POTENTIAL HAZARDS

HEALTH

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

FIRE OR EXPLOSION

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

PUBLIC SAFETY

- **CALL 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.

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 in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids.

Spill

- For highlighted materials: see Table 1 - Initial Isolation and Protective Action Distances.
- For non-highlighted materials: increase the immediate precautionary measure distance, in the downwind direction, as necessary.

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 paper and/or the ERAP Program Section (page 390).

EMERGENCY RESPONSE

FIRE

Small Fire

- Dry chemical, CO_2 or water spray.

Large Fire

- Water spray, fog or regular foam.
- If it can be done safely, move undamaged containers away from the area around the fire.
- Dike runoff from fire control for later disposal.
- Avoid aiming straight or solid streams directly onto the product.

Fire Involving Tanks or Car/Trailer Loads

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

SPILL OR LEAK

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

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 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.

TABLE 1 - INITIAL ISOLATION AND PROTECTIVE ACTION DISTANCES

			SMALL SPILLS (From a small package or small leak from a large package)						LARGE SPILLS (From a large package or from many small packages)					
			First ISOLATE in all Directions		Then PROTECT persons Downwind during				First ISOLATE in all Directions		Then PROTECT persons Downwind during			
ID No.	**Guide**	**NAME OF MATERIAL**	Meters	(Feet)	**DAY Kilometers (Miles)**		**NIGHT Kilometers (Miles)**		Meters	(Feet)	**DAY Kilometers (Miles)**		**NIGHT Kilometers (Miles)**	
— —	**151**	DA (when used as a weapon)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.8 km	(0.5 mi)	300 m	(1000 ft)	1.9 km	(1.2 mi)	7.5 km	(4.7 mi)
— —	**151**	ED (when used as a weapon)	150 m	(500 ft)	0.9 km	(0.6 mi)	2.1 km	(1.3 mi)	1000 m	(3000 ft)	5.9 km	(3.7 mi)	8.3 km	(5.2 mi)
1647	**151**	Ethylene dibromide and Methyl bromide mixture, liquid	30 m	(100 ft)	0.1 km	(0.1 mi)	0.1 km	(0.1 mi)	150 m	(500 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)
1647	**151**	Methyl bromide and Ethylene dibromide mixture, liquid	30 m	(100 ft)	0.1 km	(0.1 mi)	0.1 km	(0.1 mi)	150 m	(500 ft)	0.3 km	(0.2 mi)	0.8 km	(0.5 mi)
1672	**151**	Phenylcarbylamine chloride	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.1 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	0.7 km	(0.4 mi)
1892	**151**	Ethyldichloroarsine	150 m	(500 ft)	1.5 km	(0.9 mi)	2.1 km	(1.3 mi)	400 m	(1250 ft)	4.6 km	(2.9 mi)	6.4 km	(4.0 mi)
2644	**151**	Methyl iodide	30 m	(100 ft)	0.1 km	(0.1 mi)	0.2 km	(0.1 mi)	100 m	(300 ft)	0.3 km	(0.2 mi)	0.7 km	(0.4 mi)
2646	**151**	Hexachlorocyclopentadiene	30 m	(100 ft)	0.1 km	(0.1 mi)	0.1 km	(0.1 mi)	30 m	(100 ft)	0.3 km	(0.2 mi)	0.3 km	(0.2 mi)
3276	**151**	Nitriles, liquid, poisonous, n.o.s.	30 m	(100 ft)	0.3 km	(0.2 mi)	0.7 km	(0.5 mi)	150 m	(500 ft)	1.6 km	(1.0 mi)	2.7 km	(1.7 mi)
3276	**151**	Nitriles, liquid, toxic, n.o.s.	30 m	(100 ft)	0.3 km	(0.2 mi)	0.7 km	(0.5 mi)	150 m	(500 ft)	1.6 km	(1.0 mi)	2.7 km	(1.7 mi)
3276	**151**	Nitriles, poisonous, liquid, n.o.s.	30 m	(100 ft)	0.3 km	(0.2 mi)	0.7 km	(0.5 mi)	150 m	(500 ft)	1.6 km	(1.0 mi)	2.7 km	(1.7 mi)
3276	**151**	Nitriles, toxic, liquid, n.o.s.	30 m	(100 ft)	0.3 km	(0.2 mi)	0.7 km	(0.5 mi)	150 m	(500 ft)	1.6 km	(1.0 mi)	2.7 km	(1.7 mi)
3278	**151**	Organophosphorus compound, liquid, poisonous, n.o.s.	30 m	(100 ft)	0.4 km	(0.3 mi)	1.1 km	(0.7 mi)	200 m	(600 ft)	2.4 km	(1.5 mi)	4.1 km	(2.6 mi)
3278	**151**	Organophosphorus compound, liquid, toxic, n.o.s.	30 m	(100 ft)	0.4 km	(0.3 mi)	1.1 km	(0.7 mi)	200 m	(600 ft)	2.4 km	(1.5 mi)	4.1 km	(2.6 mi)
3278	**151**	Organophosphorus compound, poisonous, liquid, n.o.s.	30 m	(100 ft)	0.4 km	(0.3 mi)	1.1 km	(0.7 mi)	200 m	(600 ft)	2.4 km	(1.5 mi)	4.1 km	(2.6 mi)
3278	**151**	Organophosphorus compound, toxic, liquid, n.o.s.	30 m	(100 ft)	0.4 km	(0.3 mi)	1.1 km	(0.7 mi)	200 m	(600 ft)	2.4 km	(1.5 mi)	4.1 km	(2.6 mi)
3280	**151**	Organoarsenic compound, liquid, n.o.s.	30 m	(100 ft)	0.2 km	(0.1 mi)	0.7 km	(0.4 mi)	150 m	(500 ft)	1.6 km	(1.0 mi)	3.6 km	(2.2 mi)
3281	**151**	Metal carbonyls, liquid, n.o.s.	100 m	(300 ft)	1.3 km	(0.8 mi)	5.0 km	(3.1 mi)	1000 m	(3000 ft)	10.8 km	(6.8 mi)	11.0+ km	(7.0+ mi)
3381	**151**	Poisonous by inhalation liquid, n.o.s. (Inhalation Hazard Zone A)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.2 km	(0.8 mi)	200 m	(600 ft)	2.2 km	(1.4 mi)	4.2 km	(2.6 mi)
3381	**151**	Toxic by inhalation liquid, n.o.s. (Inhalation Hazard Zone A)	60 m	(200 ft)	0.6 km	(0.4 mi)	1.2 km	(0.8 mi)	200 m	(600 ft)	2.2 km	(1.4 mi)	4.2 km	(2.6 mi)
3382	**151**	Poisonous by inhalation liquid, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	0.7 km	(0.5 mi)
3382	**151**	Toxic by inhalation liquid, n.o.s. (Inhalation Hazard Zone B)	30 m	(100 ft)	0.2 km	(0.1 mi)	0.2 km	(0.2 mi)	60 m	(200 ft)	0.5 km	(0.3 mi)	0.7 km	(0.5 mi)