GUIDE ADSORBED GASES - TOXIC*

POTENTIAL HAZARDS

HEALTH

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

FIRE OR EXPLOSION

- Some gases may burn or be ignited by heat, sparks or flames.
- · May form explosive mixtures with air.
- Oxidizers may ignite combustibles (wood, paper, oil, clothing, etc.) but NOT readily due to low transportation pressures.
- · 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
- Runoff may create fire hazard.

PUBLIC SAFETY

- CALL 911. Then call emergency response telephone number on shipping paper. If shipping paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
- Keep unauthorized personnel away.
- Stay upwind, uphill and/or upstream.
- Many gases are heavier than air and will spread along the ground and collect in low or confined areas (sewers, basements, tanks, etc.).
- Ventilate closed spaces before entering, but only if properly trained and equipped.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer when there is NO RISK OF FIRE.
- Structural firefighters' protective clothing provides thermal protection but only limited chemical protection.

EVACUATION

Immediate precautionary measure

Isolate spill or leak area for at least 100 meters (330 feet) in all directions.

Spill

See Table 1 - Initial Isolation and Protective Action Distances

Fire

 If several small packages (inside a railcar or trailer) are 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 paper and/or the ERAP Program Section (page 390).

SOME SUBSTANCES MAY ALSO BE FLAMMABLE, CORROSIVE AND/OR OXIDIZING

Adsorbed Gases - Toxic* GUIDE

EMERGENCY RESPONSE

FIRE

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

Small Fire

- Dry chemical, CO₂, water spray or alcohol-resistant foam.
- For UN3515, UN3518, UN3520, use water only; no dry chemical, CO, or Halon®.

Large Fire

- · Water spray, fog or alcohol-resistant foam.
- · Do not get water inside containers.
- If it can be done safely, move undamaged containers away from the area around the fire.
- Damaged cylinders should be handled only by specialists.

Fire Involving Several Small Packages (inside a railcar or trailer)

- Fight fire from maximum distance or use unmanned master stream devices 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.
- · 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

- Some gases may be flammable. ELIMINATE all ignition sources (no smoking, flares, sparks or flames) from immediate area.
- For flammable gases, all equipment used when handling the product must be grounded.
- For oxidizing substances, 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.
- 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.
- · Isolate area until gas has dispersed.

FIRST AID

- Call 911 or emergency medical service.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- · Move victim to fresh air if it can be done safely.
- Give artificial respiration if victim is not breathing.
- Do not perform mouth-to-mouth resuscitation if victim ingested or inhaled the substance; wash
 face and mouth before giving artificial respiration. Use 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 eves 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.
- Keep victim under observation.
- · Effects of contact or inhalation may be delayed.

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TABLE 1 - INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

Part			TABLE 1 - INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES															
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3520 173 Chlorine, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (
3521 173 Silicon tetrafluoride, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 30 m (100																		
3522 173 Arsine, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 30 m (0.2 mi) 3523 173 Germane, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 30 m (0.2 mi) 3524 173 Phosphorus pentafluoride, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 m							, ,		. ,				<u> </u>					
3523 173 Germane, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 3.2 km (0.2 mi) 3.5 km (0.2 mi) 3.5 km (0.1 mi) 3.5 km (0.1 mi) 3.0 m (100 ft) 0.1			1															
3524 173 Phosphorus pentafluoride, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 3525 173 Phosphine, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi)																		
3525 173 Phosphine, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi)																		
							, ,		. ,		, ,		<u> </u>		· · ·			
3526 173 Hydrogen selenide, adsorbed 30 m (100 ft) 0.1 km (0.1 mi) 0.1 km (0.1 mi) 30 m (100 ft) 0.1 km (0.1 mi) 0.4 km (0.3 mi)							(0.1 mi)											
	3526	173	Hydrogen selenide, adsorbed	30 m	(100 ft)	0.1 km	(0.1 mi)	0.1 km	(0.1 mi)	30 m	(100 ft)	0.1 km	(0.1 mi)	0.4 km	(0.3 mi)			