

IMPORTANT

MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL
OSHA requires that this form be kept on file.

Product No. C3700H

Product Name DICHLOROMETHANE

Product Name

24 HOUR EMERGENCY ASSISTANCE
CHEMTREC 800-424-9300
HAZARD RATING

| | | |
|------------|---------------|---|
| 4-EXTREME | Health Hazard | 3 |
| 3-SEVERE | Flammability | 1 |
| 2-MODERATE | Reactivity | 1 |
| 1-SLIGHT | | |
| 0-MINIMAL | | |

SECTION I NAME
Chemical Synonyms Methylene Chloride

Formula CH₂Cl₂

C.A.S. No. 75-09-2

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES
Principal Hazardous Component(s) % P.E.L. TLV Units

Methylene Chloride C.A.S. #75-09-2 99.5 20 ppm 20 ppm
Propylene Oxide C.A.S. #75-56-9 <5 3 ppm 3 ppm

SECTION III PHYSICAL DATA

| | | | |
|------------------------|--|---------------------------------------|-----------------|
| Melting Point (°F) | N/A | Specific Gravity (H ₂ O=1) | 1.32 @ 25/25°C |
| Boiling Point (°F) | 104°F | Percent Volatile by Volume (%) | 100% |
| Vapor Pressure (mm Hg) | 355 @ 20°C | Evaporation Rate (1) | No information. |
| Vapor Density (Air=1) | 2.93 | | |
| Solubility in Water | 2.0 g/100g of H ₂ O @ 25°C | | |
| Appearance & Odor | Colorless liquid, Penetrating Ether-like odor. | | |

SECTION IV FIRE AND EXPLOSION HAZARD DATA

| | | | | |
|---------------------------|----------------------|-------------------------------------|-----------|-----------|
| Flash Point (Method Used) | None (TOC, TCC, COC) | Flammable Limits in Air % by Volume | Lower 14% | Upper 22% |
| Extinguisher Media | Water fog. | | | |

Special Firefighting Procedures

Forms flammable vapor-air mixtures. Lower temperatures increase the difficulty of getting it to ignite. Wear positive pressure self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

No information.

D.O.T. Dichloromethane, 6, 1, UN1593, PGIII

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V

HEALTH HAZARD DATA

Threshold Limit Value
ACGIH TLV is 20 ppm; TWA is 50 ppm

Effects of Overexposure

Eyes: May cause pain, moderate eye irritation and slight corneal injury. Vapors may irritate eyes. Skin Contact: Prolonged or repeated exposure may cause skin irritation, even a burn. Repeated contact may cause drying or flaking of skin. Ingestion: Single dose oral toxicity is low. May be rapidly absorbed through the lungs and result in injury to other body systems. Inhalation: In confined or poorly ventilated areas, vapors can readily accumulate and can cause unconsciousness and death. Minimal anesthetic or narcotic effects may be seen in the range of 5000-10000 ppm methylene chloride. Excessive exposure may cause irritation to upper respiratory tract. Excessive exposure may cause carboxyhemoglobinemia, thereby impairing the blood's ability to transport oxygen. Cancer Information: For hazard communication purposes under OSHA Standard 19 CFR Part 1910.1200, methylene chloride and propylene oxide have been listed as potential carcinogens by IARC and NTP.

Emergency and First Aid Procedures

Eyes: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel. Skin: Wash off in flowing water or shower. Ingestion: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately. Inhalation: Remove to fresh air. If not breathing, give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Call a physician.

SECTION VI

REACTIVITY DATA

| | | |
|--|-----------------------------------|--|
| Stable <input checked="" type="checkbox"/> | Unstable <input type="checkbox"/> | Conditions to Avoid |
| Incompatibility (Materials to Avoid) | | Hydrolysis producing small amounts of hydrochloric acid possible with gross water contamination. |
| Hazardous Decomposition Products | | Amines, possibly sodium, potassium, and magnesium. |

| | |
|---|--|
| Hazardous Polymerization | Conditions to Avoid |
| May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/> | Open flames and welding arcs can cause thermal degradation with the evolution of hydrogen chloride and very small amounts of propene and chloroform. |

SECTION VII

SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled

Small spills: Mop up, wipe up or soak up immediately. Remove to out of doors. Large spills: Evacuate area. Contain liquid; transfer to closed metal containers. Keep out of water supply.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog size quantities only. Send to licensed reclaimers or to permitted incinerators. Do not dump into sewers, on the ground, or into any body of water.

SECTION VIII

SPECIAL PROTECTION INFORMATION

Respiration Protection
(Specify Type) NIOSH approved organic vapor cartridge mask.

| | | |
|-------------|----------------------|---------|
| Ventilation | Local Exhaust | Special |
| | Mechanical (General) | Other |
| | X | |

| | | |
|----------------------------|---|----------------|
| Protective Gloves | PVA or Viton | Eye Protection |
| Other Protective Equipment | Rubber apron, lab coat, eye wash station. | Safety Goggles |

SECTION IX

SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use. Avoid breathing vapors. Concentrated vapors of this product are heavier than air and will collect in low areas such as pits, degreasers, storage tanks, and other confined areas. Gloves or other protective equipment should be worn if skin contact is likely.

Other Precautions

None

Approved by Steven C. Cianciotti Effective Date 5/3/94 For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

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