365	113	Picryl chloride, wetted with not less than 10% water
3365	113	Trinitrochlorobenzene, wetted with not less than 10% water
3366	113	TNT, wetted with not less than 10% water
3366	113	Trinitrotoluene, wetted with not less than 10% water
3367	113	Trinitrobenzene, wetted with not less than 10% water
3368	113	Trinitrobenzoic acid, wetted with not less than 10% water
3369	113	Sodium dinitro-o-cresolate, wetted with not less than 10% water
3370	113	Urea nitrate, wetted with not less than 10% water

ID No.	Guide No.	Name of Material
3371	129	2-Methylbutanal
3373	158	Biological substance, category B
3374	116	Acetylene, solvent free
3375	140	Ammonium nitrate emulsion
3375	140	Ammonium nitrate gel
3375	140	Ammonium nitrate suspension
3376	113	4-Nitrophenylhydrazine, with not less than 30% water
3377	140	Sodium perborate monohydrate
3378	140	Sodium carbonate peroxyhydrate
3379	128	Desensitized explosive, liquid, n.o.s.
3380	133	Desensitized explosive, solid, n.o.s.
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ID No.	Guide No.	Name of Material
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[illegible]		
3391	135	Organometallic substance, solid, pyrophoric
3392	135	Organometallic substance, liquid, pyrophoric
3393	135	Organometallic substance, solid, pyrophoric, water-reactive

ID No.	Guide No.	Name of Material
3394	135	Organometallic substance, liquid, pyrophoric, water-reactive
3395	135	Organometallic substance, solid, water-reactive
3396	138	Organometallic substance, solid, water-reactive, flammable
3397	138	Organometallic substance, solid, water-reactive, self-heating
3398	135	Organometallic substance, liquid, water-reactive
3399	138	Organometallic substance, liquid, water-reactive, flammable
3400	138	Organometallic substance, solid, self-heating
3401	138	Alkali metal amalgam, solid
3402	138	Alkaline earth metal amalgam, solid
3403	138	Potassium, metal alloys, solid
3404	138	Potassium sodium alloys, solid
3404	138	Sodium potassium alloys, solid
3405	141	Barium chlorate, solution
3406	141	Barium perchlorate, solution
3407	140	Chlorate and Magnesium chloride mixture, solution
3407	140	Magnesium chloride and Chlorate mixture, solution
3408	141	Lead perchlorate, solution
3409	152	Chloronitrobenzenes, liquid
3410	153	4-Chloro-o-toluidine hydrochloride, solution
3411	153	beta-Naphthylamine, solution
3411	153	Naphthylamine (beta), solution
3412	153	Formic acid, with not less than 5% but less than 10% acid

ID No.	Guide No.	Name of Material
3412	153	Formic acid, with not less than 10% but not more than 85% acid
3413	157	Potassium cyanide, solution
3414	157	Sodium cyanide, solution
3415	154	Sodium fluoride, solution
3416	153	Chloroacetophenone, liquid
[illegible]		
3417	152	Xylyl bromide, solid
3418	151	2,4-Toluenediamine, solution
3418	151	2,4-Toluylenediamine, solution
3419	157	Boron trifluoride acetic acid complex, solid
3420	157	Boron trifluoride propionic acid complex, solid
3421	154	Potassium hydrogen difluoride, solution
3422	154	Potassium fluoride, solution
3423	153	Tetramethylammonium hydroxide, solid
3424	141	Ammonium dinitro-o-cresolate, solution
3425	156	Bromoacetic acid, solid
3426	153P	Acrylamide, solution
3427	153	Chlorobenzyl chlorides, solid
3428	156	3-Chloro-4-methylphenyl isocyanate, solid
3429	153	Chlorotoluidines, liquid
3430	153	Xylenols, liquid
3431	152	Nitrobenzotrifluorides, solid
3432	171	Polychlorinated biphenyls, solid
3433	135	Lithium alkyls, solid
3434	153	Nitrocresols, liquid
3435	153	Hydroquinone, solution

ID No.	Guide No.	Name of Material
3436	151	Hexafluoroacetone hydrate, solid
3437	152	Chlorocresols, solid
3438	153	alpha-Methylbenzyl alcohol, solid
3439	151	Nitriles, poisonous, solid, n.o.s.
3439	151	Nitriles, solid, poisonous, n.o.s.
3439	151	Nitriles, solid, toxic, n.o.s.
3439	151	Nitriles, toxic, solid, n.o.s.
3440	151	Selenium compound, liquid, n.o.s.
3441	153	Chlorodinitrobenzenes, solid
3442	153	Dichloroanilines, solid
3443	152	Dinitrobenzenes, solid
3444	151	Nicotine hydrochloride, solid
3445	151	Nicotine sulfate, solid
3445	151	Nicotine sulphate, solid
3446	152	Nitrotoluenes, solid
3447	152	Nitroxylenes, solid
3448	159	Tear gas substance, solid, n.o.s.
3449	159	Bromobenzyl cyanides, solid
3450	151	Diphenylchloroarsine, solid
3451	153	Toluidines, solid
3452	153	Xylidines, solid
3453	154	Phosphoric acid, solid
3454	152	Dinitrotoluenes, solid
3455	153	Cresols, solid
[illegible]		
[illegible]		
3457	152	Chloronitrotoluenes, solid
3458	152	Nitroanisoles, solid
3459	152	Nitrobromobenzenes, solid

ID No.	Guide No.	Name of Material
3460	153	N-Ethylbenzyltoluidines, solid
[illegible]		
3462	153	Toxins, extracted from living sources, solid, n.o.s.
3463	132	Propionic acid, with not less than 90% acid
3464	151	Organophosphorus compound, poisonous, solid, n.o.s.
3464	151	Organophosphorus compound, solid, poisonous, n.o.s.
3464	151	Organophosphorus compound, solid, toxic, n.o.s.
3464	151	Organophosphorus compound, toxic, solid, n.o.s.
3465	151	Organoarsenic compound, solid, n.o.s.
3466	151	Metal carbonyls, solid, n.o.s.
3467	151	Organometallic compound, poisonous, solid, n.o.s.
3467	151	Organometallic compound, solid, poisonous, n.o.s.
3467	151	Organometallic compound, solid, toxic, n.o.s.
3467	151	Organometallic compound, toxic, solid, n.o.s.
3468	115	Hydrogen in a metal hydride storage system
3468	115	Hydrogen in a metal hydride storage system contained in equipment
3468	115	Hydrogen in a metal hydride storage system packed with equipment
3469	132	Paint, flammable, corrosive
3469	132	Paint related material, flammable, corrosive
3470	132	Paint, corrosive, flammable

ID No.	Guide No.	Name of Material
3470	132	Paint related material, corrosive, flammable
3471	154	Hydrogendifluorides, solution, n.o.s.
3472	153	Crotonic acid, liquid
3473	128	Fuel cell cartridges, contained in equipment, containing flammable liquids
3473	128	Fuel cell cartridges containing flammable liquids
3473	128	Fuel cell cartridges packed with equipment, containing flammable liquids
3474	113	1-Hydroxybenzotriazole, anhydrous, wetted with not less than 20% water
3474	113	1-Hydroxybenzotriazole, monohydrate
3475	127	Ethanol and gasoline mixture, with more than 10% ethanol
3475	127	Ethanol and motor spirit mixture, with more than 10% ethanol
3475	127	Ethanol and petrol mixture, with more than 10% ethanol
3475	127	Gasoline and ethanol mixture, with more than 10% ethanol
3475	127	Motor spirit and ethanol mixture, with more than 10% ethanol
3475	127	Petrol and ethanol mixture, with more than 10% ethanol
3476	138	Fuel cell cartridges contained in equipment, containing water-reactive substances
3476	138	Fuel cell cartridges, containing water-reactive substances
3476	138	Fuel cell cartridges packed with equipment, containing water-reactive substances
3477	153	Fuel cell cartridges contained in equipment, containing corrosive substances
3477	153	Fuel cell cartridges, containing corrosive substances
3477	153	Fuel cell cartridges packed with equipment, containing corrosive substances
3478	115	Fuel cell cartridges contained in equipment, containing liquefied flammable gas
3478	115	Fuel cell cartridges, containing liquefied flammable gas
3478	115	Fuel cell cartridges packed with equipment, containing liquefied flammable gas
3479	115	Fuel cell cartridges contained in equipment, containing hydrogen in metal hydride
3479	115	Fuel cell cartridges, containing hydrogen in metal hydride
3479	115	Fuel cell cartridges packed with equipment, containing hydrogen in metal hydride
3480	147	Lithium ion batteries (including lithium ion polymer batteries)
3481	147	Lithium ion batteries contained in equipment (including lithium ion polymer batteries)
3481	147	Lithium ion batteries packed with equipment (including lithium ion polymer batteries)
3482	138	Alkali metal dispersion, flammable
3482	138	Alkaline earth metal dispersion, flammable
3483	131	Motor fuel anti-knock mixture, flammable
3484	132	Hydrazine aqueous solution, flammable, with more than 37% hydrazine, by mass

ID No.	Guide No.	Name of Material
3485	140	Calcium hypochlorite, dry, corrosive, with more than 39% available chlorine (8.8% available oxygen)
3485	140	Calcium hypochlorite mixture, dry, corrosive, with more than 39% available chlorine (8.8% available oxygen)
3486	140	Calcium hypochlorite mixture, dry, corrosive, with more than 10% but not more than 39% available chlorine
3487	140	Calcium hypochlorite, hydrated, corrosive, with not less than 5.5% but not more than 16% water
3487	140	Calcium hypochlorite, hydrated mixture, corrosive, with not less than 5.5% but not more than 16% water
3495	154	Iodine
3496	171	Batteries, nickel-metal hydride
3497	133	Krill meal
3498	157	Iodine monochloride, liquid
3499	171	Capacitor, electric double layer
3500	126	Chemical under pressure, n.o.s.
3501	115	Chemical under pressure, flammable, n.o.s.
3502	123	Chemical under pressure, poisonous, n.o.s.
3502	123	Chemical under pressure, toxic, n.o.s.
3503	125	Chemical under pressure, corrosive, n.o.s.
3504	119	Chemical under pressure, flammable, poisonous, n.o.s.
3504	119	Chemical under pressure, flammable, toxic, n.o.s.
3505	118	Chemical under pressure, flammable, corrosive, n.o.s.
3506	172	Mercury contained in manufactured articles

ID No.	Guide No.	Name of Material
3508	171	Capacitor, asymmetric
3509	171	Packaging discarded, empty, uncleaned
3510	174	Adsorbed gas, flammable, n.o.s.
3511	174	Adsorbed gas, n.o.s.
3513	174	Adsorbed gas, oxidizing, n.o.s.

ID No.	Guide No.	Name of Material
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[illegible]	[illegible]	[illegible]
3527	128P	Polyester resin kit, solid base material
3528	128	Engine, fuel cell, flammable liquid powered
3528	128	Engine, internal combustion flammable liquid powered
3528	128	Machinery, fuel cell, flammable liquid powered
3528	128	Machinery, internal combustion, flammable liquid powered
3529	115	Engine, fuel cell, flammable gas powered
3529	115	Engine, internal combustion flammable gas powered
3529	115	Machinery, fuel cell, flammable gas powered
3529	115	Machinery, internal combustion, flammable gas powered
3530	171	Engine, internal combustion
3530	171	Machinery, internal combustion
3531	149P	Polymerizing substance, solid, stabilized, n.o.s.

ID No.	Guide No.	Name of Material
3532	149P	Polymerizing substance, liquid, stabilized, n.o.s.
3533	150P	Polymerizing substance, solid, temperature controlled, n.o.s.
3534	150P	Polymerizing substance, liquid, temperature controlled, n.o.s.
8000	171	Consumer commodity
9035	123	Gas identification set
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
9260	169	Aluminum, molten
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
9279	115	Hydrogen absorbed in metal hydride

GREEN HIGHLIGHTED ENTRIES IN BLUE PAGES

For entries highlighted in green follow these steps:

- **IF THERE IS NO FIRE:**
  - Go directly to Table 1 (green bordered pages)
  - Look up the ID number and name of material
  - Identify initial isolation and protective action distances
- **IF A FIRE IS INVOLVED:**
  - Also consult the assigned orange guide
  - If applicable, apply the evacuation information shown under PUBLIC SAFETY

Note 1: If the name in **Table 1** is shown with ***"(when spilled in water)"***, these materials produce large amounts of Toxic Inhalation Hazard (TIH) (PIH in the US) gases when spilled in water. Some Water Reactive materials are also TIH materials themselves (e.g., Bromine trifluoride (UN1746), Thionyl chloride (UN1836), etc.). In these instances, two entries are provided in **Table 1** for land-based and water-based spills. If the Water Reactive material **is NOT** a TIH and this material **is NOT** spilled in water, **Table 1** and **Table 2 do NOT** apply and safety distances will be found within the appropriate orange guide.

Note 2: Explosives are not individually listed by their name because in an emergency situation, the response will be based only on the division of the explosive, not on the individual explosive.

For divisions 1.1, 1.2, 1.3 and 1.5, refer to GUIDE 112.

For divisions 1.4 and 1.6, refer to GUIDE 114.

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
Acetal	127	1088
Acetaldehyde	129P	1089
Acetaldehyde ammonia	171	1841
Acetaldehyde oxime	129	2332
Acetic acid, glacial	132	2789
Acetic acid, solution, more than 10% but not more than 80% acid	153	2790
Acetic acid, solution, more than 80% acid	132	2789
Acetic anhydride	137	1715
Acetone	127	1090
[illegible]	[illegible]	[illegible]
Acetone oils	127	1091
Acetonitrile	127	1648
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Acetylene, dissolved	116	1001
Acetylene, Ethylene and Propylene in mixture, refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than 6% Propylene	115	3138
Acetylene, solvent free	116	3374
Acetylene tetrabromide	159	2504
[illegible]	[illegible]	[illegible]
Acetyl methyl carbinol	127	2621
Acid, sludge	153	1906
Acid butyl phosphate	153	1718
Acridine	153	2713
[illegible]	[illegible]	[illegible]
Acrolein dimer, stabilized	129P	2607

Name of Material	Guide No.	ID No.
Acrylamide	153P	2074
Acrylamide, solid	153P	2074
Acrylamide, solution	153P	3426
Acrylic acid, stabilized	132P	2218
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Adhesives (flammable)	128	1133
Adiponitrile	153	2205
Adsorbed gas, flammable, n.o.s.	174	3510
Adsorbed gas, n.o.s.	174	3511
Adsorbed gas, oxidizing, n.o.s.	174	3513
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Name of Material	Guide No.	ID No.
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Name of Material	Guide No.	ID No.
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Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
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Alkylsulfuric acids	156	2571
Alkyl sulphonic acids, liquid, with more than 5% free Sulphuric acid	153	2584
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Alkyl sulphonic acids, solid, with not more than 5% free Sulphuric acid	153	2585
Alkylsulphuric acids	156	2571
Allyl acetate	131	2333
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Allyl bromide	131	1099
Allyl chloride	131	1100
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[illegible]	[illegible]	[illegible]
Allyl ethyl ether	131	2335
Allyl formate	131	2336
Allyl glycidyl ether	129	2219
Allyl iodide	132	1723
Allyl isothiocyanate, stabilized	155	1545
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Aluminum, molten	169	9260
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Aluminum alkyls	135	3051
Aluminum borohydride	135	2870
Aluminum borohydride in devices	135	2870
[illegible]	[illegible]	[illegible]
Aluminum bromide, solution	154	2580
Aluminum carbide	138	1394
[illegible]	[illegible]	[illegible]
Aluminum chloride, solution	154	2581
Aluminum dross	138	3170
Aluminum ferrosilicon powder	139	1395
Aluminum hydride	138	2463
Aluminum nitrate	140	1438
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Aluminum powder, coated	170	1309
Aluminum powder, pyrophoric	135	1383
Aluminum powder, uncoated	138	1396
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2-Amino-5-diethylaminopentane	153	2946
2-Amino-4,6-dinitrophenol, wetted with not less than 20% water	113	3317
2-(2-Aminoethoxy)ethanol	154	3055
N-Aminoethylpiperazine	153	2815
Aminophenols	152	2512
Aminopyridines	153	2671
[illegible]	[illegible]	[illegible]
Ammonia, solution, with more than 10% but not more than 35% Ammonia	154	2672
Ammonia, solution, with more than 35% but not more than 50% Ammonia	125	2073
[illegible]	[illegible]	[illegible]
Ammonium arsenate	151	1546
Ammonium bifluoride, solid	154	1727
Ammonium bifluoride, solution	154	2817
Ammonium dichromate	141	1439
Ammonium dinitro-o-cresolate	141	1843
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Ammonium fluoride	154	2505
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Ammonium nitrate, with not more than 0.2% combustible substances	140	1942
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Ammonium nitrate fertilizers, with Ammonium sulfate	140	2069
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Ammonium perchlorate	143	1442
Ammonium persulfate	140	1444
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Ammonium picrate, wetted with not less than 10% water	113	1310
Ammonium polysulfide, solution	154	2818
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Ammunition, tear-producing, non-explosive	159	2017
Ammunition, toxic, non-explosive	151	2016
Amyl acetates	129	1104
Amyl acid phosphate	153	2819
Amylamine	132	1106
Amyl butyrates	130	2620
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Amyl formates	129	1109
Amyl mercaptan	130	1111
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Amyl nitrate	140	1112
Amyl nitrite	129	1113
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Aniline	153	1547
Aniline hydrochloride	153	1548
Anisidines	153	2431
Anisidines, liquid	153	2431
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Antimony compound, inorganic, solid, n.o.s.	157	1549
Antimony lactate	151	1550

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Antimony pentachloride, liquid	157	1730
Antimony pentachloride, solution	157	1731
[illegible]	[illegible]	[illegible]
Antimony potassium tartrate	151	1551
Antimony powder	170	2871
Antimony trichloride	157	1733
Antimony trichloride, liquid	157	1733
Antimony trichloride, solid	157	1733
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Arsenic acid, liquid	154	1553
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Arsenical dust	152	1562
Arsenical pesticide, liquid, flammable, poisonous	131	2760
Arsenical pesticide, liquid, flammable, toxic	131	2760
Arsenical pesticide, liquid, poisonous	151	2994
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Arsenical pesticide, liquid, toxic	151	2994
Arsenical pesticide, liquid, toxic, flammable	131	2993
Arsenical pesticide, solid, poisonous	151	2759
Arsenical pesticide, solid, toxic	151	2759
Arsenic bromide	151	1555
[illegible]	[illegible]	[illegible]

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Arsenic compound, liquid, n.o.s., inorganic	152	1556
Arsenic compound, solid, n.o.s.	152	1557
Arsenic compound, solid, n.o.s., inorganic	152	1557
Arsenic pentoxide	151	1559
[illegible]	[illegible]	[illegible]
Arsenic trioxide	151	1561
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Articles containing Polychlorinated biphenyls (PCB)	171	2315
Articles, pressurized, hydraulic (containing non-flammable gas)	126	3164
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Aryl sulfonic acids, liquid, with more than 5% free Sulfuric acid	153	2584
Aryl sulfonic acids, liquid, with not more than 5% free Sulfuric acid	153	2586
Aryl sulfonic acids, solid, with more than 5% free Sulfuric acid	153	2583
Aryl sulfonic acids, solid, with not more than 5% free Sulfuric acid	153	2585
Aryl sulphonic acids, liquid, with more than 5% free Sulphuric acid	153	2584

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Aryl sulphonic acids, solid, with more than 5% free Sulphuric acid	153	2583
Aryl sulphonic acids, solid, with not more than 5% free Sulphuric acid	153	2585
Asbestos	171	2212
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Azodicarbonamide	149	3242
Barium	138	1400
Barium alloys, pyrophoric	135	1854
Barium azide, wetted with not less than 50% water	113	1571
Barium bromate	141	2719
Barium chlorate	141	1445
Barium chlorate, solid	141	1445
Barium chlorate, solution	141	3405
Barium compound, n.o.s.	154	1564
Barium cyanide	157	1565
Barium hypochlorite, with more than 22% available Chlorine	141	2741
Barium nitrate	141	1446
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Barium permanganate	141	1448
Barium peroxide	141	1449
Batteries, containing Sodium	138	3292
Batteries, dry, containing Potassium hydroxide solid	154	3028
Batteries, nickel-metal hydride	171	3496
Batteries, wet, filled with acid	154	2794
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Batteries, wet, non-spillable	154	2800
Battery fluid, acid	157	2796
Battery fluid, alkali	154	2797
Battery-powered equipment (wet battery)	154	3171
Battery-powered equipment (with lithium ion batteries)	147	3171
Battery-powered equipment (with lithium metal batteries)	138	3171
Battery-powered equipment (with sodium batteries)	138	3171
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Battery-powered vehicle (with lithium ion batteries)	147	3171
Battery-powered vehicle (with sodium batteries)	138	3171
Benzaldehyde	129	1990
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Benzene phosphorus dichloride	137	2798
Benzene phosphorus thiodichloride	137	2799
Benzenesulfonyl chloride	156	2225

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Benzidine	153	1885
Benzonitrile	152	2224
Benzoquinone	153	2587
Benzotrichloride	156	2226
Benzotrifluoride	127	2338
Benzoyl chloride	137	1736
Benzyl bromide	156	1737
Benzyl chloride	156	1738
Benzyl chloroformate	137	1739
Benzyldimethylamine	132	2619
Benzylidene chloride	156	1886
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Beryllium compound, n.o.s.	154	1566
Beryllium nitrate	141	2464
Beryllium powder	134	1567
Bhusa, wet, damp or contaminated with oil	133	1327
Bicyclo[2.2.1]hepta-2,5-diene, stabilized	128P	2251
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Bipyridilium pesticide, liquid, flammable, poisonous	131	2782
Bipyridilium pesticide, liquid, flammable, toxic	131	2782
Bipyridilium pesticide, liquid, poisonous	151	3016
Bipyridilium pesticide, liquid, poisonous, flammable	131	3015
Bipyridilium pesticide, liquid, toxic	151	3016

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Bipyridilium pesticide, solid, poisonous	151	2781
Bipyridilium pesticide, solid, toxic	151	2781
Bisulfates, aqueous solution	154	2837
Bisulfites, aqueous solution, n.o.s.	154	2693
Bisulphates, aqueous solution	154	2837
Bisulphites, aqueous solution, n.o.s.	154	2693
Blasting agent, n.o.s.	112	—
Bleaching powder	140	2208
Blue asbestos	171	2212
Bombs, smoke, non-explosive, with corrosive liquid, without initiating device	153	2028
Borate and Chlorate mixture	140	1458
Borneol	133	1312
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[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Boron trifluoride, dihydrate	157	2851
Boron trifluoride acetic acid complex	157	1742
Boron trifluoride acetic acid complex, liquid	157	1742
Boron trifluoride acetic acid complex, solid	157	3419
Boron trifluoride diethyl etherate	132	2604
Boron trifluoride dimethyl etherate	139	2965

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Boron trifluoride propionic acid complex, liquid	157	1743
Boron trifluoride propionic acid complex, solid	157	3420
Bromates, inorganic, aqueous solution, n.o.s.	140	3213
Bromates, inorganic, n.o.s.	141	1450
[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]
Bromoacetic acid	156	1938
Bromoacetic acid, solid	156	3425
Bromoacetic acid, solution	156	1938
[illegible]	[illegible]	[illegible]
Bromoacetyl bromide	156	2513
Bromobenzene	130	2514
Bromobenzyl cyanides, liquid	159	1694
Bromobenzyl cyanides, solid	159	1694
Bromobenzyl cyanides, solid	159	3449
1-Bromobutane	130	1126
2-Bromobutane	130	2339
Bromochloromethane	160	1887
1-Bromo-3-chloropropane	159	2688
2-Bromoethyl ethyl ether	130	2340
Bromoform	159	2515
1-Bromo-3-methylbutane	130	2341

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Bromomethylpropanes	130	2342
2-Bromo-2-nitropropane-1,3-diol	133	3241
2-Bromopentane	130	2343
Bromopropanes	129	2344
3-Bromopropyne	130	2345
Bromotrifluoroethylene	116	2419
Bromotrifluoromethane	126	1009
Brown asbestos	171	2212
Brucine	152	1570
Butadienes, stabilized	116P	1010
Butadienes and hydrocarbon mixture, stabilized	116P	1010
Butane	115	1011
Butane	115	1075
Butanedione	127	2346
Butanols	129	1120
Butyl acetates	129	1123
Butyl acid phosphate	153	1718
Butyl acrylates, stabilized	129P	2348
n-Butylamine	132	1125
N-Butylaniline	153	2738
Butylbenzenes	128	2709
n-Butyl bromide	130	1126
n-Butyl chloride	130	1127
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
tert-Butylcyclohexyl chloroformate	156	2747
Butylene	115	1012
Butylene	115	1075
1,2-Butylene oxide, stabilized	127P	3022
Butyl ethers	128	1149
n-Butyl formate	129	1128

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tert-Butyl hypochlorite	135	3255
N,n-Butylimidazole	152	2690
[illegible]	[illegible]	[illegible]
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Butyl mercaptan	130	2347
n-Butyl methacrylate, stabilized	130P	2227
Butyl methyl ether	127	2350
Butyl nitrites	129	2351
Butyl propionates	130	1914
Butyltoluenes	152	2667
[illegible]	[illegible]	[illegible]
5-tert-Butyl-2,4,6-trinitro-m-xylene	149	2956
Butyl vinyl ether, stabilized	127P	2352
1,4-Butynediol	153	2716
Butyraldehyde	129	1129
Butyraldoxime	129	2840
Butyric acid	153	2820
Butyric anhydride	156	2739
Butyronitrile	131	2411
[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]
Cacodylic acid	151	1572
Cadmium compound	154	2570
Caesium	138	1407
Caesium hydroxide	157	2682
Caesium hydroxide, solution	154	2681
Caesium nitrate	140	1451
Calcium	138	1401
Calcium, pyrophoric	135	1855
Calcium alloys, pyrophoric	135	1855
Calcium arsenate	151	1573
Calcium arsenate and Calcium arsenite mixture, solid	151	1574
Calcium arsenite and Calcium arsenate mixture, solid	151	1574
Calcium carbide	138	1402
Calcium chlorate	140	1452
Calcium chlorate, aqueous solution	140	2429
Calcium chlorite	140	1453
Calcium cyanamide, with more than 0.1% Calcium carbide	138	1403
Calcium cyanide	157	1575
[illegible]	[illegible]	[illegible]
Calcium hydride	138	1404
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Calcium hypochlorite, dry	140	1748
Calcium hypochlorite, dry, corrosive, with more than 39% available chlorine (8.8% available oxygen)	140	3485
Calcium hypochlorite, hydrated, corrosive, with not less than 5.5% but not more than 16% water	140	3487
Calcium hypochlorite, hydrated, with not less than 5.5% but not more than 16% water	140	2880
Calcium hypochlorite, hydrated mixture, corrosive, with not less than 5.5% but not more than 16% water	140	3487
Calcium hypochlorite, hydrated mixture, with not less than 5.5% but not more than 16% water	140	2880

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Calcium hypochlorite mixture, dry, corrosive, with more than 10% but not more than 39% available chlorine	140	3486
Calcium hypochlorite mixture, dry, corrosive, with more than 39% available chlorine (8.8% available oxygen)	140	3485
Calcium hypochlorite mixture, dry, with more than 10% but not more than 39% available Chlorine	140	2208
Calcium hypochlorite mixture, dry, with more than 39% available Chlorine (8.8% available Oxygen)	140	1748
Calcium manganese silicon	138	2844
Calcium nitrate	140	1454
Calcium oxide	157	1910
Calcium perchlorate	140	1455
Calcium permanganate	140	1456
Calcium peroxide	140	1457
[illegible]	[illegible]	[illegible]
Calcium resinate	133	1313
Calcium resinate, fused	133	1314
Calcium silicide	138	1405
Camphor	133	2717
Camphor, synthetic	133	2717
Camphor oil	128	1130
Capacitor, asymmetric	171	3508
Capacitor, electric double layer	171	3499
Caproic acid	153	2829
Carbamate pesticide, liquid, flammable, poisonous	131	2758
Carbamate pesticide, liquid, flammable, toxic	131	2758
Carbamate pesticide, liquid, poisonous	151	2992
Carbamate pesticide, liquid, poisonous, flammable	131	2991
Carbamate pesticide, liquid, toxic	151	2992
Carbamate pesticide, liquid, toxic, flammable	131	2991
Carbamate pesticide, solid, poisonous	151	2757
Carbamate pesticide, solid, toxic	151	2757
Carbon, activated	133	1362
Carbon, animal or vegetable origin	133	1361
Carbon bisulfide	131	1131
Carbon bisulphide	131	1131
Carbon dioxide	120	1013
Carbon dioxide, compressed	120	1013
Carbon dioxide, refrigerated liquid	120	2187
Carbon dioxide, solid	120	1845
Carbon dioxide and Ethylene oxide mixture, with more than 9% but not more than 87% Ethylene oxide	115	1041
[illegible]	[illegible]	[illegible]
Carbon dioxide and Ethylene oxide mixtures, with not more than 9% Ethylene oxide	126	1952
Carbon dioxide and Nitrous oxide mixture	126	1015
Carbon dioxide and Oxygen mixture, compressed	122	1014
Carbon disulfide	131	1131
Carbon disulphide	131	1131
[illegible]	[illegible]	[illegible]

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[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Carbon tetrabromide	151	2516
Carbon tetrachloride	151	1846
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Castor beans, meal, pomace or flake	171	2969
Caustic alkali liquid, n.o.s.	154	1719
Caustic potash, solid	154	1813
Caustic potash, solution	154	1814
Caustic soda, solid	154	1823
Caustic soda, solution	154	1824
Cells, containing Sodium	138	3292
Celluloid, in blocks, rods, rolls, sheets, tubes, etc., except scrap	133	2000
Celluloid, scrap	135	2002
Cerium, slabs, ingots or rods	170	1333
Cerium, turnings or gritty powder	138	3078
Cesium	138	1407
Cesium hydroxide	157	2682
Cesium hydroxide, solution	154	2681
Cesium nitrate	140	1451
[illegible]	[illegible]	[illegible]
Charcoal	133	1361
Chemical kit	154	1760
Chemical kit	171	3316
Chemical sample, poisonous	151	3315
Chemical sample, toxic	151	3315
Chemical under pressure, corrosive, n.o.s.	125	3503
Chemical under pressure, flammable, corrosive, n.o.s.	118	3505
Chemical under pressure, flammable, n.o.s.	115	3501
Chemical under pressure, flammable, poisonous, n.o.s.	119	3504
Chemical under pressure, flammable, toxic, n.o.s.	119	3504
Chemical under pressure, n.o.s.	126	3500
Chemical under pressure, poisonous, n.o.s.	123	3502
Chemical under pressure, toxic, n.o.s.	123	3502
Chloral, anhydrous, stabilized	153	2075
Chlorate and Borate mixture	140	1458
Chlorate and Magnesium chloride mixture	140	1459
Chlorate and Magnesium chloride mixture, solid	140	1459
Chlorate and Magnesium chloride mixture, solution	140	3407
Chlorates, inorganic, aqueous solution, n.o.s.	140	3210
Chlorates, inorganic, n.o.s.	140	1461
Chloric acid, aqueous solution, with not more than 10% Chloric acid	140	2626
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Chlorite solution	154	1908
Chlorites, inorganic, n.o.s.	143	1462
[illegible]	[illegible]	[illegible]
Chloroacetic acid, molten	153	3250
Chloroacetic acid, solid	153	1751
Chloroacetic acid, solution	153	1750
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Chloroacetophenone	153	1697
Chloroacetophenone, liquid	153	3416
Chloroacetophenone, solid	153	1697
[illegible]	[illegible]	[illegible]
Chloroanilines, liquid	152	2019
Chloroanilines, solid	152	2018
Chloroanisidines	152	2233
Chlorobenzene	130	1134
Chlorobenzotrifluorides	130	2234
Chlorobenzyl chlorides	153	2235
Chlorobenzyl chlorides, liquid	153	2235
Chlorobenzyl chlorides, solid	153	3427
Chlorobutanes	130	1127
Chlorocresols	152	2669
Chlorocresols, solid	152	3437
Chlorocresols, solution	152	2669
Chlorodifluorobromomethane	126	1974
1-Chloro-1,1-difluoroethane	115	2517
Chlorodifluoromethane	126	1018
Chlorodifluoromethane and Chloropentafluoroethane mixture	126	1973
Chlorodinitrobenzenes, liquid	153	1577
Chlorodinitrobenzenes, solid	153	1577
Chlorodinitrobenzenes, solid	153	3441
1-Chloro-2,3-epoxypropane	131P	2023
[illegible]	[illegible]	[illegible]
Chloroform	151	1888
[illegible]	[illegible]	[illegible]
Chloroformates, poisonous, corrosive, n.o.s.	154	3277
[illegible]	[illegible]	[illegible]
Chloroformates, toxic, corrosive, n.o.s.	154	3277
Chloromethyl chloroformate	157	2745
Chloromethyl ethyl ether	131	2354
3-Chloro-4-methylphenyl isocyanate	156	2236
3-Chloro-4-methylphenyl isocyanate, liquid	156	2236
3-Chloro-4-methylphenyl isocyanate, solid	156	3428
Chloronitroanilines	153	2237
Chloronitrobenzenes	152	1578
Chloronitrobenzenes, liquid	152	3409
Chloronitrobenzenes, solid	152	1578
Chloronitrotoluenes, liquid	152	2433
Chloronitrotoluenes, solid	152	2433
Chloronitrotoluenes, solid	152	3457
Chloropentafluoroethane	126	1020
Chloropentafluoroethane and Chlorodifluoromethane mixture	126	1973
Chlorophenolates, liquid	154	2904
Chlorophenolates, solid	154	2905
Chlorophenols, liquid	153	2021
Chlorophenols, solid	153	2020

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[redacted]		
Chloroplatinic acid, solid	154	2507
Chloroprene, stabilized	131P	1991
1-Chloropropane	129	1278
2-Chloropropane	129	2356
3-Chloropropanol-1	153	2849
2-Chloropropene	130P	2456
2-Chloropropionic acid	153	2511
2-Chloropropionic acid, solid	153	2511
2-Chloropropionic acid, solution	153	2511
2-Chloropyridine	153	2822
[redacted]		

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[redacted]		
1-Chloro-1,2,2,2-tetrafluoroethane	126	1021
Chlorotetrafluoroethane and Ethylene oxide mixture, with not more than 8.8% Ethylene oxide	126	3297
Chlorotoluenes	129	2238
4-Chloro-o-toluidine hydrochloride	153	1579
4-Chloro-o-toluidine hydrochloride, solid	153	1579
4-Chloro-o-toluidine hydrochloride, solution	153	3410
Chlorotoluidines	153	2239
Chlorotoluidines, liquid	153	3429
Chlorotoluidines, solid	153	2239
1-Chloro-2,2,2-trifluoroethane	126	1983
Chlorotrifluoromethane	126	1022
Chlorotrifluoromethane and Trifluoromethane azeotropic mixture with approximately 60% Chlorotrifluoromethane	126	2599
Chromic acid, solution	154	1755
Chromic fluoride, solid	154	1756
Chromic fluoride, solution	154	1757
Chromium nitrate	141	2720
[redacted]		
Chromium trioxide, anhydrous	141	1463
Chromosulfuric acid	154	2240
Chromosulphuric acid	154	2240
[redacted]		

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Clinical waste, unspecified, n.o.s.	158	3291
[redacted]		
Coal gas	119	1023
Coal gas, compressed	119	1023
Coal tar distillates, flammable	128	1136
Coating solution	127	1139
Cobalt naphthenates, powder	133	2001
Cobalt resinate, precipitated	133	1318
Combustible liquid, n.o.s.	128	1993
Compounds, cleaning liquid (corrosive)	154	1760
Compounds, cleaning liquid (flammable)	128	1993
Compounds, tree or weed killing, liquid (corrosive)	154	1760
Compounds, tree or weed killing, liquid (flammable)	128	1993
Compounds, tree or weed killing, liquid (toxic)	153	2810
Compressed gas, flammable, n.o.s.	115	1954
Compressed gas, n.o.s.	126	1956
Compressed gas, oxidizing, n.o.s.	122	3156
[redacted]		

Name of Material	Guide No.	ID No.
[redacted]		

Name of Material	Guide No.	ID No.
[redacted]		

Name of Material	Guide No.	ID No.
[redacted]		

Name of Material	Guide No.	ID No.
[redacted]		
Consumer commodity	171	8000
Copper acetoarsenite	151	1585
Copper arsenite	151	1586
Copper based pesticide, liquid, flammable, poisonous	131	2776
Copper based pesticide, liquid, flammable, toxic	131	2776
Copper based pesticide, liquid, poisonous	151	3010
Copper based pesticide, liquid, poisonous, flammable	131	3009

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Copper based pesticide, liquid, toxic	151	3010
Copper based pesticide, liquid, toxic, flammable	131	3009
Copper based pesticide, solid, poisonous	151	2775
Copper based pesticide, solid, toxic	151	2775
Copper chlorate	141	2721
Copper chloride	154	2802
Copper cyanide	151	1587
Copra	135	1363
Corrosive liquid, acidic, inorganic, n.o.s.	154	3264
Corrosive liquid, acidic, organic, n.o.s.	153	3265
Corrosive liquid, basic, inorganic, n.o.s.	154	3266
Corrosive liquid, basic, organic, n.o.s.	153	3267
Corrosive liquid, flammable, n.o.s.	132	2920
Corrosive liquid, n.o.s.	154	1760
Corrosive liquid, oxidizing, n.o.s.	140	3093
Corrosive liquid, poisonous, n.o.s.	154	2922
Corrosive liquid, self-heating, n.o.s.	136	3301
Corrosive liquid, toxic, n.o.s.	154	2922
Corrosive liquid, water-reactive, n.o.s.	138	3094
Corrosive solid, acidic, inorganic, n.o.s.	154	3260
Corrosive solid, acidic, organic, n.o.s.	154	3261
Corrosive solid, basic, inorganic, n.o.s.	154	3262

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Corrosive solid, basic, organic, n.o.s.	154	3263
Corrosive solid, flammable, n.o.s.	134	2921
Corrosive solid, n.o.s.	154	1759
Corrosive solid, oxidizing, n.o.s.	140	3084
Corrosive solid, poisonous, n.o.s.	154	2923
Corrosive solid, self-heating, n.o.s.	136	3095
Corrosive solid, toxic, n.o.s.	154	2923
Corrosive solid, water-reactive, n.o.s.	138	3096
Cotton	133	1365
Cotton, wet	133	1365
Cotton waste, oily	133	1364
Coumarin derivative pesticide, liquid, flammable, poisonous	131	3024
Coumarin derivative pesticide, liquid, flammable, toxic	131	3024
Coumarin derivative pesticide, liquid, poisonous	151	3026
Coumarin derivative pesticide, liquid, poisonous, flammable	131	3025
Coumarin derivative pesticide, liquid, toxic	151	3026
Coumarin derivative pesticide, liquid, toxic, flammable	131	3025
Coumarin derivative pesticide, solid, poisonous	151	3027
Coumarin derivative pesticide, solid, toxic	151	3027
Cresols, liquid	153	2076
Cresols, solid	153	2076
Cresols, solid	153	3455
Cresylic acid	153	2022
[illegible]		
[illegible]	151	1204
Crotonic acid	153	2823
Crotonic acid, liquid	153	2823
Crotonic acid, liquid	153	3472
Crotonic acid, solid	153	2823
Crotonylene	128	1144
[illegible]	[illegible]	[illegible]
Cumene	130	1918
Cupriethylenediamine, solution	154	1761
[illegible]	[illegible]	[illegible]
Cyanide solution, n.o.s.	157	1935
Cyanides, inorganic, solid, n.o.s.	157	1588
[illegible]	[illegible]	[illegible]
Cyanogen bromide	157	1889
[illegible]	[illegible]	[illegible]
Cyanuric chloride	157	2670
Cyclobutane	115	2601
Cyclobutyl chloroformate	155	2744
1,5,9-Cyclododecatriene	153	2518
Cycloheptane	128	2241
Cycloheptatriene	131	2603
Cycloheptene	128	2242
Cyclohexane	128	1145
Cyclohexanethiol	129	3054
Cyclohexanone	127	1915
Cyclohexene	130	2256
[illegible]	[illegible]	[illegible]
Cyclohexyl acetate	130	2243
Cyclohexylamine	132	2357

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
Cyclohexyl mercaptan	129	3054
[illegible]	[illegible]	[illegible]
Cyclooctadiene phosphines	135	2940
Cyclooctadienes	130P	2520
Cyclooctatetraene	128P	2358
Cyclopentane	128	1146
Cyclopentanol	129	2244
Cyclopentanone	128	2245
Cyclopentene	128	2246
Cyclopropane	115	1027
Cymenes	130	2046
[illegible]	[illegible]	[illegible]
Dangerous goods in apparatus	171	3363
Dangerous goods in machinery	171	3363
[illegible]	[illegible]	[illegible]
Decaborane	134	1868
Decahydronaphthalene	130	1147
n-Decane	128	2247
Denatured alcohol	127	1987
Desensitized explosive, liquid, n.o.s.	128	3379
Desensitized explosive, solid, n.o.s.	133	3380
Deuterium	115	1957
Deuterium, compressed	115	1957
Devices, small, hydrocarbon gas powered, with release device	115	3150
Diacetone alcohol	129	1148
Diacetyl	127	2346
Diallylamine	132	2359
Diallyl ether	131P	2360
4,4'-Diaminodiphenylmethane	153	2651
Di-n-amylamine	131	2841
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
1,2-Dibromobutan-3-one	154	2648
Dibromochloropropanes	159	2872
Dibromodifluoromethane	171	1941
Dibromomethane	160	2664
Di-n-butylamine	132	2248
Dibutylaminoethanol	153	2873
Dibutyl ethers	128	1149
Dichloroacetic acid	153	1764
1,3-Dichloroacetone	153	2649
[illegible]	[illegible]	[illegible]
Dichloroanilines, liquid	153	1590
Dichloroanilines, solid	153	1590
Dichloroanilines, solid	153	3442
o-Dichlorobenzene	152	1591
2,2'-Dichlorodiethyl ether	152	1916
Dichlorodifluoromethane	126	1028
Dichlorodifluoromethane and Difluoroethane azeotropic mixture with approximately 74% Dichlorodifluoromethane	126	2602
Dichlorodifluoromethane and Ethylene oxide mixture, with not more than 12.5% Ethylene oxide	126	3070
Dichlorodimethyl ether, symmetrical	131	2249
1,1-Dichloroethane	130	2362
1,2-Dichloroethylene	130P	1150
Dichloroethyl ether	152	1916

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Dichlorofluoromethane	126	1029
Dichloroisocyanuric acid, dry	140	2465
Dichloroisocyanuric acid salts	140	2465
Dichloroisopropyl ether	153	2490
Dichloromethane	160	1593
1,1-Dichloro-1-nitroethane	153	2650
Dichloropentanes	130	1152
Dichlorophenyl isocyanates	156	2250
[illegible]	[illegible]	[illegible]
1,2-Dichloropropane	130	1279
1,3-Dichloropropanol-2	153	2750
Dichloropropenes	129	2047
[illegible]	[illegible]	[illegible]
1,2-Dichloro-1,1,2,2-tetrafluoroethane	126	1958
[illegible]	[illegible]	[illegible]
Dicyclohexylamine	153	2565
Dicyclohexylammonium nitrite	133	2687
Dicyclopentadiene	130	2048
1,2-Di-(dimethylamino)ethane	129	2372
Didymium nitrate	140	1465
Diesel fuel	128	1202
Diesel fuel	128	1993
Diethoxymethane	127	2373
3,3-Diethoxypropene	127	2374
Diethylamine	132	1154
2-Diethylaminoethanol	132	2686
3-Diethylaminopropylamine	132	2684
Diethylaminopropylamine	132	2684
N,N-Diethylaniline	153	2432
Diethylbenzene	130	2049
Diethyl carbonate	128	2366
[illegible]	[illegible]	[illegible]
Diethylenetriamine	154	2079
Diethyl ether	127	1155
N,N-Diethylethylenediamine	132	2685
Diethyl ketone	127	1156
Diethyl sulfate	152	1594
Diethyl sulfide	129	2375
Diethyl sulphate	152	1594
Diethyl sulphide	129	2375
Diethylthiophosphoryl chloride	155	2751
Diethylzinc	135	1366
Difluorochloroethanes	115	2517
1,1-Difluoroethane	115	1030
Difluoroethane and Dichlorodifluoromethane azeotropic mixture with approximately 74% Dichlorodifluoromethane	126	2602
1,1-Difluoroethylene	116P	1959
Difluoromethane	115	3252
Difluorophosphoric acid, anhydrous	154	1768
2,3-Dihydropyran	127	2376
Diisobutylamine	132	2361
Diisobutylene, isomeric compounds	128	2050
Diisobutyl ketone	128	1157
Diisooctyl acid phosphate	153	1902
Diisopropylamine	132	1158
Diisopropyl ether	127	1159
[illegible]	[illegible]	[illegible]
1,1-Dimethoxyethane	127	2377
1,2-Dimethoxyethane	127	2252
Dimethylamine, anhydrous	118	1032

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Dimethylamine, aqueous solution	132	1160
Dimethylamine, solution	132	1160
2-Dimethylaminoacetonitrile	131	2378
2-Dimethylaminoethanol	132	2051
2-Dimethylaminoethyl acrylate	152	3302
2-Dimethylaminoethyl methacrylate	153P	2522
N,N-Dimethylaniline	153	2253
2,3-Dimethylbutane	128	2457
1,3-Dimethylbutylamine	132	2379
Dimethylcarbamoyl chloride	156	2262
Dimethyl carbonate	129	1161
Dimethylcyclohexanes	128	2263
N,N-Dimethylcyclohexylamine	132	2264
Dimethylcyclohexylamine	132	2264
[illegible]	[illegible]	[illegible]
Dimethyldiethoxysilane	127	2380
Dimethyldioxanes	127	2707
Dimethyl disulfide	130	2381
Dimethyl disulphide	130	2381
Dimethyl ether	115	1033
N,N-Dimethylformamide	129	2265
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
2,2-Dimethylpropane	115	2044
Dimethyl-N-propylamine	132	2266
[illegible]	[illegible]	[illegible]
Dimethyl sulfide	130	1164
[illegible]	[illegible]	[illegible]
Dimethyl sulphide	130	1164
Dimethyl thiophosphoryl chloride	156	2267
Dimethylzinc	135	1370
Dinitroanilines	153	1596
Dinitrobenzenes, liquid	152	1597
Dinitrobenzenes, solid	152	1597
Dinitrobenzenes, solid	152	3443
Dinitrochlorobenzenes	153	1577
Dinitro-o-cresol	153	1598
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Dinitrophenol, solution	153	1599
Dinitrophenol, wetted with not less than 15% water	113	1320
Dinitrophenolates, wetted with not less than 15% water	113	1321
Dinitroresorcinol, wetted with not less than 15% water	113	1322
Dinitrotoluenes	152	2038
Dinitrotoluenes, liquid	152	2038
Dinitrotoluenes, molten	152	1600
Dinitrotoluenes, solid	152	2038
Dinitrotoluenes, solid	152	3454
Dioxane	127	1165
Dioxolane	127	1166
Dipentene	128	2052
Diphenylamine chloroarsine	154	1698
Diphenylchloroarsine, liquid	151	1699
Diphenylchloroarsine, solid	151	1699
Diphenylchloroarsine, solid	151	3450
[illegible]	[illegible]	[illegible]
Diphenylmethyl bromide	153	1770

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Dipicryl sulfide, wetted with not less than 10% water	113	2852
Dipicryl sulphide, wetted with not less than 10% water	113	2852
Dipropylamine	132	2383
Di-n-propyl ether	127	2384
Dipropyl ketone	128	2710
Disinfectant, liquid, corrosive, n.o.s.	153	1903
Disinfectant, liquid, poisonous, n.o.s.	151	3142
Disinfectant, liquid, toxic, n.o.s.	151	3142
Disinfectant, solid, poisonous, n.o.s.	151	1601
Disinfectant, solid, toxic, n.o.s.	151	1601
Disodium trioxosilicate	154	3253
Dispersant gas, n.o.s.	126	1078
Dispersant gases, n.o.s. (flammable)	115	1954
Divinyl ether, stabilized	128P	1167
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Dry ice	120	1845
Dye, liquid, corrosive, n.o.s.	154	2801
Dye, liquid, poisonous, n.o.s.	151	1602
Dye, liquid, toxic, n.o.s.	151	1602
Dye, solid, corrosive, n.o.s.	154	3147
Dye, solid, poisonous, n.o.s.	151	3143
Dye, solid, toxic, n.o.s.	151	3143
Dye intermediate, liquid, corrosive, n.o.s.	154	2801
Dye intermediate, liquid, poisonous, n.o.s.	151	1602
Dye intermediate, liquid, toxic, n.o.s.	151	1602
Dye intermediate, solid, corrosive, n.o.s.	154	3147
Dye intermediate, solid, poisonous, n.o.s.	151	3143
Dye intermediate, solid, toxic, n.o.s.	151	3143
[illegible]	[illegible]	[illegible]
Elevated temperature liquid, flammable, n.o.s., with flash point above 37.8°C (100°F), at or above its flash point	128	3256
Elevated temperature liquid, flammable, n.o.s., with flash point above 60°C (140°F), at or above its flash point	128	3256
Elevated temperature liquid, n.o.s., at or above 100°C (212°F), and below its flash point	128	3257
Elevated temperature solid, n.o.s., at or above 240°C (464°F)	171	3258
Engine, fuel cell, flammable gas powered	115	3166
Engine, fuel cell, flammable gas powered	115	3529
Engine, fuel cell, flammable liquid powered	128	3166
Engine, fuel cell, flammable liquid powered	128	3528
Engine, internal combustion	128	3166
Engine, internal combustion	171	3530
Engine, internal combustion flammable gas powered	115	3529
Engine, internal combustion flammable liquid powered	128	3528
Engines, internal combustion, flammable gas powered	115	3166

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Engines, internal combustion, flammable liquid powered	128	3166
Environmentally hazardous substance, liquid, n.o.s.	171	3082
Environmentally hazardous substance, solid, n.o.s.	171	3077
Epibromohydrin	131	2558
Epichlorohydrin	131P	2023
1,2-Epoxy-3-ethoxypropane	127	2752
Esters, n.o.s.	127	3272
Ethane	115	1035
Ethane, compressed	115	1035
Ethane, refrigerated liquid	115	1961
Ethane-Propane mixture, refrigerated liquid	115	1961
Ethanol	127	1170
Ethanol and gasoline mixture, with more than 10% ethanol	127	3475
Ethanol and motor spirit mixture, with more than 10% ethanol	127	3475
Ethanol and petrol mixture, with more than 10% ethanol	127	3475
Ethanol, solution	127	1170
Ethanolamine	153	2491
Ethanolamine, solution	153	2491
Ethers, n.o.s.	127	3271
Ethyl acetate	129	1173
Ethylacetylene, stabilized	116P	2452
Ethyl acrylate, stabilized	129P	1917
Ethyl alcohol	127	1170
Ethyl alcohol, solution	127	1170
Ethylamine	118	1036
Ethylamine, aqueous solution, with not less than 50% but not more than 70% Ethylamine	132	2270
Ethyl amyl ketone	128	2271
2-Ethylaniline	153	2273
N-Ethylaniline	153	2272
Ethylbenzene	130	1175
N-Ethyl-N-benzylaniline	153	2274
N-Ethylbenzyltoluidines, liquid	153	2753
N-Ethylbenzyltoluidines, solid	153	2753
N-Ethylbenzyltoluidines, solid	153	3460
Ethyl borate	129	1176
Ethyl bromide	131	1891
Ethyl bromoacetate	155	1603
2-Ethylbutanol	129	2275
2-Ethylbutyl acetate	130	1177
Ethylbutyl acetate	130	1177
Ethyl butyl ether	127	1179
2-Ethylbutyraldehyde	130	1178
Ethyl butyrate	130	1180
Ethyl chloride	115	1037
Ethyl chloroacetate	155	1181
[illegible]	[illegible]	[illegible]
Ethyl 2-chloropropionate	129	2935
[illegible]	[illegible]	[illegible]
Ethyl crotonate	130	1862
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Ethylene	116P	1962

Name of Material	Guide No.	ID No.
Ethylene, Acetylene and Propylene in mixture, refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than 6% Propylene	115	3138
Ethylene, compressed	116P	1962
Ethylene, refrigerated liquid (cryogenic liquid)	115	1038
[illegible]	[illegible]	[illegible]
Ethylenediamine	132	1604
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Ethylene dichloride	131	1184
Ethylene glycol diethyl ether	127	1153
Ethylene glycol monoethyl ether	127	1171
Ethylene glycol monoethyl ether acetate	129	1172
Ethylene glycol monomethyl ether	127	1188
Ethylene glycol monomethyl ether acetate	129	1189
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Ethylene oxide and Carbon dioxide mixture, with more than 9% but not more than 87% Ethylene oxide	115	1041
[illegible]	[illegible]	[illegible]
Ethylene oxide and Carbon dioxide mixtures, with not more than 9% Ethylene oxide	126	1952
Ethylene oxide and Chlorotetrafluoroethane mixture, with not more than 8.8% Ethylene oxide	126	3297
Ethylene oxide and Dichlorodifluoromethane mixture, with not more than 12.5% Ethylene oxide	126	3070
Ethylene oxide and Pentafluoroethane mixture, with not more than 7.9% Ethylene oxide	126	3298
Ethylene oxide and Propylene oxide mixture, with not more than 30% Ethylene oxide	129P	2983
Ethylene oxide and Tetrafluoroethane mixture, with not more than 5.6% Ethylene oxide	126	3299
[illegible]	[illegible]	[illegible]
Ethyl ether	127	1155
Ethyl fluoride	115	2453
Ethyl formate	129	1190
Ethylhexaldehydes	129	1191
2-Ethylhexylamine	132	2276
2-Ethylhexyl chloroformate	156	2748
Ethyl isobutyrate	129	2385
[illegible]	[illegible]	[illegible]
Ethyl lactate	129	1192
Ethyl mercaptan	129	2363
Ethyl methacrylate	130P	2277
Ethyl methacrylate, stabilized	130P	2277
Ethyl methyl ether	115	1039
Ethyl methyl ketone	127	1193
Ethyl nitrite, solution	131	1194
Ethyl orthoformate	129	2524
Ethyl oxalate	156	2525
[illegible]	[illegible]	[illegible]

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
1-Ethylpiperidine	132	2386
Ethyl propionate	129	1195
Ethyl propyl ether	127	2615
Ethyl silicate	129	1292
N-Ethyltoluidines	153	2754
[illegible]	[illegible]	[illegible]
Explosives, division 1.1, 1.2, 1.3 or 1.5	112	——
Explosives, division 1.4 or 1.6	114	——
Extracts, aromatic, liquid	127	1169
Extracts, flavoring, liquid	127	1197
Extracts, flavouring, liquid	127	1197
Fabrics, animal or vegetable or synthetic, n.o.s. with oil	133	1373
Fabrics impregnated with weakly nitrated Nitrocellulose, n.o.s.	133	1353
Ferric arsenate	151	1606
Ferric arsenite	151	1607
Ferric chloride, anhydrous	157	1773
Ferric chloride, solution	154	2582
Ferric nitrate	140	1466
Ferrocerium	170	1323
Ferrosilicon	139	1408
Ferrous arsenate	151	1608
Ferrous chloride, solid	154	1759
Ferrous chloride, solution	154	1760
Ferrous metal borings, shavings, turnings or cuttings	170	2793
Fertilizer, ammoniating solution, with free Ammonia	125	1043
Fibers, animal or vegetable, burnt, wet or damp	133	1372
Fibers, animal or vegetable or synthetic, n.o.s. with oil	133	1373
Fibers, vegetable, dry	133	3360
Fibers impregnated with weakly nitrated Nitrocellulose, n.o.s.	133	1353
Fibres, animal or vegetable, burnt, wet or damp	133	1372
Fibres, animal or vegetable or synthetic, n.o.s. with oil	133	1373
Fibres, vegetable, dry	133	3360
Fibres impregnated with weakly nitrated Nitrocellulose, n.o.s.	133	1353
Films, nitrocellulose base	133	1324
Fire extinguisher charges, corrosive liquid	154	1774
Fire extinguishers with compressed gas	126	1044
Fire extinguishers with liquefied gas	126	1044
Firelighters, solid, with flammable liquid	133	2623
First aid kit	171	3316
Fish meal, stabilized	171	2216
Fish meal, unstabilized	133	1374
Fish scrap, stabilized	171	2216
Fish scrap, unstabilized	133	1374
Flammable liquid, corrosive, n.o.s	132	2924
Flammable liquid, n.o.s.	128	1993
Flammable liquid, poisonous, corrosive, n.o.s.	131	3286

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Flammable liquid, poisonous, n.o.s.	131	1992
Flammable liquid, toxic, corrosive, n.o.s.	131	3286
Flammable liquid, toxic, n.o.s.	131	1992
Flammable solid, corrosive, inorganic, n.o.s.	134	3180
Flammable solid, corrosive, organic, n.o.s.	134	2925
Flammable solid, inorganic, n.o.s.	133	3178
Flammable solid, organic, molten, n.o.s.	133	3176
Flammable solid, organic, n.o.s.	133	1325
Flammable solid, oxidizing, n.o.s.	140	3097
Flammable solid, poisonous, inorganic, n.o.s.	134	3179
Flammable solid, poisonous, organic, n.o.s.	134	2926
Flammable solid, toxic, inorganic, n.o.s.	134	3179
Flammable solid, toxic, organic, n.o.s.	134	2926
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Fluoroacetic acid	154	2642
Fluoroanilines	153	2941
Fluorobenzene	130	2387
Fluoroboric acid	154	1775
Fluorophosphoric acid, anhydrous	154	1776
Fluorosilicates, n.o.s.	151	2856
Fluorosilicic acid	154	1778
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

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Fluorotoluenes	130	2388
Formaldehyde, solution (corrosive)	132	2209
Formaldehyde, solution, flammable	132	1198
Formalin (corrosive)	132	2209
Formalin (flammable)	132	1198
Formic acid	153	1779
Formic acid, with more than 85% acid	153	1779
Formic acid, with not less than 5% but less than 10% acid	153	3412
Formic acid, with not less than 10% but not more than 85% acid	153	3412
Fuel, aviation, turbine engine	128	1863
Fuel cell cartridges contained in equipment, containing corrosive substances	153	3477
Fuel cell cartridges contained in equipment, containing flammable liquids	128	3473
Fuel cell cartridges contained in equipment, containing hydrogen in metal hydride	115	3479
Fuel cell cartridges contained in equipment, containing liquefied flammable gas	115	3478
Fuel cell cartridges contained in equipment, containing water-reactive substances	138	3476
Fuel cell cartridges, containing corrosive substances	153	3477
Fuel cell cartridges, containing flammable liquids	128	3473
Fuel cell cartridges, containing hydrogen in metal hydride	115	3479

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Fuel cell cartridges, containing liquefied flammable gas	115	3478
Fuel cell cartridges, containing water-reactive substances	138	3476
Fuel cell cartridges packed with equipment, containing corrosive substances	153	3477
Fuel cell cartridges packed with equipment, containing flammable liquids	128	3473
Fuel cell cartridges packed with equipment, containing hydrogen in metal hydride	115	3479
Fuel cell cartridges packed with equipment, containing liquefied flammable gas	115	3478
Fuel cell cartridges packed with equipment, containing water-reactive substances	138	3476
Fuel oil	128	1202
Fuel oil	128	1993
Fumaryl chloride	156	1780
Fumigated cargo transport unit	171	3359
Fumigated unit	171	3359
Furaldehydes	132P	1199
Furan	128	2389
Furfural	132P	1199
Furfuraldehydes	132P	1199
Furfuryl alcohol	153	2874
Furfurylamine	132	2526
Fusee (rail or highway)	133	1325
Fusel oil	127	1201
[illegible]	[illegible]	[illegible]
Gallium	172	2803
Gas, refrigerated liquid, flammable, n.o.s.	115	3312

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Gas, refrigerated liquid, n.o.s.	120	3158
Gas, refrigerated liquid, oxidizing, n.o.s.	122	3311
Gas cartridges	115	2037
Gas identification set	123	9035
Gasohol	128	1203
Gas oil	128	1202
Gasoline	128	1203
Gasoline and ethanol mixture, with more than 10% ethanol	127	3475
Gas sample, non-pressurized, flammable, n.o.s., not refrigerated liquid	115	3167
Gas sample, non-pressurized, poisonous, flammable, n.o.s., not refrigerated liquid	119	3168
Gas sample, non-pressurized, poisonous, n.o.s., not refrigerated liquid	123	3169
Gas sample, non-pressurized, toxic, flammable, n.o.s., not refrigerated liquid	119	3168
Gas sample, non-pressurized, toxic, n.o.s., not refrigerated liquid	123	3169
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Genetically modified micro-organisms	171	3245
Genetically modified organisms	171	3245
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Glycerol alpha-monochlorohydrin	153	2689
Glycidaldehyde	131P	2622

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Guanidine nitrate	143	1467
[illegible]	[illegible]	[illegible]
Hafnium powder, dry	135	2545
Hafnium powder, wetted with not less than 25% water	170	1326
Halogenated monomethyldiphenylmethanes, liquid	171	3151
Halogenated monomethyldiphenylmethanes, solid	171	3152
Hay, wet, damp or contaminated with oil	133	1327
Hazardous waste, liquid, n.o.s.	171	3082
Hazardous waste, solid, n.o.s.	171	3077
[illegible]	[illegible]	[illegible]
Heating oil, light	128	1202
Helium	121	1046
Helium, compressed	121	1046
Helium, refrigerated liquid (cryogenic liquid)	120	1963
Heptafluoropropane	126	3296
n-Heptaldehyde	129	3056
Heptanes	128	1206
n-Heptene	128	2278
Hexachloroacetone	153	2661
Hexachlorobenzene	152	2729
Hexachlorobutadiene	151	2279
[illegible]	[illegible]	[illegible]
Hexachlorophene	151	2875
[illegible]	[illegible]	[illegible]
Hexadiene	130	2458
Hexaethyl tetraphosphate	151	1611
[illegible]	[illegible]	[illegible]

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[illegible]	[illegible]	[illegible]
Hexafluoroacetone hydrate	151	2552
Hexafluoroacetone hydrate, liquid	151	2552
Hexafluoroacetone hydrate, solid	151	3436
Hexafluoroethane	126	2193
Hexafluoroethane, compressed	126	2193
Hexafluorophosphoric acid	154	1782
Hexafluoropropylene	126	1858
Hexafluoropropylene, compressed	126	1858
Hexaldehyde	130	1207
Hexamethylenediamine, solid	153	2280
Hexamethylenediamine, solution	153	1783
Hexamethylene diisocyanate	156	2281
Hexamethyleneimine	132	2493
Hexamethylenetetramine	133	1328
Hexanes	128	1208
Hexanoic acid	153	2829
Hexanols	129	2282
1-Hexene	128	2370
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Hydrazine, anhydrous	132	2029
Hydrazine aqueous solution, flammable, with more than 37% hydrazine, by mass	132	3484
Hydrazine, aqueous solution, with more than 37% Hydrazine	153	2030

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Hydrazine, aqueous solution, with not less than 37% but not more than 64% Hydrazine	153	2030
Hydrazine, aqueous solution, with not more than 37% Hydrazine	152	3293
Hydrazine hydrate	153	2030
Hydriodic acid	154	1787
Hydrobromic acid	154	1788
Hydrocarbon and butadienes mixture, stabilized	116P	1010
Hydrocarbon gas mixture, compressed, n.o.s.	115	1964
Hydrocarbon gas mixture, liquefied, n.o.s.	115	1965
Hydrocarbon gas refills for small devices, with release device	115	3150
Hydrocarbons, liquid, n.o.s.	128	3295
Hydrochloric acid	157	1789
Hydrocyanic acid, aqueous solution, with less than 5% Hydrogen cyanide	154	1613
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Hydrofluoric acid	157	1790
Hydrofluoric acid and Sulfuric acid mixture	157	1786
Hydrofluoric acid and Sulphuric acid mixture	157	1786
Hydrofluorosilicic acid	154	1778
Hydrogen	115	1049
Hydrogen absorbed in metal hydride	115	9279
Hydrogen, compressed	115	1049

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Hydrogen in a metal hydride storage system	115	3468
Hydrogen in a metal hydride storage system contained in equipment	115	3468
Hydrogen in a metal hydride storage system packed with equipment	115	3468
Hydrogen, refrigerated liquid (cryogenic liquid)	115	1966
[illegible]	[illegible]	[illegible]
Hydrogen and Methane mixture, compressed	115	2034
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Hydrogendifluorides, n.o.s.	154	1740
Hydrogendifluorides, solid, n.o.s.	154	1740
Hydrogendifluorides, solution, n.o.s.	154	3471
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

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Hydrogen peroxide, aqueous solution, stabilized, with more than 60% Hydrogen peroxide	143	2015
Hydrogen peroxide, aqueous solution, with not less than 8% but less than 20% Hydrogen peroxide	140	2984
Hydrogen peroxide, aqueous solution, with not less than 20% but not more than 60% Hydrogen peroxide (stabilized as necessary)	140	2014
Hydrogen peroxide, stabilized	143	2015
Hydrogen peroxide and Peroxyacetic acid mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized	140	3149
[redacted]		
Hydroquinone	153	2662
Hydroquinone, solution	153	3435
1-Hydroxybenzotriazole, anhydrous, wetted with not less than 20% water	113	3474
1-Hydroxybenzotriazole, monohydrate	113	3474
Hydroxylamine sulfate	154	2865
Hydroxylamine sulphate	154	2865
Hypochlorite solution	154	1791
Hypochlorites, inorganic, n.o.s.	140	3212
3,3'-Iminodipropylamine	153	2269
Infectious substance, affecting animals only	158	2900
Infectious substance, affecting humans	158	2814

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Ink, printer's, flammable	129	1210
Insecticide gas, flammable, n.o.s.	115	3354
Insecticide gas, n.o.s.	126	1968
[redacted]		
Iodine	154	3495
Iodine monochloride, liquid	157	3498
Iodine monochloride, solid	157	1792
[redacted]		
2-Iodobutane	129	2390

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Iodomethylpropanes	129	2391
Iodopropanes	129	2392
IPDI	156	2290
Iron oxide, spent	135	1376
[redacted]		
Iron sponge, spent	135	1376
Isobutane	115	1075
Isobutane	115	1969
Isobutanol	129	1212
Isobutyl acetate	129	1213
Isobutyl acrylate, stabilized	129P	2527
Isobutyl alcohol	129	1212
Isobutyl aldehyde	130	2045
Isobutylamine	132	1214
[redacted]		
Isobutylene	115	1055
Isobutylene	115	1075
Isobutyl formate	129	2393
Isobutyl isobutyrate	130	2528
[redacted]		
Isobutyl methacrylate, stabilized	130P	2283
Isobutyl propionate	129	2394
Isobutyraldehyde	130	2045
Isobutyric acid	132	2529
Isobutyronitrile	131	2284
[redacted]		

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Isocyanate solution, poisonous, flammable, n.o.s.	155	3080
Isocyanate solution, poisonous, n.o.s.	155	2206
Isocyanate solution, toxic, flammable, n.o.s.	155	3080
Isocyanate solution, toxic, n.o.s.	155	2206
[redacted]		
Isocyanates, poisonous, flammable, n.o.s.	155	3080
Isocyanates, poisonous, n.o.s.	155	2206
Isocyanates, toxic, flammable, n.o.s.	155	3080
Isocyanates, toxic, n.o.s.	155	2206
[redacted]		
Isoheptenes	128	2287
Isohexenes	128	2288
Isooctane	128	1262
Isooctenes	128	1216
Isopentane	128	1265
Isopentenes	128	2371
Isophoronediamine	153	2289
Isophorone diisocyanate	156	2290
Isoprene, stabilized	130P	1218
Isopropanol	129	1219
Isopropenyl acetate	129P	2403
Isopropenylbenzene	128	2303
Isopropyl acetate	129	1220
Isopropyl acid phosphate	153	1793
Isopropyl alcohol	129	1219
Isopropylamine	132	1221

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Isopropylbenzene	130	1918
Isopropyl butyrate	129	2405
Isopropyl chloroacetate	155	2947
[redacted]		
Isopropyl 2-chloropropionate	129	2934
Isopropyl isobutyrate	127	2406
[redacted]		
Isopropyl nitrate	130	1222
Isopropyl propionate	129	2409
Isosorbide dinitrate mixture	133	2907
Isosorbide-5-mononitrate	133	3251
Kerosene	128	1223
Ketones, liquid, n.o.s.	127	1224
Krill meal	133	3497
Krypton	121	1056
Krypton, compressed	121	1056
Krypton, refrigerated liquid (cryogenic liquid)	120	1970
[redacted]		
Lead acetate	151	1616
Lead arsenates	151	1617
Lead arsenites	151	1618
Lead compound, soluble, n.o.s.	151	2291
Lead cyanide	151	1620
Lead dioxide	141	1872
Lead nitrate	141	1469
Lead perchlorate	141	1470
Lead perchlorate, solid	141	1470
Lead perchlorate, solution	141	3408
Lead phosphite, dibasic	133	2989
Lead sulfate, with more than 3% free acid	154	1794

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Lead sulphate, with more than 3% free acid	154	1794
[redacted]		
Life-saving appliances, not self-inflating	171	3072
Life-saving appliances, self-inflating	171	2990
Lighter refills (cigarettes) (flammable gas)	115	1057
Lighters (cigarettes) (flammable gas)	115	1057
Lighters, non-pressurized, containing flammable liquid	128	1057
Liquefied gas, flammable, n.o.s.	115	3161
Liquefied gas, n.o.s.	126	3163
Liquefied gas, oxidizing, n.o.s.	122	3157
[redacted]		

Name of Material	Guide No.	ID No.
[redacted]		

Name of Material	Guide No.	ID No.
[redacted]		

Name of Material	Guide No.	ID No.
Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone [illegible])	119	3309
Liquefied gas, toxic, flammable, corrosive, n.o.s. (Inhalation Hazard Zone [illegible])	119	3309
Liquefied gas, toxic, flammable, n.o.s.	119	3160
Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone A)	119	3160
Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone B)	119	3160
Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone C)	119	3160
Liquefied gas, toxic, flammable, n.o.s. (Inhalation Hazard Zone D)	119	3160
Liquefied gas, toxic, n.o.s.	123	3162
Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone A)	123	3162
Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone B)	123	3162
Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone C)	123	3162
Liquefied gas, toxic, n.o.s. (Inhalation Hazard Zone D)	123	3162
Liquefied gas, toxic, oxidizing, corrosive, n.o.s.	124	3310
Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone [illegible])	124	3310
Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone [illegible])	124	3310
Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone [illegible])	124	3310
Liquefied gas, toxic, oxidizing, corrosive, n.o.s. (Inhalation Hazard Zone [illegible])	124	3310
Liquefied gas, toxic, oxidizing, n.o.s.	124	3307
Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone [illegible])	124	3307
Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone [illegible])	124	3307
Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone [illegible])	124	3307
Liquefied gas, toxic, oxidizing, n.o.s. (Inhalation Hazard Zone [illegible])	124	3307
Liquefied gases, non-flammable, charged with Nitrogen, Carbon dioxide or Air	120	1058
Liquefied natural gas (cryogenic liquid)	115	1972
Liquefied petroleum gas	115	1075
Lithium	138	1415
Lithium alkyls	135	2445
Lithium alkyls, liquid	135	2445
Lithium alkyls, solid	135	3433
Lithium aluminum hydride	138	1410
Lithium aluminum hydride, ethereal	138	1411
Lithium batteries	138	3090
Lithium batteries contained in equipment	138	3091
Lithium batteries packed with equipment	138	3091
Lithium borohydride	138	1413
Lithium ferrosilicon	139	2830
Lithium hydride	138	1414

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Lithium hydride, fused solid	138	2805
Lithium hydroxide	154	2680
Lithium hydroxide, monohydrate	154	2680
Lithium hydroxide, solution	154	2679
Lithium hypochlorite, dry	140	1471
Lithium hypochlorite mixture	140	1471
Lithium hypochlorite mixtures, dry	140	1471
Lithium ion batteries (including lithium ion polymer batteries)	147	3480
Lithium ion batteries contained in equipment (including lithium ion polymer batteries)	147	3481
Lithium ion batteries packed with equipment (including lithium ion polymer batteries)	147	3481
Lithium metal batteries (including lithium alloy batteries)	138	3090
Lithium metal batteries contained in equipment (including lithium alloy batteries)	138	3091
Lithium metal batteries packed with equipment (including lithium alloy batteries)	138	3091
Lithium nitrate	140	2722
Lithium nitride	138	2806
Lithium peroxide	143	1472
Lithium silicon	138	1417
LNG (cryogenic liquid)	115	1972
London purple	151	1621
LPG	115	1075
Machinery, fuel cell, flammable gas powered	115	3529
Machinery, fuel cell, flammable liquid powered	128	3528
Machinery, internal combustion	171	3530
Machinery, internal combustion, flammable gas powered	115	3529
Machinery, internal combustion, flammable liquid powered	128	3528
Magnesium	138	1869
Magnesium, in pellets, turnings or ribbons	138	1869
Magnesium alkyls	135	3053
Magnesium alloys, with more than 50% Magnesium, in pellets, turnings or ribbons	138	1869
Magnesium alloys powder	138	1418
Magnesium aluminum phosphide	139	1419
Magnesium arsenate	151	1622
Magnesium bromate	140	1473
Magnesium chlorate	140	2723
Magnesium chloride and Chlorate mixture	140	1459
Magnesium chloride and Chlorate mixture, solid	140	1459
Magnesium chloride and Chlorate mixture, solution	140	3407
Magnesium diamide	135	2004
Magnesium diphenyl	135	2005
Magnesium fluorosilicate	151	2853
Magnesium granules, coated	138	2950
Magnesium hydride	138	2010
Magnesium nitrate	140	1474
Magnesium perchlorate	140	1475
Magnesium peroxide	140	1476

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Magnesium phosphide	139	2011
Magnesium powder	138	1418
Magnesium silicide	138	2624
Magnesium silicofluoride	151	2853
Magnetized material	171	2807
Maleic anhydride	156	2215
Maleic anhydride, molten	156	2215
Malononitrile	153	2647
Maneb	135	2210
Maneb, stabilized	135	2968
Maneb preparation, stabilized	135	2968
Maneb preparation, with not less than 60% Maneb	135	2210
Manganese nitrate	140	2724
Manganese resinate	133	1330
Matches, fusee	133	2254
Matches, safety	133	1944
Matches, "strike anywhere"	133	1331
Matches, wax "vesta"	133	1945
MD	152	1556
Medical waste, n.o.s.	158	3291
Medicine, liquid, flammable, poisonous, n.o.s.	131	3248
Medicine, liquid, flammable, toxic, n.o.s.	131	3248
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Mercaptan mixture, liquid, flammable, poisonous, n.o.s.	131	1228
Mercaptan mixture, liquid, flammable, toxic, n.o.s.	131	1228
Mercaptan mixture, liquid, poisonous, flammable, n.o.s.	131	3071
Mercaptan mixture, liquid, toxic, flammable, n.o.s.	131	3071
Mercaptans, liquid, flammable, n.o.s.	130	3336
Mercaptans, liquid, flammable, poisonous, n.o.s.	131	1228
Mercaptans, liquid, flammable, toxic, n.o.s.	131	1228
Mercaptans, liquid, poisonous, flammable, n.o.s.	131	3071
Mercaptans, liquid, toxic, flammable, n.o.s.	131	3071
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Mercuric oxycyanide	151	1642
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Mercuric sulfate	151	1645
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Mercurous bromide	154	1634
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Methane	115	1971
Methane, compressed	115	1971
Methane, refrigerated liquid (cryogenic liquid)	115	1972
Methane and Hydrogen mixture, compressed	115	2034
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Methanol	131	1230
[illegible]	[illegible]	[illegible]
4-Methoxy-4-methylpentan-2-one	128	2293
1-Methoxy-2-propanol	129	3092
Methyl acetate	129	1231
Methylacetylene and Propadiene mixture, stabilized	116P	1060
Methyl acrylate, stabilized	129P	1919
Methylal	127	1234
Methyl alcohol	131	1230
Methylallyl chloride	130P	2554
[illegible]	[illegible]	[illegible]
Methylamine, aqueous solution	132	1235
Methylamyl acetate	130	1233
Methylamyl alcohol	129	2053
Methyl amyl ketone	127	1110
N-Methylaniline	153	2294
alpha-Methylbenzyl alcohol	153	2937
alpha-Methylbenzyl alcohol, liquid	153	2937
alpha-Methylbenzyl alcohol, solid	153	3438
Methylbenzyl alcohol (alpha)	153	2937
[illegible]	[illegible]	[illegible]

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[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Methyl bromoacetate	155	2643
2-Methylbutanal	129	3371
3-Methylbutan-2-one	127	2397
2-Methyl-1-butene	128	2459
2-Methyl-2-butene	128	2460
3-Methyl-1-butene	128	2561
N-Methylbutylamine	132	2945
Methyl tert-butyl ether	127	2398
Methyl butyrate	129	1237
Methyl chloride	115	1063
[illegible]	[illegible]	[illegible]
Methyl chloride and Methylene chloride mixture	115	1912
Methyl chloroacetate	155	2295
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Methyl 2-chloropropionate	129	2933
[illegible]	[illegible]	[illegible]
Methylcyclohexane	128	2296
Methylcyclohexanols	129	2617
Methylcyclohexanone	128	2297
Methylcyclopentane	128	2298
Methyl dichloroacetate	155	2299
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Methylene chloride	160	1593
Methylene chloride and Methyl chloride mixture	115	1912
Methyl ethyl ether	115	1039

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Methyl ethyl ketone	127	1193
2-Methyl-5-ethylpyridine	153	2300
Methyl fluoride	115	2454
Methyl formate	129	1243
2-Methylfuran	128	2301
[illegible]	[illegible]	[illegible]
5-Methylhexan-2-one	127	2302
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Methyl isobutyl carbinol	129	2053
Methyl isobutyl ketone	127	1245
[illegible]	[illegible]	[illegible]
Methyl isopropenyl ketone, stabilized	127P	1246
[illegible]	[illegible]	[illegible]
Methyl isovalerate	130	2400
Methyl magnesium bromide in Ethyl ether	135	1928
[illegible]	[illegible]	[illegible]
Methyl methacrylate monomer, stabilized	129P	1247
4-Methylmorpholine	132	2535
N-Methylmorpholine	132	2535
Methyl nitrite	116	2455
[illegible]	[illegible]	[illegible]
Methylpentadiene	128	2461
2-Methylpentan-2-ol	129	2560
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
1-Methylpiperidine	132	2399
Methyl propionate	129	1248
Methyl propyl ether	127	2612

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Methyl propyl ketone	127	1249
Methyltetrahydrofuran	127	2536
Methyl trichloroacetate	156	2533
[illegible]	[illegible]	[illegible]
alpha-Methylvaleraldehyde	130	2367
Methyl valeraldehyde (alpha)	130	2367
[illegible]	[illegible]	[illegible]
M.I.B.C.	129	2053
Molten sulfur	133	2448
Molten sulphur	133	2448
Molybdenum pentachloride	156	2508
Monoethanolamine	153	2491
Mononitrotoluidines	153	2660
Morpholine	132	2054
Motor fuel anti-knock mixture	131	1649
Motor fuel anti-knock mixture, flammable	131	3483
Motor spirit	128	1203
Motor spirit and ethanol mixture, with more than 10% ethanol	127	3475
Muriatic acid	157	1789
Musk xylene	149	2956
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Naphthalene, crude	133	1334
Naphthalene, molten	133	2304
Naphthalene, refined	133	1334
alpha-Naphthylamine	153	2077
beta-Naphthylamine	153	1650
beta-Naphthylamine, solid	153	1650
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Naphthylamine (alpha)	153	2077

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Naphthylamine (beta), solid	153	1650
Naphthylamine (beta), solution	153	3411
Naphthylthiourea	153	1651
Naphthylurea	153	1652
Natural gas, compressed	115	1971
Natural gas, refrigerated liquid (cryogenic liquid)	115	1972
Neohexane	128	1208
Neon	121	1065
Neon, compressed	121	1065
Neon, refrigerated liquid (cryogenic liquid)	120	1913
[illegible]	[illegible]	[illegible]
Nickel catalyst, dry	135	2881
Nickel cyanide	151	1653
Nickel nitrate	140	2725
Nickel nitrite	140	2726
Nicotine	151	1654
Nicotine compound, liquid, n.o.s.	151	3144
Nicotine compound, solid, n.o.s.	151	1655
Nicotine hydrochloride	151	1656
Nicotine hydrochloride, liquid	151	1656
Nicotine hydrochloride, solid	151	3444
Nicotine hydrochloride, solution	151	1656
Nicotine preparation, liquid, n.o.s.	151	3144
Nicotine preparation, solid, n.o.s.	151	1655
Nicotine salicylate	151	1657
Nicotine sulfate, solid	151	1658

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Nicotine sulfate, solid	151	3445
Nicotine sulfate, solution	151	1658
Nicotine sulphate, solid	151	1658
Nicotine sulphate, solid	151	3445
Nicotine sulphate, solution	151	1658
Nicotine tartrate	151	1659
Nitrates, inorganic, aqueous solution, n.o.s.	140	3218
Nitrates, inorganic, n.o.s.	140	1477
Nitrating acid mixture with more than 50% nitric acid	157	1796
Nitrating acid mixture with not more than 50% nitric acid	157	1796
Nitrating acid mixture, spent, with more than 50% nitric acid	157	1826
Nitrating acid mixture, spent, with not more than 50% nitric acid	157	1826
Nitric acid, other than red fuming, with more than 70% nitric acid	157	2031
Nitric acid, other than red fuming, with not more than 70% nitric acid	157	2031
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Nitriles, flammable, poisonous, n.o.s.	131	3273
Nitriles, flammable, toxic, n.o.s.	131	3273

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Nitriles, poisonous, solid, n.o.s.	151	3439
Nitriles, solid, poisonous, n.o.s.	151	3439
Nitriles, solid, toxic, n.o.s.	151	3439
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Nitriles, toxic, solid, n.o.s.	151	3439
Nitrites, inorganic, aqueous solution, n.o.s.	140	3219
Nitrites, inorganic, n.o.s.	140	2627
Nitroanilines	153	1661
Nitroanisoles, liquid	152	2730
Nitroanisoles, solid	152	2730
Nitroanisoles, solid	152	3458
Nitrobenzene	152	1662
Nitrobenzenesulfonic acid	153	2305
Nitrobenzenesulphonic acid	153	2305
Nitrobenzotrifluorides	152	2306
Nitrobenzotrifluorides, liquid	152	2306
Nitrobenzotrifluorides, solid	152	3431
Nitrobromobenzenes, liquid	152	2732
Nitrobromobenzenes, solid	152	2732
Nitrobromobenzenes, solid	152	3459
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Nitrocellulose mixture, with pigment	133	2557
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Nitrocellulose, solution, flammable	127	2059
Nitrocellulose with alcohol	113	2556
Nitrocellulose with not less than 25% alcohol	113	2556
Nitrocellulose with water, not less than 25% water	113	2555
3-Nitro-4-chlorobenzotrifluoride	152	2307
Nitrocresols	153	2446
Nitrocresols, liquid	153	3434
Nitrocresols, solid	153	2446
Nitroethane	129	2842
Nitrogen	121	1066
Nitrogen, compressed	121	1066
Nitrogen, refrigerated liquid (cryogenic liquid)	120	1977
Nitrogen and Rare gases mixture, compressed	121	1981
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Nitrogen trifluoride	122	2451
Nitrogen trifluoride, compressed	122	2451
[illegible]	[illegible]	[illegible]

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Nitroglycerin, solution in alcohol, with more than 1% but not more than 5% Nitroglycerin	127	3064
Nitroglycerin, solution in alcohol, with not more than 1% Nitroglycerin	127	1204
Nitroglycerin mixture, desensitized, liquid, flammable, n.o.s., with not more than 30% Nitroglycerin	113	3343
Nitroglycerin mixture, desensitized, liquid, n.o.s., with not more than 30% Nitroglycerin	113	3357
Nitroglycerin mixture, desensitized, solid, n.o.s., with more than 2% but not more than 10% Nitroglycerin	113	3319
Nitroguanidine, wetted with not less than 20% water	113	1336
Nitrohydrochloric acid	157	1798
Nitromethane	129	1261
Nitronaphthalene	133	2538
Nitrophenols	153	1663
4-Nitrophenylhydrazine, with not less than 30% water	113	3376
Nitropropanes	129	2608
p-Nitrosodimethylaniline	135	1369
Nitrostarch, wetted with not less than 20% water	113	1337
Nitrosulphuric acid	157	2308
Nitrosylsulphuric acid, liquid	157	2308
Nitrosylsulphuric acid, solid	157	2308
Nitrosylsulphuric acid, solid	157	2308
Nitrosylsulphuric acid, liquid	157	2308
Nitrosylsulphuric acid, solid	157	2308
Nitrosylsulphuric acid, solid	157	2308
Nitrotoluenes, liquid	152	1664
Nitrotoluenes, solid	152	1664
Nitrotoluenes, solid	152	3446
Nitrotoluidines (mono)	153	2660
Nitrous oxide	122	1070
Nitrous oxide, compressed	122	1070
Nitrous oxide, refrigerated liquid	122	2201
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Nitroxylenes, liquid	152	1665
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Nitroxylenes, solid	152	3447
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Norbornadienes	130	2251
2,5-Norbornadiene, stabilized	128P	2251
Octadecyltrichlorosilane	156	1804
Octadiene	128P	2309
Octafluorobut-2-ene	126	2422
Octafluorocyclobutane	126	1976
Octafluoropropane	126	2424
Octanes	128	1262
Octyl aldehydes	129	1191
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Organic peroxide type B, liquid	146	3101
Organic peroxide type B, liquid, temperature controlled	148	3111
Organic peroxide type B, solid	146	3102
Organic peroxide type B, solid, temperature controlled	148	3112

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Organic peroxide type C, liquid	146	3103
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Organic peroxide type C, solid, temperature controlled	148	3114
Organic peroxide type D, liquid	145	3105
Organic peroxide type D, liquid, temperature controlled	148	3115
Organic peroxide type D, solid	145	3106
Organic peroxide type D, solid, temperature controlled	148	3116
Organic peroxide type E, liquid	145	3107
Organic peroxide type E, liquid, temperature controlled	148	3117
Organic peroxide type E, solid	145	3108
Organic peroxide type E, solid, temperature controlled	148	3118
Organic peroxide type F, liquid	145	3109
Organic peroxide type F, liquid, temperature controlled	148	3119
Organic peroxide type F, solid	145	3110
Organic peroxide type F, solid, temperature controlled	148	3120
Organic phosphate compound, mixed with compressed gas	126	3161
Organic phosphate mixed with compressed gas	126	3161
Organic phosphite compound mixed with compressed gas	126	3161
Organic pigments, self-heating	135	3313
Organoarsenic compound, liquid, n.o.s.	151	3466
Organoarsenic compound, solid, n.o.s.	151	3465
Organochlorine pesticide, liquid, flammable, poisonous	131	2762
Organochlorine pesticide, liquid, flammable, toxic	131	2762
Organochlorine pesticide, liquid, poisonous	151	2996
Organochlorine pesticide, liquid, poisonous, flammable	131	2995
Organochlorine pesticide, liquid, toxic	151	2996
Organochlorine pesticide, liquid, toxic, flammable	131	2995
Organochlorine pesticide, solid, poisonous	151	2761
Organochlorine pesticide, solid, toxic	151	2761
Organometallic compound, liquid, poisonous, n.o.s.	151	3282
Organometallic compound, liquid, toxic, n.o.s.	151	3282
Organometallic compound, poisonous, liquid, n.o.s.	151	3282
Organometallic compound, poisonous, n.o.s.	151	3282
Organometallic compound, poisonous, solid, n.o.s.	151	3467
Organometallic compound, solid, poisonous, n.o.s.	151	3467
Organometallic compound, solid, toxic, n.o.s.	151	3467

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Organometallic compound, toxic, liquid, n.o.s.	151	3282
Organometallic compound, toxic, n.o.s.	151	3282
Organometallic compound, toxic, solid, n.o.s.	151	3467
Organometallic compound, water-reactive, flammable, n.o.s.	138	3207
Organometallic compound dispersion, water-reactive, flammable, n.o.s.	138	3207
Organometallic compound solution, water-reactive, flammable, n.o.s.	138	3207
Organometallic substance, liquid, pyrophoric	135	3392
Organometallic substance, liquid, pyrophoric, water-reactive	135	3394
Organometallic substance, liquid, water-reactive	135	3398
Organometallic substance, liquid, water-reactive, flammable	138	3399
Organometallic substance, solid, pyrophoric	135	3391
Organometallic substance, solid, pyrophoric, water-reactive	135	3393
Organometallic substance, solid, self-heating	138	3400
Organometallic substance, solid, water-reactive	135	3395
Organometallic substance, solid, water-reactive, flammable	138	3396
Organometallic substance, solid, water-reactive, self-heating	138	3397
Organophosphate compound, solid, poisonous, n.o.s.	151	3464
Organophosphate compound, toxic, liquid, n.o.s.	151	3464
Organophosphate compound, toxic, liquid, flammable, n.o.s.	131	2784
Organophosphate compound, toxic, solid, n.o.s.	151	3464
Organophosphate compound, toxic, flammable, n.o.s.	131	2784
Organophosphite compound, toxic, liquid, n.o.s.	151	3464
Organophosphite compound, toxic, n.o.s.	151	3464
Organophosphorus compound, poisonous, solid, n.o.s.	151	3464
Organophosphorus compound, solid, poisonous, n.o.s.	151	3464
Organophosphorus compound, solid, toxic, n.o.s.	151	3464
Organophosphorus compound, toxic, flammable, n.o.s.	131	2784
Organophosphorus compound, toxic, liquid, n.o.s.	151	3464
Organophosphorus compound, toxic, n.o.s.	151	3464
Organophosphorus compound, toxic, solid, n.o.s.	151	3464
Organophosphorus pesticide, liquid, flammable, poisonous	131	2784
Organophosphorus pesticide, liquid, flammable, toxic	131	2784
Organophosphorus pesticide, liquid, poisonous	152	3018
Organophosphorus pesticide, liquid, poisonous, flammable	131	3017
Organophosphorus pesticide, liquid, toxic	152	3018
Organophosphorus pesticide, liquid, toxic, flammable	131	3017
Organophosphorus pesticide, solid, poisonous	152	2783
Organophosphorus pesticide, solid, toxic	152	2783

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Organotin compound, liquid, n.o.s.	153	2788
Organotin compound, solid, n.o.s.	153	3146
Organotin pesticide, liquid, flammable, poisonous	131	2787
Organotin pesticide, liquid, flammable, toxic	131	2787
Organotin pesticide, liquid, poisonous	153	3020
Organotin pesticide, liquid, poisonous, flammable	131	3019
Organotin pesticide, liquid, toxic	153	3020
Organotin pesticide, liquid, toxic, flammable	131	3019
Organotin pesticide, solid, poisonous	153	2786
Organotin pesticide, solid, toxic	153	2786
Osmium tetroxide	154	2471
Other regulated substances, liquid, n.o.s.	171	3082
Other regulated substances, solid, n.o.s.	171	3077
Oxidizing liquid, corrosive, n.o.s.	140	3098
Oxidizing liquid, n.o.s.	140	3139
Oxidizing liquid, poisonous, n.o.s.	142	3099
Oxidizing liquid, toxic, n.o.s.	142	3099
Oxidizing solid, corrosive, n.o.s.	140	3085
Oxidizing solid, flammable, n.o.s.	140	3137
Oxidizing solid, n.o.s.	140	1479
Oxidizing solid, poisonous, n.o.s.	141	3087
Oxidizing solid, self-heating, n.o.s.	135	3100
Oxidizing solid, toxic, n.o.s.	141	3087
Oxidizing solid, water-reactive, n.o.s.	144	3121
Oxygen	122	1072
Oxygen, compressed	122	1072
Oxygen, refrigerated liquid (cryogenic liquid)	122	1073
Oxygen and Carbon dioxide mixture, compressed	122	1014
Oxygen and Rare gases mixture, compressed	121	1980
Oxygen difluoride	124	2190
Oxygen difluoride, compressed	124	2190
Oxygen generator, chemical	140	3356
Oxygen generator, chemical, spent	140	3356
Packaging discarded, empty, uncleaned	171	3509
Paint (corrosive)	153	3066
Paint, corrosive, flammable	132	3470
Paint (flammable)	128	1263
Paint, flammable, corrosive	132	3469
Paint related material (corrosive)	153	3066
Paint related material, corrosive, flammable	132	3470
Paint related material (flammable)	128	1263
Paint related material, flammable, corrosive	132	3469
Paper, unsaturated oil treated	133	1379
Paraformaldehyde	133	2213
Paraldehyde	129	1264

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
PCB	171	2315
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Pentachloroethane	151	1669
Pentachlorophenol	154	3155
Pentaerythrite tetranitrate mixture, desensitized, solid, n.o.s., with more than 10% but not more than 20% PETN	113	3344
Pentaerythritol tetranitrate mixture, desensitized, solid, n.o.s., with more than 10% but not more than 20% PETN	113	3344
Pentafluoroethane	126	3220
Pentafluoroethane and Ethylene oxide mixture, with not more than 7.9% Ethylene oxide	126	3298
Pentamethylheptane	128	2286
Pentane-2,4-dione	131	2310
Pentanes	128	1265
Pentanols	129	1105
1-Pentene	128	1108
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Perchlorates, inorganic, aqueous solution, n.o.s.	140	3211
Perchlorates, inorganic, n.o.s.	140	1481
Perchloric acid, with more than 50% but not more than 72% acid	143	1873
Perchloric acid, with not more than 50% acid	140	1802
Perchloroethylene	160	1897
[illegible]	[illegible]	[illegible]

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
Perfluoro(ethyl vinyl ether)	115	3154
Perfluoro(methyl vinyl ether)	115	3153
Perfumery products, with flammable solvents	127	1266
Permanganates, inorganic, aqueous solution, n.o.s.	140	3214
Permanganates, inorganic, n.o.s.	140	1482
Peroxides, inorganic, n.o.s.	140	1483
Peroxyacetic acid and hydrogen peroxide mixture, with acid(s), water and not more than 5% Peroxyacetic acid, stabilized	140	3149
Persulfates, inorganic, aqueous solution, n.o.s.	140	3216
Persulfates, inorganic, n.o.s.	140	3215
Persulphates, inorganic, aqueous solution, n.o.s.	140	3216
Persulphates, inorganic, n.o.s.	140	3215
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Pesticide, liquid, flammable, toxic, n.o.s.	131	3021
Pesticide, liquid, poisonous, flammable, n.o.s.	131	2903
Pesticide, liquid, poisonous, n.o.s.	151	2902
Pesticide, liquid, toxic, flammable, n.o.s.	131	2903
Pesticide, liquid, toxic, n.o.s.	151	2902
Pesticide, solid, poisonous, n.o.s.	151	2588
Pesticide, solid, toxic, n.o.s.	151	2588
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Petrol and ethanol mixture, with more than 10% ethanol	127	3475
Petroleum crude oil	128	1267
Petroleum distillates, n.o.s.	128	1268
Petroleum gases, liquefied	115	1075
Petroleum oil	128	1270
Petroleum products, n.o.s.	128	1268
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Phenacyl bromide	153	2645
Phenetidines	153	2311
Phenol, molten	153	2312
Phenol, solid	153	1671
Phenol solution	153	2821
Phenolates, liquid	154	2904
Phenolates, solid	154	2905
Phenolsulfonic acid, liquid	153	1803
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Phenoxyacetic acid derivative pesticide, liquid, flammable, poisonous	131	3346
Phenoxyacetic acid derivative pesticide, liquid, flammable, toxic	131	3346
Phenoxyacetic acid derivative pesticide, liquid, poisonous	153	3348
Phenoxyacetic acid derivative pesticide, liquid, poisonous, flammable	131	3347
Phenoxyacetic acid derivative pesticide, liquid, toxic	153	3348
Phenoxyacetic acid derivative pesticide, liquid, toxic, flammable	131	3347

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Phenoxyacetic acid derivative pesticide, solid, poisonous	153	3345
Phenoxyacetic acid derivative pesticide, solid, toxic	153	3345
Phenylacetonitrile, liquid	152	2470
Phenylacetyl chloride	156	2577
[illegible]	[illegible]	[illegible]
Phenyl chloroformate	156	2746
Phenylenediamines	153	1673
Phenylhydrazine	153	2572
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Phenylmercuric acetate	151	1674
Phenylmercuric compound, n.o.s.	151	2026
Phenylmercuric hydroxide	151	1894
Phenylmercuric nitrate	151	1895
Phenylphosphorus dichloride	137	2798
Phenylphosphorus thiodichloride	137	2799
[illegible]	[illegible]	[illegible]
Phenyl urea pesticide, liquid, poisonous	151	3002
Phenyl urea pesticide, liquid, toxic	151	3002
[illegible]	[illegible]	[illegible]
9-Phosphabicyclononanes	135	2940
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Phosphoric acid, liquid	154	1805
Phosphoric acid, solid	154	1805
Phosphoric acid, solid	154	3453
Phosphoric acid, solution	154	1805
Phosphorous acid	154	2834

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Phosphorus, white, dry or under water or in solution	136	1381
Phosphorus, white, molten	136	2447
Phosphorus, yellow, dry or under water or in solution	136	1381
Phosphorus heptasulfide, free from yellow and white Phosphorus	139	1339
Phosphorus heptasulphide, free from yellow and white Phosphorus	139	1339
Phosphorus oxybromide	137	1939
Phosphorus oxybromide, molten	137	2576
Phosphorus oxybromide, solid	137	1939
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
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[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Phosphorus pentoxide	137	1807
Phosphorus sesquisulfide, free from yellow and white Phosphorus	139	1341
Phosphorus sesquisulphide, free from yellow and white Phosphorus	139	1341
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

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Phosphorus trioxide	157	2578
Phosphorus trisulfide, free from yellow and white Phosphorus	139	1343
Phosphorus trisulphide, free from yellow and white Phosphorus	139	1343
Phthalic anhydride	156	2214
Picolines	129	2313
Picric acid, wetted with not less than 10% water	113	3364
Picric acid, wetted with not less than 30% water	113	1344
Picrite, wetted with not less than 20% water	113	1336
Picryl chloride, wetted with not less than 10% water	113	3365
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Pinene (alpha)	128	2368
Pine oil	129	1272
Piperazine	153	2579
Piperidine	132	2401
Plastic molding compound	171	3314
Plastics moulding compound	171	3314
Plastics, nitrocellulose-based, self-heating, n.o.s.	135	2006
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Poisonous liquid, corrosive, inorganic, n.o.s.	154	3289
Poisonous liquid, corrosive, organic, n.o.s.	154	2927
Poisonous liquid, flammable, organic, n.o.s.	131	2929

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Poisonous liquid, organic, n.o.s.	153	2810
Poisonous liquid, oxidizing, n.o.s.	142	3122
Poisonous liquid, water-reactive, n.o.s.	139	3123
Poisonous solid, corrosive, inorganic, n.o.s.	154	3290
Poisonous solid, corrosive, organic, n.o.s.	154	2928
Poisonous solid, flammable, organic, n.o.s.	134	2930
Poisonous solid, inorganic, n.o.s.	151	3288
Poisonous solid, organic, n.o.s.	154	2811
Poisonous solid, oxidizing, n.o.s.	141	3086
Poisonous solid, self-heating, n.o.s.	136	3124
Poisonous solid, water-reactive, n.o.s.	139	3125
Polyalkylamines, n.o.s.	132	2733
Polyalkylamines, n.o.s.	132	2734
Polyalkylamines, n.o.s.	153	2735
Polyamines, flammable, corrosive, n.o.s.	132	2733
Polyamines, liquid, corrosive, flammable, n.o.s.	132	2734
Polyamines, liquid, corrosive, n.o.s.	153	2735
Polyamines, solid, corrosive, n.o.s.	154	3259
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Polychlorinated biphenyls, liquid	171	2315

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Polyester resin kit, solid base material	128P	3527
Polyhalogenated biphenyls, liquid	171	3151
Polyhalogenated biphenyls, solid	171	3152
Polyhalogenated terphenyls, liquid	171	3151
Polyhalogenated terphenyls, solid	171	3152
Polymeric beads, expandable	133	2211
Polymerizing substance, liquid, stabilized, n.o.s.	149P	3532
Polymerizing substance, liquid, temperature controlled, n.o.s.	150P	3534
Polymerizing substance, solid, stabilized, n.o.s.	149P	3531
Polymerizing substance, solid, temperature controlled, n.o.s.	150P	3533
Polystyrene beads, expandable	133	2211
Potassium	138	2257
Potassium, metal	138	2257
Potassium, metal alloys	138	1420
Potassium, metal alloys, liquid	138	1420
Potassium, metal alloys, solid	138	3403
Potassium arsenate	151	1677
Potassium arsenite	154	1678
Potassium borohydride	138	1870
Potassium bromate	140	1484
Potassium chlorate	140	1485
Potassium chlorate, aqueous solution	140	2427
Potassium cuprocyanide	157	1679
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Potassium cyanide, solution	157	3413
[illegible]	[illegible]	[illegible]
Potassium fluoride	154	1812
Potassium fluoride, solid	154	1812
Potassium fluoride, solution	154	3422
Potassium fluoroacetate	151	2628
Potassium fluorosilicate	151	2655
Potassium hydrogendifluoride	154	1811
Potassium hydrogen difluoride, solid	154	1811
Potassium hydrogen difluoride, solution	154	3421
Potassium hydrogen sulfate	154	2509
Potassium hydrogen sulphate	154	2509
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Potassium hydroxide, solid	154	1813
Potassium hydroxide, solution	154	1814
Potassium metavanadate	151	2864
Potassium monoxide	154	2033
Potassium nitrate	140	1486
Potassium nitrate and Sodium nitrate mixture	140	1499
Potassium nitrate and Sodium nitrite mixture	140	1487
Potassium nitrite	140	1488
Potassium perchlorate	140	1489
Potassium permanganate	140	1490
Potassium peroxide	144	1491

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Potassium persulfate	140	1492
Potassium persulphate	140	1492
[illegible]	[illegible]	[illegible]
Potassium silicofluoride	151	2655
Potassium sodium alloys	138	1422
Potassium sodium alloys, liquid	138	1422
Potassium sodium alloys, solid	138	3404
Potassium sulfide, anhydrous	135	1382
Potassium sulfide, hydrated, with not less than 30% water of crystallization	153	1847
Potassium sulfide, with less than 30% water of crystallization	135	1382
Potassium sulphide, anhydrous	135	1382
Potassium sulphide, hydrated, with not less than 30% water of crystallization	153	1847
Potassium sulphide, with less than 30% water of crystallization	135	1382
Potassium superoxide	143	2466
Printing ink, flammable	129	1210
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Propadiene, stabilized	116P	2200
Propadiene and Methylacetylene mixture, stabilized	116P	1060
Propane	115	1075
Propane	115	1978
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Propanethiols	130	2402
n-Propanol	129	1274
Propionaldehyde	129	1275
Propionic acid	132	1848
Propionic acid, with not less than 10% and less than 90% acid	132	1848
Propionic acid, with not less than 90% acid	132	3463
Propionic anhydride	156	2496
Propionitrile	131	2404
[illegible]	[illegible]	[illegible]
n-Propyl acetate	129	1276
Propyl alcohol, normal	129	1274
Propylamine	132	1277
n-Propyl benzene	128	2364
Propyl chloride	129	1278
[illegible]	[illegible]	[illegible]
Propylene	115	1075
Propylene	115	1077
Propylene, Ethylene and Acetylene in mixture, refrigerated liquid containing at least 71.5% Ethylene with not more than 22.5% Acetylene and not more than 6% Propylene	115	3138
Propylene chlorohydrin	131	2611
1,2-Propylenediamine	132	2258
Propyleneimine, stabilized	131P	1921
Propylene oxide	127P	1280
Propylene oxide and Ethylene oxide mixture, with not more than 30% Ethylene oxide	129P	2983
Propylene tetramer	128	2850
Propyl formates	129	1281
[illegible]	[illegible]	[illegible]
n-Propyl nitrate	131	1865
[illegible]	[illegible]	[illegible]

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Pyrethroid pesticide, liquid, flammable, poisonous	131	3350
Pyrethroid pesticide, liquid, flammable, toxic	131	3350
Pyrethroid pesticide, liquid, poisonous	151	3352
Pyrethroid pesticide, liquid, poisonous, flammable	131	3351
Pyrethroid pesticide, liquid, toxic	151	3352
Pyrethroid pesticide, liquid, toxic, flammable	131	3351
Pyrethroid pesticide, solid, poisonous	151	3349
Pyrethroid pesticide, solid, toxic	151	3349
Pyridine	129	1282
Pyrophoric alloy, n.o.s.	135	1383
Pyrophoric liquid, inorganic, n.o.s.	135	3194
Pyrophoric liquid, organic, n.o.s.	135	2845
Pyrophoric metal, n.o.s.	135	1383
Pyrophoric organometallic compound, water-reactive, n.o.s.	135	3203
Pyrophoric solid, inorganic, n.o.s.	135	3200
Pyrophoric solid, organic, n.o.s.	135	2846
Pyrosulfuryl chloride	137	1817
Pyrosulphuryl chloride	137	1817
Pyrrolidine	132	1922
Quinoline	154	2656
Radioactive material, excepted package, articles manufactured from depleted Uranium	161	2909
Radioactive material, excepted package, articles manufactured from natural Thorium	161	2909
Radioactive material, excepted package, articles manufactured from natural Uranium	161	2909
Radioactive material, excepted package, empty packaging	161	2908
Radioactive material, excepted package, instruments or articles	161	2911
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Radioactive material, low specific activity (LSA-I), non fissile or fissile-excepted	162	2912
Radioactive material, low specific activity (LSA-II), fissile	165	3324
Radioactive material, low specific activity (LSA-II), non fissile or fissile-excepted	162	3321
Radioactive material, low specific activity (LSA-III), fissile	165	3325
Radioactive material, low specific activity (LSA-III), non fissile or fissile-excepted	162	3322
Radioactive material, surface contaminated objects (SCO-I), fissile	165	3326
Radioactive material, surface contaminated objects (SCO-I), non fissile or fissile-excepted	162	2913
Radioactive material, surface contaminated objects (SCO-II), fissile	165	3326

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Radioactive material, surface contaminated objects (SCO-II), non fissile or fissile-excepted	162	2913
Radioactive material, transported under special arrangement, fissile	165	3331
Radioactive material, transported under special arrangement, non fissile or fissile-excepted	163	2919
Radioactive material, Type A package, fissile, non-special form	165	3327
Radioactive material, Type A package, non-special form, non fissile or fissile-excepted	163	2915
Radioactive material, Type A package, special form, fissile	165	3333
Radioactive material, Type A package, special form, non fissile or fissile-excepted	164	3332
Radioactive material, Type B(M) package, fissile	165	3329
Radioactive material, Type B(M) package, non fissile or fissile-excepted	163	2917
Radioactive material, Type B(U) package, fissile	165	3328
Radioactive material, Type B(U) package, non fissile or fissile-excepted	163	2916
Radioactive material, Type C package, fissile	165	3330
Radioactive material, Type C package, non fissile or fissile excepted	163	3323
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Rags, oily	133	1856
Rare gases and Nitrogen mixture, compressed	121	1981
Rare gases and Oxygen mixture, compressed	121	1980
Rare gases mixture, compressed	121	1979
Receptacles, small, containing gas	115	2037
Red phosphorus	133	1338
Refrigerant gas, n.o.s.	126	1078
Refrigerant gases, n.o.s. (flammable)	115	1954
Refrigerant gas R-12	126	1028
Refrigerant gas R-12B1	126	1974
Refrigerant gas R-12B2	171	1941
Refrigerant gas R-13	126	1022
Refrigerant gas R-13B1	126	1009
Refrigerant gas R-14	126	1982
Refrigerant gas R-14, compressed	126	1982
Refrigerant gas R-21	126	1029
Refrigerant gas R-22	126	1018
Refrigerant gas R-23	126	1984
Refrigerant gas R-32	115	3252
Refrigerant gas R-40	115	1063
Refrigerant gas R-41	115	2454
Refrigerant gas R-114	126	1958
Refrigerant gas R-115	126	1020
Refrigerant gas R-116	126	2193
Refrigerant gas R-116, compressed	126	2193
Refrigerant gas R-124	126	1021
Refrigerant gas R-125	126	3220
Refrigerant gas R-133a	126	1983

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Refrigerant gas R-142b	115	2517
Refrigerant gas R-143a	115	2035
Refrigerant gas R-152a	115	1030
Refrigerant gas R-161	115	2453
Refrigerant gas R-218	126	2424
Refrigerant gas R-227	126	3296
Refrigerant gas R-404A	126	3337
Refrigerant gas R-407A	126	3338
Refrigerant gas R-407B	126	3339
Refrigerant gas R-407C	126	3340
Refrigerant gas R-500	126	2602
Refrigerant gas R-502	126	1973
Refrigerant gas R-503	126	2599
Refrigerant gas R-1113	119P	1082
Refrigerant gas R-1132a	116P	1959
Refrigerant gas R-1216	126	1858
Refrigerant gas R-1318	126	2422
Refrigerant gas RC-318	126	1976
Refrigerating machines, containing Ammonia solutions (UN2672)	126	2857
Refrigerating machines, containing flammable, non-poisonous, liquefied gas	115	3358
Refrigerating machines, containing flammable, non-toxic, liquefied gas	115	3358
Refrigerating machines, containing non-flammable, non-poisonous gases	126	2857
Refrigerating machines, containing non-flammable, non-toxic gases	126	2857
Regulated medical waste, n.o.s.	158	3291
Resin solution	127	1866
Resorcinol	153	2876
Rosin oil	127	1286
Rubber scrap, powdered or granulated	133	1345
Rubber shoddy, powdered or granulated	133	1345
Rubber solution	127	1287
Rubidium	138	1423
Rubidium hydroxide	154	2678
Rubidium hydroxide, solid	154	2678
Rubidium hydroxide, solution	154	2677
Rubidium metal	138	1423
Safety devices	171	3268
Seat-belt pre-tensioners	171	3268
Seed cake, with more than 1.5% oil and not more than 11% moisture	135	1386
Seed cake, with not more than 1.5% oil and not more than 11% moisture	135	2217
Selenates	151	2630
Selenic acid	154	1905
Selenites	151	2630
Selenium compound, liquid, n.o.s.	151	3440
Selenium compound, n.o.s.	151	3283
Selenium compound, solid, n.o.s.	151	3283
Selenium disulfide	153	2657
Selenium disulphide	153	2657
Selenium oxychloride	157	2879

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Self-defense spray, non-pressurized	171	3334
Self-heating liquid, corrosive, inorganic, n.o.s.	136	3188
Self-heating liquid, corrosive, organic, n.o.s.	136	3185
Self-heating liquid, inorganic, n.o.s.	135	3186
Self-heating liquid, organic, n.o.s.	135	3183
Self-heating liquid, poisonous, inorganic, n.o.s.	136	3187
Self-heating liquid, poisonous, organic, n.o.s.	136	3184
Self-heating liquid, toxic, inorganic, n.o.s.	136	3187
Self-heating liquid, toxic, organic, n.o.s.	136	3184
Self-heating solid, corrosive, inorganic, n.o.s.	136	3192
Self-heating solid, corrosive, organic, n.o.s.	136	3126
Self-heating solid, inorganic, n.o.s.	135	3190
Self-heating solid, organic, n.o.s.	135	3088
Self-heating solid, oxidizing, n.o.s.	135	3127
Self-heating solid, poisonous, inorganic, n.o.s.	136	3191
Self-heating solid, poisonous, organic, n.o.s.	136	3128
Self-heating solid, toxic, inorganic, n.o.s.	136	3191
Self-heating solid, toxic, organic, n.o.s.	136	3128
Self-reactive liquid type B	149	3221
Self-reactive liquid type B, temperature controlled	150	3231
Self-reactive liquid type C	149	3223
Self-reactive liquid type C, temperature controlled	150	3233
Self-reactive liquid type D	149	3225
Self-reactive liquid type D, temperature controlled	150	3235
Self-reactive liquid type E	149	3227
Self-reactive liquid type E, temperature controlled	150	3237
Self-reactive liquid type F	149	3229
Self-reactive liquid type F, temperature controlled	150	3239
Self-reactive solid type B	149	3222
Self-reactive solid type B, temperature controlled	150	3232
Self-reactive solid type C	149	3224
Self-reactive solid type C, temperature controlled	150	3234
Self-reactive solid type D	149	3226
Self-reactive solid type D, temperature controlled	150	3236
Self-reactive solid type E	149	3228
Self-reactive solid type E, temperature controlled	150	3238
Self-reactive solid type F	149	3230
Self-reactive solid type F, temperature controlled	150	3240
Shale oil	128	1288
Silane	116	2203
Silane, compressed	116	2203
Silicofluorides, n.o.s.	151	2856
Silicon powder, amorphous	170	1346
Silicon tetrachloride	137	1818
Silicon tetrafluoride	125	1859
Silicon tetrafluoride, adsorbed	173	3521
Silicon tetrafluoride, compressed	125	1859

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Silver arsenite	151	1683
Silver cyanide	151	1684
Silver nitrate	140	1493
Silver picrate, wetted with not less than 30% water	113	1347
Sludge acid	153	1906
Smokeless powder for small arms	133	3178
Soda lime, with more than 4% Sodium hydroxide	154	1907
Sodium	138	1428
Sodium aluminate, solid	154	2812
Sodium aluminate, solution	154	1819
Sodium aluminum hydride	138	2835
Sodium ammonium vanadate	154	2863
Sodium arsanilate	154	2473
Sodium arsenate	151	1685
Sodium arsenite, aqueous solution	154	1686
Sodium arsenite, solid	151	2027
Sodium azide	153	1687
Sodium, batteries containing	138	3292
Sodium bisulfate, solution	154	2837
Sodium bisulphate, solution	154	2837
Sodium borohydride	138	1426
Sodium borohydride and Sodium hydroxide solution, with not more than 12% Sodium borohydride and not more than 40% Sodium hydroxide	157	3320
Sodium bromate	141	1494
Sodium cacodylate	152	1688
Sodium carbonate peroxyhydrate	140	3378
Sodium chlorate	140	1495
Sodium chlorate, aqueous solution	140	2428
Sodium chlorite	143	1496
Sodium chloroacetate	151	2659
Sodium cuprocyanide, solid	157	2316
Sodium cuprocyanide, solution	157	2317
Sodium cyanide	157	1689
Sodium cyanide, solid	157	1689
Sodium cyanide, solution	157	3414
Sodium dichloroisocyanurate	140	2465
Sodium dichloro-s-triazinetrione	140	2465
Sodium dinitro-o-cresolate, wetted with not less than 10% water	113	3369
Sodium dinitro-o-cresolate, wetted with not less than 15% water	113	1348
Sodium fluoride	154	1690
Sodium fluoride, solid	154	1690
Sodium fluoride, solution	154	3415
Sodium fluoroacetate	151	2629
Sodium fluorosilicate	154	2674
Sodium hydride	138	1427
Sodium hydrogendifluoride	154	2439
Sodium hydrosulfide, hydrated, with not less than 25% water of crystallization	154	2949
Sodium hydrosulfide, with less than 25% water of crystallization	135	2318
Sodium hydrosulfide, with not less than 25% water of crystallization	154	2949
Sodium hydrosulphide	135	2318

Name of Material	Guide No.	ID No.
Sodium hydrosulphide, hydrated, with not less than 25% water of crystallization	154	2949
Sodium hydrosulphide, with less than 25% water of crystallization	135	2318
Sodium hydrosulphide, with not less than 25% water of crystallization	154	2949
Sodium hydrosulphite	135	1384
Sodium hydroxide, solid	154	1823
Sodium hydroxide, solution	154	1824
Sodium hypochlorite	154	1791
Sodium methylate	138	1431
Sodium methylate, dry	138	1431
Sodium methylate, solution in alcohol	132	1289
Sodium monoxide	157	1825
Sodium nitrate	140	1498
Sodium nitrate and Potassium nitrate mixture	140	1499
Sodium nitrite	140	1500
Sodium nitrite and Potassium nitrate mixture	140	1487
Sodium pentachlorophenate	154	2567
Sodium perborate monohydrate	140	3377
Sodium perchlorate	140	1502
Sodium permanganate	140	1503
Sodium peroxide	144	1504
Sodium peroxoborate, anhydrous	140	3247
Sodium persulfate	140	1505
Sodium persulphate	140	1505
Sodium picramate	113	3482
Sodium picramate, wetted with not less than 20% water	113	1349
Sodium potassium alloys	138	1422
Sodium potassium alloys, liquid	138	1422
Sodium potassium alloys, solid	138	3404
Sodium silicofluoride	154	2674
Sodium sulfide, anhydrous	135	1385
Sodium sulfide, hydrated, with not less than 30% water	153	1849
Sodium sulfide, with less than 30% water of crystallization	135	1385
Sodium sulphide, anhydrous	135	1385
Sodium sulphide, hydrated, with not less than 30% water	153	1849
Sodium sulphide, with less than 30% water of crystallization	135	1385
Sodium superoxide	143	2547
Solids containing corrosive liquid, n.o.s.	154	3244
Solids containing flammable liquid, n.o.s.	133	3175
Solids containing poisonous liquid, n.o.s.	151	3243
Solids containing toxic liquid, n.o.s.	151	3243
Soman	153	2810
Stannic chloride, anhydrous	137	1827
Stannic chloride, pentahydrate	154	2440
Stannic phosphides	139	1433
Stibine	119	2676
Straw, wet, damp or contaminated with oil	133	1327
Strontium arsenite	151	1691
Strontium chlorate	143	1506
Strontium nitrate	140	1507
Strontium perchlorate	140	1508

Name of Material	Guide No.	ID No.
Strontium peroxide	143	1509
[illegible]	[illegible]	[illegible]
Strychnine	151	1692
Strychnine salts	151	1692
Styrene monomer, stabilized	128P	2055
Substituted nitrophenol pesticide, liquid, flammable, poisonous	131	2780
Substituted nitrophenol pesticide, liquid, flammable, toxic	131	2780
Substituted nitrophenol pesticide, liquid, poisonous	153	3014
Substituted nitrophenol pesticide, liquid, poisonous, flammable	131	3013
Substituted nitrophenol pesticide, liquid, toxic	153	3014
Substituted nitrophenol pesticide, liquid, toxic, flammable	131	3013
Substituted nitrophenol pesticide, solid, poisonous	153	2779
Substituted nitrophenol pesticide, solid, toxic	153	2779
Sulfamic acid	154	2967
Sulfur	133	1350
Sulfur, molten	133	2448
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Sulfur hexafluoride	126	1080
Sulfuric acid	137	1830
[illegible]	[illegible]	[illegible]
Sulfuric acid, fuming, with less than 30% free Sulfur trioxide	137	1831

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
Sulfuric acid, spent	137	1832
Sulfuric acid, with more than 51% acid	137	1830
Sulfuric acid, with not more than 51% acid	157	2796
Sulfuric acid and Hydrofluoric acid mixture	157	1786
Sulfurous acid	154	1833
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Sulphamic acid	154	2967
Sulphur	133	1350
Sulphur, molten	133	2448
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Sulphur hexafluoride	126	1080
Sulphuric acid	137	1830
[illegible]	[illegible]	[illegible]
Sulphuric acid, fuming, with less than 30% free Sulphur trioxide	137	1831
[illegible]	[illegible]	[illegible]
Sulphuric acid, spent	137	1832
Sulphuric acid, with more than 51% acid	137	1830
Sulphuric acid, with not more than 51% acid	157	2796
Sulphuric acid and Hydrofluoric acid mixture	157	1786
Sulphurous acid	154	1833

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Tars, liquid	130	1999
Tear gas candles	159	1700
Tear gas devices	159	1693
Tear gas grenades	159	1700
Tear gas substance, liquid, n.o.s.	159	1693
Tear gas substance, solid, n.o.s.	159	1693
Tear gas substance, solid, n.o.s.	159	3448
Tellurium compound, n.o.s.	151	3284
[illegible]	[illegible]	[illegible]
Terpene hydrocarbons, n.o.s.	128	2319
Terpinolene	128	2541
Tetrabromoethane	159	2504
1,1,2,2-Tetrachloroethane	151	1702
Tetrachloroethane	151	1702
Tetrachloroethylene	160	1897
Tetraethyl dithiopyrophosphate	153	1704
Tetraethylenepentamine	153	2320
Tetraethyl silicate	129	1292
1,1,1,2-Tetrafluoroethane	126	3159
Tetrafluoroethane and Ethylene oxide mixture, with not more than 5.6% Ethylene oxide	126	3299
Tetrafluoroethylene, stabilized	116P	1081
Tetrafluoromethane	126	1982

Name of Material	Guide No.	ID No.
Tetrafluoromethane, compressed	126	1982
1,2,3,6-Tetrahydrobenzaldehyde	129	2498
Tetrahydrofuran	127	2056
Tetrahydrofurfurylamine	129	2943
Tetrahydrophthalic anhydrides	156	2698
1,2,3,6-Tetrahydropyridine	129	2410
Tetrahydrothiophene	130	2412
Tetramethylammonium hydroxide	153	1835
Tetramethylammonium hydroxide, solid	153	3423
Tetramethylammonium hydroxide, solution	153	1835
Tetramethylsilane	130	2749
[illegible]	[illegible]	[illegible]
Tetrapropyl orthotitanate	128	2413
Textile waste, wet	133	1857
Thallium chlorate	141	2573
Thallium compound, n.o.s.	151	1707
Thallium nitrate	141	2727
4-Thiapentanal	152	2785
[illegible]	[illegible]	[illegible]
Thioacetic acid	129	2436
Thiocarbamate pesticide, liquid, flammable, poisonous	131	2772
Thiocarbamate pesticide, liquid, flammable, toxic	131	2772
Thiocarbamate pesticide, liquid, poisonous	151	3006
Thiocarbamate pesticide, liquid, poisonous, flammable	131	3005
Thiocarbamate pesticide, liquid, toxic	151	3006

Name of Material	Guide No.	ID No.
Thiocarbamate pesticide, liquid, toxic, flammable	131	3005
Thiocarbamate pesticide, solid, poisonous	151	2771
Thiocarbamate pesticide, solid, toxic	151	2771
Thioglycol	153	2966
Thioglycolic acid	153	1940
Thiolactic acid	153	2936
[illegible]	[illegible]	[illegible]
Thiophene	130	2414
[illegible]	[illegible]	[illegible]
Thiophosphoryl chloride	157	1837
Thiourea dioxide	135	3341
Tinctures, medicinal	127	1293
Tin tetrachloride	137	1827
Titanium disulfide	135	3174
Titanium disulphide	135	3174
Titanium hydride	170	1871
Titanium powder, dry	135	2546
Titanium powder, wetted with not less than 25% water	170	1352
Titanium sponge granules	170	2878
Titanium sponge powders	170	2878
[illegible]	[illegible]	[illegible]
Titanium trichloride, pyrophoric	135	2441
Titanium trichloride mixture	157	2869
Titanium trichloride mixture, pyrophoric	135	2441
TNT, wetted with not less than 10% water	113	3366
TNT, wetted with not less than 30% water	113	1356
Toluene	130	1294

Name of Material	Guide No.	ID No.
2,4-Toluenediamine, solid	151	1709
2,4-Toluenediamine, solution	151	3418
Toluene diisocyanate	156	2078
Toluidines, liquid	153	1708
Toluidines, solid	153	1708
Toluidines, solid	153	3451
2,4-Toluylenediamine	151	1709
2,4-Toluylenediamine, solid	151	1709
2,4-Toluylenediamine, solution	151	3418
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

Name of Material	Guide No.	ID No.
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Toxic liquid, corrosive, inorganic, n.o.s.	154	3289
Toxic liquid, corrosive, organic, n.o.s.	154	2927
Toxic liquid, flammable, organic, n.o.s.	131	2929
Toxic liquid, inorganic, n.o.s.	151	3287
Toxic liquid, organic, n.o.s.	153	2810
Toxic liquid, oxidizing, n.o.s.	142	3122
Toxic liquid, water-reactive, n.o.s.	139	3123
Toxic solid, corrosive, inorganic, n.o.s.	154	3290
Toxic solid, corrosive, organic, n.o.s.	154	2928
Toxic solid, flammable, organic, n.o.s.	134	2930
Toxic solid, inorganic, n.o.s.	151	3288
Toxic solid, organic, n.o.s.	154	2811
Toxic solid, oxidizing, n.o.s.	141	3086

Name of Material	Guide No.	ID No.
Toxic solid, self-heating, n.o.s.	136	3124
Toxic solid, water-reactive, n.o.s.	139	3125
Toxins	153	——
Toxins, extracted from living sources, liquid, n.o.s.	153	3172
Toxins, extracted from living sources, solid, n.o.s.	153	3172
Toxins, extracted from living sources, solid, n.o.s.	153	3462
Triallylamine	132	2610
Triallyl borate	156	2609
Triazine pesticide, liquid, flammable, poisonous	131	2764
Triazine pesticide, liquid, flammable, toxic	131	2764
Triazine pesticide, liquid, poisonous	151	2998
Triazine pesticide, liquid, poisonous, flammable	131	2997
Triazine pesticide, liquid, toxic	151	2998
Triazine pesticide, liquid, toxic, flammable	131	2997
Triazine pesticide, solid, poisonous	151	2763
Triazine pesticide, solid, toxic	151	2763
Tributylamine	153	2542
Tributylphosphane	135	3254
Trichloroacetic acid	153	1839
Trichloroacetic acid, solution	153	2564
[illegible]	[illegible]	[illegible]
Trichlorobenzenes, liquid	153	2321
Trichlorobutene	152	2322
1,1,1-Trichloroethane	160	2831
Trichloroethylene	160	1710

Name of Material	Guide No.	ID No.
Trichloroisocyanuric acid, dry	140	2468
[illegible]	[illegible]	[illegible]
Tricresyl phosphate	151	2574
Triethylamine	132	1296
Triethylenetetramine	153	2259
Triethyl phosphite	130	2323
Trifluoroacetic acid	154	2699
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
1,1,1-Trifluoroethane	115	2035
Trifluoromethane	126	1984
Trifluoromethane, refrigerated liquid	120	3136
Trifluoromethane and Chlorotrifluoromethane azeotropic mixture with approximately 60% Chlorotrifluoromethane	126	2599
2-Trifluoromethylaniline	153	2942
3-Trifluoromethylaniline	153	2948
Triisobutylene	128	2324
Triisopropyl borate	129	2616
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Trimethylamine, anhydrous	118	1083
Trimethylamine, aqueous solution	132	1297
1,3,5-Trimethylbenzene	129	2325
Trimethyl borate	129	2416
[illegible]	[illegible]	[illegible]
Trimethylcyclohexylamine	153	2326
Trimethylhexamethylenediamines	153	2327
Trimethylhexamethylene diisocyanate	156	2328
Trimethyl phosphite	130	2329
Trinitrobenzene, wetted with not less than 10% water	113	3367
Trinitrobenzene, wetted with not less than 30% water	113	1354
Trinitrobenzoic acid, wetted with not less than 10% water	113	3368
Trinitrobenzoic acid, wetted with not less than 30% water	113	1355
Trinitrochlorobenzene, wetted with not less than 10% water	113	3365
Trinitrophenol, wetted with not less than 10% water	113	3364
Trinitrophenol, wetted with not less than 30% water	113	1344
Trinitrotoluene, wetted with not less than 10% water	113	3366
Trinitrotoluene, wetted with not less than 30% water	113	1356
Tripropylamine	132	2260
Tripropylene	128	2057
Tris-(1-aziridinyl)phosphine oxide, solution	152	2501
[illegible]	[illegible]	[illegible]
Turpentine	128	1299
Turpentine substitute	128	1300
Undecane	128	2330
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Urea hydrogen peroxide	140	1511
Urea nitrate, wetted with not less than 10% water	113	3370

Name of Material	Guide No.	ID No.
Urea nitrate, wetted with not less than 20% water	113	1357
Valeraldehyde	129	2058
Valeryl chloride	132	2502
Vanadium compound, n.o.s.	151	3285
Vanadium oxytrichloride	137	2443
Vanadium pentoxide	151	2862
Vanadium tetrachloride	137	2444
Vanadium trichloride	157	2475
Vanadyl sulfate	151	2931
Vanadyl sulphate	151	2931
Vehicle, flammable gas powered	115	3166
Vehicle, flammable liquid powered	128	3166
Vehicle, fuel cell, flammable gas powered	115	3166
Vehicle, fuel cell, flammable liquid powered	128	3166
Vinyl acetate, stabilized	129P	1301
Vinyl bromide, stabilized	116P	1085
Vinyl butyrate, stabilized	129P	2838
Vinyl chloride, stabilized	116P	1086
Vinyl chloroacetate	155	2589
Vinyl ethyl ether, stabilized	127P	1302
Vinyl fluoride, stabilized	116P	1860
Vinylidene chloride, stabilized	130P	1303
Vinyl isobutyl ether, stabilized	127P	1304
Vinyl methyl ether, stabilized	116P	1087
Vinylpyridines, stabilized	131P	3073
Vinyltoluenes, stabilized	130P	2618
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Water-reactive liquid, corrosive, n.o.s.	138	3129
Water-reactive liquid, n.o.s.	138	3148
Water-reactive liquid, poisonous, n.o.s.	139	3130
Water-reactive liquid, toxic, n.o.s.	139	3130
Water-reactive solid, corrosive, n.o.s.	138	3131
Water-reactive solid, flammable, n.o.s.	138	3132
Water-reactive solid, n.o.s.	138	2813
Water-reactive solid, oxidizing, n.o.s.	138	3133
Water-reactive solid, poisonous, n.o.s.	139	3134
Water-reactive solid, self-heating, n.o.s.	138	3135
Water-reactive solid, toxic, n.o.s.	139	3134
Wheelchair, electric, with batteries	154	3171
White asbestos	171	2590
White phosphorus, dry	136	1381
White phosphorus, in solution	136	1381
White phosphorus, molten	136	2447
White phosphorus, under water	136	1381
Wood preservatives, liquid	129	1306
Wool waste, wet	133	1387
Xanthates	135	3342
Xenon	121	2036
Xenon, compressed	121	2036
Xenon, refrigerated liquid (cryogenic liquid)	120	2591
Xylenes	130	1307
Xylenols	153	2261

Name of Material	Guide No.	ID No.
Xylenols, liquid	153	3430
Xylenols, solid	153	2261
Xylidines, liquid	153	1711
Xylidines, solid	153	1711
Xylidines, solid	153	3452
Xylyl bromide	152	1701
Xylyl bromide, liquid	152	1701
Xylyl bromide, solid	152	3417
Yellow phosphorus, dry	136	1381
Yellow phosphorus, in solution	136	1381
Yellow phosphorus, under water	136	1381
Zinc ammonium nitrite	140	1512
Zinc arsenate	151	1712
Zinc arsenate and Zinc arsenite mixture	151	1712
Zinc arsenite	151	1712
Zinc arsenite and Zinc arsenate mixture	151	1712
Zinc ashes	138	1435
Zinc bromate	140	2469
Zinc chlorate	140	1513
Zinc chloride, anhydrous	154	2331
Zinc chloride, solution	154	1840
Zinc cyanide	151	1713
[illegible]	[illegible]	[illegible]
Zinc dross	138	1435
Zinc dust	138	1436
Zinc fluorosilicate	151	2855
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
Zinc nitrate	140	1514
Zinc permanganate	140	1515
Zinc peroxide	143	1516
Zinc phosphide	139	1714
Zinc powder	138	1436
Zinc residue	138	1435
Zinc resinate	133	2714
Zinc silicofluoride	151	2855
Zinc skimmings	138	1435
Zirconium, dry, coiled wire, finished metal sheets or strip	170	2858
Zirconium, dry, finished sheets, strips or coiled wire	135	2009
Zirconium hydride	138	1437
Zirconium nitrate	140	2728
Zirconium picramate, wetted with not less than 20% water	113	1517
Zirconium powder, dry	135	2008
Zirconium powder, wetted with not less than 25% water	170	1358
Zirconium scrap	135	1932
Zirconium suspended in a flammable liquid	170	1308
Zirconium suspended in a liquid (flammable)	170	1308
Zirconium tetrachloride	137	2503

GUIDES

GUIDE 111 — Mixed Load/Unidentified Cargo

POTENTIAL HAZARDS

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.

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

- 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.

EMERGENCY RESPONSE

FIRE

CAUTION: Material may react with extinguishing agent.

Small Fire

- Dry chemical, CO_2, water spray or regular foam.

Large Fire

- 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 Spill

- Pick up with sand or other non-combustible absorbent material and place into containers for later disposal.

Large Spill

- Dike far ahead of liquid spill for later disposal.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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.
- Shower and wash with soap and water.
- Keep victim calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

GUIDE 112 — Explosives* - Division 1.1, 1.2, 1.3 or 1.5

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, uphill and/or upstream.
- 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, ISOLATE for 1600 meters (1 mile) in all directions; also, initiate evacuation including emergency responders for 1600 meters (1 mile) in all directions.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

* For information on "Compatibility Group" Letters, refer to the Glossary section.

GUIDE 112 — Explosives* - Division 1.1, 1.2, 1.3 or 1.5

EMERGENCY RESPONSE

FIRE

CARGO Fire

- **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 Fire

- **Use plenty of water - FLOOD it! If water is not available, use CO_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 fire fires as re-ignition may occur. Stand by, at a safe distance, with extinguisher ready for possible re-ignition.

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

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 information on "Compatibility Group" letters, refer to the Glossary section.

GUIDE 113 — Flammable Solids - Toxic (Wet/Desensitized Explosive)

POTENTIAL HAZARDS

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, uphill and/or upstream.
- 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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 113 — Flammable Solids - Toxic (Wet/Desensitized Explosive)

EMERGENCY RESPONSE

FIRE

CARGO Fire

- **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 Fire

- **Use plenty of water - FLOOD it! If water is not available, use CO_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 fire fires as re-ignition may occur. Stand by, at a safe distance, with extinguisher ready for possible re-ignition.

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 Spill

- Flush area with flooding quantities of water.

Large Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.

GUIDE 114 — Explosives* - Division 1.4 or 1.6

POTENTIAL HAZARDS

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, uphill and/or upstream.
- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

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

GUIDE 114 — EXPLOSIVES* - DIVISION 1.4 OR 1.6

EMERGENCY RESPONSE

FIRE

CARGO Fire

- **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 Fire

- **Use plenty of water - FLOOD it! If water is not available, use CO_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, at a safe distance, with extinguisher ready for possible re-ignition.

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

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.

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, they 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.

GUIDE 115 — GASES - FLAMMABLE (INCLUDING REFRIGERATED LIQUIDS)

POTENTIAL HAZARDS

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.
- **CAUTION: Hydrogen (UN1049), Deuterium (UN1957), Hydrogen, refrigerated liquid (UN1966) and Methane (UN1971) are lighter than air and will rise. Hydrogen and Deuterium fires are difficult to detect since they burn with an invisible flame. Use an alternate method of detection (thermal camera, broom handle, etc.)**
- Vapors may travel to source of ignition and flash back.
- Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).

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

- 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.
- In fires involving Liquefied Petroleum Gases (LPG) (UN1075); Butane, (UN1011); Butylene, (UN1012); Isobutylene, (UN1055); Propylene, (UN1077); Isobutane, (UN1969); and Propane, (UN1978), also refer to BLEVE – SAFETY PRECAUTIONS (Page 368)

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 115 — GASES - FLAMMABLE (INCLUDING REFRIGERATED LIQUIDS)

EMERGENCY RESPONSE

FIRE

- **DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.**
- **CAUTION: Hydrogen (UN1049), Deuterium (UN1957) and Hydrogen, refrigerated liquid (UN1966) burn with an invisible flame. Hydrogen and Methane mixture, compressed (UN2034) may burn with an invisible flame.**

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.
- 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.**

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.

GUIDE 116 — GASES - FLAMMABLE (UNSTABLE)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- **EXTREMELY FLAMMABLE.**
- Will be easily ignited by heat, sparks or flames.
- Will form explosive mixtures with air.
- Silane (UN2203) 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.
- Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).

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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 116 Gases - Flammable (Unstable)

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.

GUIDE 117 Gases - Toxic - Flammable (Extreme Hazard)

POTENTIAL HAZARDS

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.
- Cylinders exposed to fire may vent and release toxic and flammable gas through pressure relief devices.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See Table 1 - Initial Isolation and Protective Action Distances.

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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 117 Gases - Toxic - Flammable (Extreme Hazard)

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical, CO_2, water spray or regular foam.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.
- Keep victim under observation.
- Effects of contact or inhalation may be delayed.

GUIDE 118 Gases - Flammable - Corrosive

POTENTIAL HAZARDS

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.
- Cylinders exposed to fire may vent and release flammable gas through pressure relief devices.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Large Spill

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

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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 118 — Gases - Flammable - Corrosive

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.
- Isolate area until gas has dispersed.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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 burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.
- Keep victim under observation.
- Effects of contact or inhalation may be delayed.

GUIDE 119 — Gases - Toxic - Flammable

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.
- Cylinders exposed to fire may vent and release toxic and flammable gas through pressure relief devices.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See [illegible] for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 119 — Gases - Toxic - Flammable

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical, CO_2, water spray or alcohol-resistant foam.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air. • Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.
- Keep victim under observation.
- Effects of contact or inhalation may be delayed.

GUIDE 120 — Gases - Inert (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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- 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

- 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.

GUIDE 120 — GASES - INERT (INCLUDING REFRIGERATED LIQUIDS)

EMERGENCY RESPONSE

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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 calm and warm.

GUIDE 121 — GASES - INERT

POTENTIAL HAZARDS

HEALTH

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

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- 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

- 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.

GUIDE 121 — GASES - INERT

EMERGENCY RESPONSE

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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Keep victim calm and warm.

GUIDE 122 — GASES - OXIDIZING (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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.
- 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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 122 — Gases - Oxidizing (Including Refrigerated Liquids)

EMERGENCY RESPONSE

FIRE

- Use extinguishing agent suitable for type of surrounding fire.

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 calm and warm.

GUIDE 123 — Gases - Toxic and/or Corrosive

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.
- Cylinders exposed to fire may vent and release toxic and/or corrosive gas through pressure relief devices.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 122 — Gases - Oxidizing (Including Refrigerated Liquids)

EMERGENCY RESPONSE

FIRE

- Use extinguishing agent suitable for type of surrounding fire.

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 calm and warm.

GUIDE 123 — Gases - Toxic and/or Corrosive

EMERGENCY RESPONSE

FIRE

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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 calm and warm.
- Keep victim under observation.
- Effects of contact or inhalation may be delayed.

GUIDE 124 — Gases - Toxic and/or Corrosive - Oxidizing

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.
- Cylinders exposed to fire may vent and release toxic and/or corrosive gas through pressure relief devices.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See Table 1 - Initial Isolation and Protective Action Distances.

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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 124 Gases - Toxic and/or Corrosive - Oxidizing

EMERGENCY RESPONSE

FIRE

Small Fire

CAUTION: These materials do not burn but will support combustion. Some will react violently with water.

- Contain fire and let burn. If fire must be fought, water spray or fog is recommended.
- **Water only; no dry chemical, CO_2 or Halon®.**
- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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 calm and warm.
- Keep victim under observation.
- Effects of contact or inhalation may be delayed.

GUIDE 125 Gases - Corrosive

POTENTIAL HAZARDS

HEALTH

- **TOXIC; may be fatal if inhaled, ingested or absorbed through skin.**
- 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.
- Cylinders exposed to fire may vent and release toxic and/or corrosive gas through pressure relief devices.
- Containers may explode when heated.
- Ruptured cylinders may rocket.
- For UN1005: Anhydrous ammonia, at high concentrations in confined spaces, presents a flammability risk if a source of ignition is introduced.

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 125 Gases - Corrosive

EMERGENCY RESPONSE

FIRE

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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.
- **In case of contact with Hydrogen fluoride, anhydrous (UN1052),** flush with large amounts of water. For skin contact, if calcium gluconate gel is available, rinse 5 minutes, then apply gel. Otherwise, continue rinsing until medical treatment is available. For eyes, flush with water or a saline solution for 15 minutes.
- Keep victim calm and warm.
- Keep victim under observation.
- Effects of contact or inhalation may be delayed.

GUIDE 126 Gases - Compressed or Liquefied (Including Refrigerant Gases)

POTENTIAL HAZARDS

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 100 meters (330 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 500 meters (1/3 mile).

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.

GUIDE 126 Gases - Compressed or Liquefied (Including Refrigerant Gases)

EMERGENCY RESPONSE

FIRE

- Use extinguishing agent suitable for type of surrounding fire.

Small Fire

- Dry chemical or CO_2.

Large Fire

- 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.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 calm and warm.

GUIDE 127 Flammable Liquids (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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- 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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 127 Flammable Liquids (Water-Miscible)

EMERGENCY RESPONSE

FIRE

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

CAUTION: For fire involving UN1170, UN1987 or UN3475, alcohol-resistant foam should be used.

Small Fire

- Dry chemical, CO_2, water spray or alcohol-resistant foam.

Large Fire

- 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 Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.

GUIDE 128 Flammable Liquids (Water-Immiscible)

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.
- Substance may be transported hot.
- For hybrid vehicles, GUIDE 147 (lithium ion batteries) or GUIDE 138 (sodium batteries) should also be consulted.
- **If molten aluminum is involved, refer to GUIDE 169.**

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- 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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 128 — Flammable Liquids (Water-Immiscible)

EMERGENCY RESPONSE

FIRE

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

CAUTION: For mixtures containing alcohol or polar solvent, alcohol-resistant foam may be more effective.

Small Fire

- Dry chemical, CO_2, water spray or regular foam.

Large Fire

- 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 Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.

GUIDE 129 — Flammable Liquids (Water-Miscible/Noxious)

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- 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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 129 — Flammable Liquids (Water-Miscible/Noxious)

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical, CO_2, water spray or alcohol-resistant foam.
- **Do not use dry chemical extinguishers to control fires involving nitromethane (UN1261) or nitroethane (UN2842).**

Large Fire

- 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 Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

GUIDE 130 — Flammable Liquids (Water-Immiscible/Noxious)

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- 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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 130 Flammable Liquids (Water-Immiscible/Noxious)

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical, CO_2, water spray or regular foam.

Large Fire

- 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 Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

GUIDE 131 Flammable Liquids - Toxic

POTENTIAL HAZARDS

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 131 Flammable Liquids - Toxic

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical, CO_2, water spray or alcohol-resistant foam.

Large Fire

- 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 Spill

- 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 Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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.
- In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

GUIDE 132 Flammable Liquids - Corrosive

POTENTIAL HAZARDS

FIRE OR EXPLOSION

- Flammable/combustible material.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

FLAMMABLE LIQUIDS - CORROSIVE GUIDE 132

EMERGENCY RESPONSE

FIRE

- **Some of these materials may react violently with water.**

Small Fire

- Dry chemical, CO_2, water spray or alcohol-resistant foam.

Large Fire

- 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 Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air. • Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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 burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin.
- Keep victim calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

GUIDE 133 FLAMMABLE SOLIDS

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 at a temperature that may be above its flash point.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.

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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

FLAMMABLE SOLIDS GUIDE 133

EMERGENCY RESPONSE

FIRE

Small Fire

- Dry chemical, CO_2, sand, earth, water spray or regular foam.

Large Fire

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

Fire Involving Metal Pigments or Pastes (e.g. "Aluminum Paste")

- Aluminum Paste fires should be treated as a combustible metal fire. Use DRY sand, graphite powder, dry sodium chloride-based extinguishers, G-1® or Met-L-X® powder. Also, see GUIDE 170.

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 Spill

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

Large Spill

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

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 calm and warm.

GUIDE 134 FLAMMABLE SOLIDS - TOXIC AND/OR CORROSIVE

POTENTIAL HAZARDS

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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions.
- Stay upwind, uphill and/or upstream.
- Keep unauthorized personnel away.
- Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Large Spill

- Consider initial downwind evacuation for at least 100 meters (330 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 134 — Flammable Solids - Toxic and/or Corrosive

EMERGENCY RESPONSE

FIRE

Small Fire
- Dry chemical, CO_2, water spray or alcohol-resistant foam.

Large Fire
- 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.

FIRST AID
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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 calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

GUIDE 135 — Substances - Spontaneously Combustible

POTENTIAL HAZARDS

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.
- Containers may explode when heated.

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.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Stay upwind, uphill and/or upstream.
- Keep unauthorized personnel away.

PROTECTIVE CLOTHING
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 135 — Substances - Spontaneously Combustible

EMERGENCY RESPONSE

FIRE
- **DO NOT USE WATER, CO_2 OR FOAM ON MATERIAL ITSELF.**
- Some of these materials may react violently with water.

EXCEPTION: For Xanthates, UN3342 and 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 Fire
- Dry chemical, soda ash, lime or DRY sand, **EXCEPT for UN1384, UN1923, UN1929 and UN3342.**

Large Fire
- DRY sand, dry chemical, soda ash or lime **EXCEPT for UN1384, UN1923, UN1929 and UN3342**, or withdraw from area and let fire burn.
- **CAUTION: UN3342** when flooded with water will continue to evolve flammable Carbon disulfide/Carbon disulphide vapors.
- 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 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.

Small Spill

EXCEPTION: For spills of Xanthates, UN3342 and for Dithionite (Hydrosulfite/Hydrosulphite), UN1384, UN1923 and UN1929, dissolve in 5 parts water and collect for proper disposal.
- **CAUTION: UN3342** when flooded with water will continue to evolve flammable Carbon disulfide/Carbon disulphide vapors.
- 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.

FIRST AID
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 calm and warm.

GUIDE 136 — Substances - Spontaneously Combustible - Toxic and/or Corrosive (Air-Reactive)

POTENTIAL HAZARDS

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.
- Corrosive substances in contact with metals may produce flammable hydrogen gas.
- Containers may explode when heated.

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.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Stay upwind, uphill and/or upstream.
- Keep unauthorized personnel away.

PROTECTIVE CLOTHING
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.
- **For Phosphorus (UN1381): Special aluminized protective clothing should be worn when direct contact with the substance is possible.**

EVACUATION

Spill
- Consider initial downwind evacuation for at least 300 meters (1000 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 136 — Substances - Spontaneously Combustible - Toxic and/or Corrosive (Air-Reactive)

EMERGENCY RESPONSE

FIRE

Small Fire
- Water spray, wet sand or wet earth.

Large Fire
- 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 Spill
- Cover with water, sand or earth. Shovel into metal container and keep material under water.

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

FIRST AID
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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 calm and warm.

GUIDE 137 — Substances - Water-Reactive - Corrosive

POTENTIAL HAZARDS

HEALTH
- CORROSIVE and/or 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 that 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
- **EXCEPT FOR ACETIC ANHYDRIDE (UN1715), THAT IS FLAMMABLE,** 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 and runoff.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate enclosed areas.

PROTECTIVE CLOTHING
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill
- See Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 137 — Substances - Water-Reactive - Corrosive

EMERGENCY RESPONSE

FIRE
- **When material is not involved in fire, do not use water on material itself.**

Small Fire
- Dry chemical or CO_2.
- Move containers from fire area if you can do it without risk.

Large Fire
- 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 Spill
- 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.

FIRST AID
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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 calm and warm.
- Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

GUIDE 138 — 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.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate the area before entry.

PROTECTIVE CLOTHING
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill
- See Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 138 — Substances - Water-Reactive (Emitting Flammable Gases)

EMERGENCY RESPONSE

FIRE

- **DO NOT USE WATER OR FOAM.**

Small Fire

- Dry chemical, soda ash, lime or sand.

Large Fire

- 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 Metals or Powders (Aluminum, Lithium, Magnesium, etc.)

- Use dry chemical, DRY sand, sodium chloride powder, graphite powder or Met-L-X® powder; in addition, for Lithium you may use Lith-X® powder or copper powder.
  Also, see GUIDE 170.

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 Spill

- 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 Spill

- 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.**

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give 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, wipe from skin immediately; flush skin or eyes with running water for at least 20 minutes.
- Keep victim calm and warm.

GUIDE 139 — Substances - Water-Reactive (Emitting 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.
- Containers may explode when heated.
- 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.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate the area before entry.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill

- See [illegible] for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

GUIDE 139 — Substances - Water-Reactive (Emitting Flammable And Toxic Gases)

EMERGENCY RESPONSE

FIRE

- **DO NOT USE WATER OR FOAM. (FOAM MAY BE USED FOR CHLOROSILANES, SEE BELOW)**

Small Fire

- Dry chemical, soda ash, lime or sand.

Large Fire

- DRY sand, dry chemical, soda ash or lime or withdraw from area and let fire burn.
- **FOR CHLOROSILANES, 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 that 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 vapors.

Small Spill

- 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 Spill

- 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.**

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- **Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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 calm and warm.

GUIDE 140 — Oxidizers

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.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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

- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

EMERGENCY RESPONSE

FIRE

Small Fire
- Use water. Do not use dry chemicals or foams. CO_2 or Halon® may provide limited control.

Large Fire
- 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.

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

Small Liquid Spill
- Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

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

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

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.**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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
- 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).

EMERGENCY RESPONSE

FIRE

Small Fire
- Use water. Do not use dry chemicals or foams. CO_2 or Halon® may provide limited control.

Large Fire
- 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.

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

Large Spill
- Dike far ahead of spill for later disposal.

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

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, 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.**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Ventilate closed spaces before entering.

PROTECTIVE CLOTHING
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that 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 where direct contact with the substance is possible.

EVACUATION

Spill
- See Table 1 - Initial Isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, 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.

In Canada, an Emergency Response Assistance Plan (ERAP) may be required for this product. Please consult the shipping document and/or the ERAP Program Section (page 391).