

## Section 1 Chemical Product and Company Information

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**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory use only.  
Not for drug, food or household use.

**Product** DICHLOROMETHANE

**Synonyms** Methylene Chloride

## Section 2 Hazards Identification

**Signal word:** DANGER

**Pictograms:** GHS08

**Target organs:** Central nervous system, Liver, Kidneys.



**GHS Classification:**

Carcinogenicity (Category 2)

**GHS Label information: Hazard statement:**

H351: Suspected of causing cancer.

**Precautionary statement:**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313: IF exposed or concerned: Get medical attention.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Ca Prop 65: This chemical is known to the State of California to cause cancer or reproductive toxicity.

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Dichloromethane	75-09-2	>99%	200-838-9

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight. In contact with easily oxidizable materials, this chemical may react rapidly enough to cause ignition, violent combustion or explosion.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

## Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Dichloromethane	TWA: 50 ppm / 174 mg/m <sup>3</sup> (A3)	TWA: 25 ppm STEL: 125 ppm	Not established

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate ( Ethyl ether = 1):</b> Data not available	<b>Partition coefficient:</b> (n-octanol / water): Log Pow: 1.25
<b>Odor:</b> Sweet, ether-like odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> 13% / 22%	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 453 hPa (340 mm Hg)	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> -95°C (-139°F)	<b>Vapor density (Air = 1):</b> 1.33 g/cm <sup>3</sup>	<b>Molecular formula:</b> CH <sub>2</sub> Cl <sub>2</sub>
<b>Boiling point:</b> 40°C (104°F)	<b>Relative density (Specific gravity):</b> Data not available	<b>Molecular weight:</b> 84.93
<b>Flash point:</b> Data not available	<b>Solubility(ies):</b> 20 g/L H <sub>2</sub> O	

## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizers, caustics, chemically active metals such as aluminum, magnesium powders, potassium and sodium, concentrated nitric acid.

**Hazardous decomposition products:** Hydrogen chloride gas, traces of phosgene, carbon oxides, chlorine.

## Section 11 Toxicological Information

**Acute toxicity:** Oral-rat LD50: 1600 mg/kg ; Inhalation-rat LC50: 88 mg/L/4hours

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

NTP: Reasonably anticipated to be a human carcinogen.

IARC classified: Group 2B: Possibly carcinogenic to humans.

OSHA: This product contains a chemical known to cause cancer.

Ca Prop 65: This chemical is known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: Inhalation may cause dizziness, drowsiness, headache, nausea, weakness, unconsciousness and death.

Ingestion: Ingestion of large amounts can cause abdominal pain, and symptoms same as inhalation.

Skin: Contact causes dry skin, redness, and burning sensation.

Eyes: Contact causes pain and redness.

**Signs and symptoms of exposure:** Prevent generation of mists. Use strict hygiene. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: PA8050000

## Section 12 Ecological Information

**Toxicity to fish:** Lepomis macrochirus (fish, fresh water), LC50 = 220,000 µg/L/96 hours

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacea), EC50 = 1,959 mg/L/24 hours

**Toxicity to algae:** Anacystis aeruginosa (Algae), EC100 = 550 mg/L

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (US DOT / CANADA TDG)

**UN/NA number:** UN1593

**Shipping name:** Dichloromethane

**Hazard class:** 6.1

**Packing group:** III

**Reportable Quantity:** 1,000 lbs (454 kg)


**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 5 L

**2012 ERG Guide #** 160

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Dichloromethane	Listed	1,000 lbs (454 kg)	U080	Listed	Not listed	 D1B ; D2A ; D2B

## Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.