

MSDS # 470.00

Methylene Chloride



Section 1: Product and Company Identification

Methylene Chloride

Synonyms/General Names: Dichloromethane**Product Use:** For educational use only**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300**CANUTEC (Canada): 613-424-6666**

Scholar Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2: Hazards Identification

*Clear volatile liquid, penetrating ether-like odor.***HMIS (0 to 4)**

Health	2
Fire Hazard	1
Reactivity	0

WARNING! Moderately toxic by ingestion and inhalation hazard. Combustible liquid and possible carcinogen.

Target organs: Central nervous system, liver, kidneys.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 3: Composition / Information on Ingredients

Dichloromethane (75-09-2), >99%

Section 4: First Aid Measures

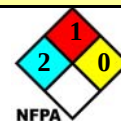
*Always seek professional medical attention after first aid measures are provided.***Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.**Ingestion:** Call Poison Control immediately. Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink. Induce vomiting immediately.**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.

Section 5: Fire Fighting Measures

Combustible liquid. When heated to decomposition, emits acrid fumes of hydrogen chloride and phosgene.

Protective equipment and precautions for firefighters: Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.



Section 6: Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7: Handling and Storage

Green**Handling:** Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling.**Storage:** Store in General Storage Area [Green Storage] with other items with no specific storage hazards. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials.

Section 8: Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Do not use respirators, ineffective protection. Mechanical ventilation is required and is the only effective method of protection from vapors. Exposure guidelines: Dichloromethane: OSHA PEL: 25 ppm; ACGIH: TLV: 174 mg/m³, STEL: 125 ppm.

Section 9: Physical and Chemical Properties

Molecular formula	CH ₂ Cl ₂ .	Appearance	Clear volatile liquid.
Molecular weight	84.93.	Odor	Penetrating ether-like odor.
Specific Gravity	1.33 g/mL @ 20°C.	Odor Threshold	N/A.
Vapor Density (air=1)	2.93 @ 20°C.	Solubility	Soluble in alcohol.
Melting Point	-97°C.	Evaporation rate	N/A. (Butyl acetate = 1).
Boiling Point/Range	40 °C.	Partition Coefficient	N/A. (log P _{OW}).
Vapor Pressure (20°C)	349 mm.	pH	N/A.
Flash Point:	N/A.	LEL	N/A.
Autoignition Temp.:	N/A.	UEL	N/A.

N/A = Not available or applicable

Section 10: Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use and storage.

Incompatibility: Oxidizing materials, aluminum, sodium, potassium, magnesium.

Shelf life: Indefinite if stored properly.

Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: **Eyes:** Redness, tearing, itching, burning, conjunctivitis. **Skin:** Redness, itching.

Ingestion: Irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain. **Inhalation:** Irritation of mucous membranes, coughing, wheezing, shortness of breath,

Chronic Effects: Carcinogen, IARC group 2B; NTP Reasonably Anticipated; ACGIH A3.

Sensitization: none expected

Dichloromethane: LD50 [oral, rat]; 1600 mg/kg; LC50 [rat]; 88,000 mg/m³/30min; LD50 Dermal [rabbit]; 810 mg/severe

Material has been found to be a carcinogen or produce genetic, reproductive, or developmental effects.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial): Ecological impact has not been determined.

Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Use a licensed chemical waste disposal firm for proper disposal.

Section 14: Transport Information

DOT Shipping Name:	Dichloromethane.	Canada TDG:	Dichloromethane.
DOT Hazard Class:	6.1, pg III.	Hazard Class:	6.1, pg III.
Identification Number:	UN1593.	UN Number:	UN1593.

Section 15: Regulatory Information

EINECS: Listed (200-838-9) .

TSCA: All components are listed or are exempt.

WHMIS Canada: D1B, D2A, D2B: Very Toxic material, carcinogen.

California Proposition 65: Listed – Cancer.

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: January 23, 2009

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