

VAPOR DENSITY: 19.2

VAPOR PRESSURE: 16 mm Hg

SPECIFIC GRAVITY: 1.082 @ 60°F

FIRE AND EXPLOSION DATA

FIRE AND EXPLOSION HAZARD - The fire hazard for this product has not been determined. The hazard(s) of the component(s) with the most severe hazard(s) are:

Negligible fire hazard when exposed to heat or flame. Bleach decomposes when heated to high temperatures and containers may rupture.

This product contains an oxidizer. Oxidizers decompose, especially when heated, to yield oxygen or other gases which will increase the burning rate of combustible matter. Contact with easily oxidizable, organic, or other combustible materials may result in ignition, violent combustion or explosion.

FIRE FIGHTING MEDIA - Dry chemical, carbon dioxide, water spray or regular foam. For larger fires, use water spray, fog or regular foam.

FIRE FIGHTING - Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Extinguish using agents indicated; do not use water directly on material. If large amounts of combustible materials are involved, use water spray or fog in flooding amounts. Use water spray to absorb corrosive vapors. Cool containers with flooding amounts of water from as far a distance as possible. Avoid breathing corrosive vapors; keep upwind.

HEALTH HAZARD DATA

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

ACUTE HEALTH EFFECTS:

INHALATION: Inhalation of vapors may cause respiratory tract irritation.

SKIN CONTACT: Causes skin irritation.

EYE CONTACT: Causes eye irritation.

INGESTION: Harmful if swallowed.

CHRONIC HEALTH EFFECTS: None known.

MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE: Pre-existing skin conditions and respiratory illnesses (such as asthma).

EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

SKIN CONTACT: If contact with skin occurs, wash with plenty of soap and water.

EYE CONTACT: If contact with eyes occurs, flush with water for at least 15 minutes. Get prompt medical attention.

INGESTION: If swallowed, drink large quantities of water. Do not give vinegar or other acids. Do not induce vomiting. Get prompt medical attention.

REACTIVITY

REACTIVITY - Stable under normal temperatures and pressures.

INCOMPATIBILITIES: Mix only with water according to label directions. Mixing this product with other chemicals (such as toilet bowl cleaners, ammonia and acids) or organic matter may release fumes which are irritating to eyes, lungs and mucous membranes. Avoid prolonged contact with metal since corrosion or discoloration may occur. Do not use on chipped enamel.

DECOMPOSITION - Thermal decomposition may release toxic and/or hazardous gases, including chlorine dioxide and chlorine gas. Decomposition products may cause containers to rupture.

POLYMERIZATION - Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

STORAGE AND DISPOSAL

Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse empty container but place in trash collection. Do not contaminate food or feed by storage, disposal or cleaning of equipment. This product is toxic to fish. Do not discharge into lakes, streams, ponds or public waterways unless in accordance with a NPDES permit. Observe all federal, state and local regulations when storing or disposing of this substance.

CONDITIONS TO AVOID

Avoid contact with incompatible substances and excessive heat.

SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Do not touch spilled material. Stop leak if you can do it without risk. For small spills, take up with sand or other absorbent material and place into containers for later disposal. Move containers from spill area. For larger spills, dike far ahead of spill for later disposal. Stay upwind of spill. Keep unnecessary people away. Isolate hazard area and deny entry.

OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION - Provide local exhaust ventilation system to meet permissible exposure limits, if chlorine vapors are likely to occur.

RESPIRATOR - Air contamination monitoring should be carried out if chlorine vapors are likely to occur, to assure that the employees are not exposed to harmful concentrations above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS -

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING - Chemical-resistant, splash-proof, protective clothing is required where repeated or prolonged skin contact may occur.

GLOVES - Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Safety glasses are required to prevent eye contact where splashing of product may occur.

EMERGENCY WASH FACILITIES - Where there is any possibility that an employee's eyes and/or skin may be exposed to this substance, the employer should provide an eye wash fountain and quick drench shower within the immediate work area for emergency use.

REGULATORY INFORMATION

DOT/EPA HAZARD CLASS: Corrosive Material (DOT Classification).

SHIPPING NAME: See product name.

EPA - SARA TITLE III SECTION 313: Toxic Chemical - None.

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MSDS CREATION DATE: 01/12/90

SUPERSEDES: 07/22/96 Rev. 9

REVISION DATE: 02/12/98

REVISION: Updated Medical Emergency Number and address.