Material Safety Data Sheet

Dichloromethane

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Carolina Biological Supply Company
2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150

CAROLINA
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Section 1 - Product Description

Product Name: Dichloromethane
Product Code(s): 84-1117, 87-5970, C70446
Size: 500 mL
Chemical Name: Methylene Chloride
CAS Number: 75-09-2
Formula: CH2Cl2
Synonyms: Methylene Chloride, Methylene Dichloride, DCM, Chlorinated Hydrocarbon
Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) **Chemtrec** 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: May cause cancer. May be fatal if swallowed or inhaled.
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation to skin.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Dichloromethane (CAS# 75-09-2) 100%
TLV units: ACGIH-TLV 50 ppm (TWA)
PEL units: OSHA-PEL 25 ppm (TWA); 125 ppm (STEL)

Section 4 - First Aid Measures

Emergency and First Aid Procedures:
Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.
Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): N/A

NFPA Rating:
Health: 2
Fire: 1
Reactivity: 0
Extinguisher Media: Use dry chemical, CO2 or appropriate foam.
Flammable Limits in Air % by Volume: LEL 13% UEL 23%
Autoignition Temperature: N/A
Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Above flashpoint, explosive vapor-air mixtures may be formed.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep container tightly closed in a cool, well-ventilated place.
Retained residue may make empty containers hazardous.

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.
Ventilation:
Local Exhaust: Yes
Mechanical(General): Yes
Special: No
Other: No
Protective Gloves: Natural rubber, Neoprene, PVC or equivalent.
Eye Protection: Splash proof chemical safety goggles should be worn.
Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 84.93
Boiling Point: 39.8 °C
Vapor Density(Air=1): 2.93
Percent Volatile by Volume: 100%
Solubility in Water: Soluble
Melting Point: -95 °C
Vapor Pressure: 435 mmHg at 25 °C
Specific Gravity (H2O=1): 1.326
Evaporation Rate (BuAc=1): 27.5
Appearance and Odor: Clear, colorless liquid, Sweet odor.

Section 10 - Reactivity Data

Stability: Stable
Conditions to Avoid: Heat and sources of ignition.
Incompatibility (Materials to Avoid): Bases, Oxidizers, Alkalis, Metals,
Hazardous Decomposition Products: HCl, Halogenated compounds (Cl, F, Br), CaCl2 - phosgene gas,
Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

Toxicity Data: orl-hmn LDLo: 357 mg/kg; orl-rat LD50: 2136 mg/kg; ihl-hmn TCLo: 500 ppm/8H; ihl-mus LC50: 14400 ppm/7H
Effects of Overexposure:
Acute: See Section 2

Chronic: N/A
Conditions Aggravated by Overexposure: Liver disorders, Impaired Kidney Function, Central Nervous System disorders, Blood disorders
Target Organs: Cardiovascular system, Kidneys, Liver,
Primary Route(s) of Entry: Inhalation and ingestion.

Section 12 - Ecological Data

EPA Waste Numbers: U080

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1593, Dichloromethane, 6.1, III

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

Name List:
No

Chemical Category:
No

CERCLA Section 103 RQ(lb.): No
RCRA Section 261.33: No

Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists
CAS Number	Chemical Services Abstract Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DOT	U.S. Department of Transportation
IARC	International Agency of Research on Cancer
N/A	Not Available
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
ppm	Parts per million
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act