



# CHLORINE

UN 1017

Shipping Name: Chlorine

Other Names: Liquid chlorine



- WARNING!**
- **POISON! BREATHING THE GAS CAN KILL YOU!**
  - Firefighting gear (including SCBA) provides **NO** protection. If exposure occurs, remove and isolate gear immediately and thoroughly decontaminate personnel
  - **STRONG OXIDIZER! WILL INCREASE THE INTENSITY OF A FIRE! MAY CAUSE FIRE UPON CONTACT WITH COMBUSTIBLES!**

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| <b>Hazards:</b> <ul style="list-style-type: none"><li>● Severely irritating to skin, eyes, nose and lungs; skin and eye contact causes severe burns and blindness</li><li>● Gas is heavier than air and will collect and stay in low areas</li><li>● Container may explode when exposed to fire</li><li>● Reacts with water to form toxic hypochlorous acid</li><li>● Contact with liquid may cause frostbite</li><li>● Corrosive to some rubbers and plastics</li></ul>  | <b>Description:</b> <ul style="list-style-type: none"><li>● Greenish-yellow gas</li><li>● Shipped as a pressurized liquefied gas</li><li>● Pungent bleach-like odor</li><li>● Reacts with water to form toxic hypochlorous acid and is slightly soluble in water</li><li>● Nonflammable but may cause combustibles to ignite</li><li>● Gas is heavier than air and will collect and stay in low areas</li></ul>   |
| <b>Awareness and Operational Level Training Response:</b> <ul style="list-style-type: none"><li>● <b>Do not put yourself in danger by entering a contaminated area to rescue a victim</b></li><li>● Stay upwind and uphill</li><li>● Determine the extent of the problem</li><li>● <b>BACK OFF!</b> - Isolate a wide area around the release or fire, deny entry and call for expert help</li><li>● For container exposed to fire, evacuate the area in all directions because of the risk of explosion</li><li>● Evacuate or shelter in place the immediate area and downwind for a large release</li><li>● Notify local health and fire officials and pollution control agencies</li><li>● If contaminated runoff enters waterways, notify downstream users of potentially contaminated water</li></ul> | <b>Operational Level Training Response:</b> <p><b>RELEASE, NO FIRE:</b></p> <ul style="list-style-type: none"><li>● Stop the release if it can be done safely from a distance</li><li>● Use large amounts of water well away from the release to disperse gas - contain runoff</li><li>● Ventilate confined area if it can be done without placing personnel at risk</li><li>● If in a building, evacuate building and confine vapors by closing doors and shutting down HVAC systems</li></ul> <p><b>FIRE:</b></p> <ul style="list-style-type: none"><li>● Material does not burn; fight surrounding fire with an agent appropriate for the burning material</li><li>● If material is not leaking, cool exposed containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely</li><li>● If cooling streams are ineffective (venting sound increases in volume and pitch, tank discolors or shows any signs of deforming), withdraw immediately to a secure location</li></ul> |

### First Aid:

- **Do not put yourself in danger by entering a contaminated area to rescue a victim**
- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
  - ◆ Inhalation - remove the victim to fresh air and give oxygen if available
  - ◆ Skin - remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
  - ◆ Eye - rinse eyes with large volumes of water or saline for 15 minutes
- Seek medical attention
- Frostbite - warm injured area in very warm water
- Toxic effects may be delayed
- For skin burns decontaminate with water and apply a clean dry dressing

CAS: 7782-50-5