# GUIDE GASES - OXIDIZING 122 (INCLUDING REFRIGERATED LIQUIDS)

### **POTENTIAL HAZARDS**

### FIRE OR EXPLOSION

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

### HEALTH

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

### **PUBLIC SAFETY**

- CALL 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.
- Always wear thermal protective clothing when handling refrigerated/cryogenic liquids.

### **EVACUATION**

### Immediate precautionary measure

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

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

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### **EMERGENCY RESPONSE**

### FIRE

Use extinguishing agent suitable for type of surrounding fire.

### **Small Fire**

Dry chemical or CO<sub>2</sub>.

### Large Fire

- · Water spray, fog or regular foam.
- 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 Tanks

- 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; 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 master stream devices 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

- · 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.
- · 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.