

Material Safety Data Sheet

Revision Issued: 3/08/2012 Supercedes: 7/10/2007 First Issued: 1/08/1993

Section I - Chemical Product And Company Identification

Product Name: Dichloromethane

CAS Number: 75-09-2

HBCC MSDS No. CM08000



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Section II - Composition/Information On Ingredients

		Exposure Limits (TWAs) in Air			
Chemical Name	CAS Number	%	ACGIH TLV	OSHA PEL	STEL
Dichloromethane	75-09-2	100	50 ppm	25 ppm	125 ppm

Section III - Hazard Identification

Routes of Exposure: Dichloromethane can affect the body if it is inhaled or swallowed, or if it comes in contact with the eyes or skin.

Summary of Acute Health Hazards

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation, Central nervous system effects including dizziness, weakness, fatigue, nausea, headache and possible unconsciousness, and even death.

Skin: Can cause irritation.

Eyes: Can cause irritation.

Summary of Chronic Health Hazards: Exposure to methylene chloride can raise the level of carbon monoxide in the blood causing cardiovascular stress.

Dichloromethane has been shown to cause cancer in laboratory animals. It has been listed as a possible carcinogen by IARC and NTP. There is adequate information to associate methylene chloride exposure during pregnancy with harm to the fetus.

Effects of Overexposure: Overexposure to this material (or its components) has apparently been found to cause the following effects in laboratory animals: Liver Abnormalities, Lung Damage, Kidney Damage. Narcotic in high concentrations.

Medical Conditions Generally Aggravated by Exposure: N/A

Section IV - First Aid Measures

Ingestion: DO NOT INDUCE VOMITING. Drink large amounts of water to dilute acid. GET PROMPT MEDICAL ATTENTION.

Inhalation: If inhaled, move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. GET PROMPT MEDICAL ATTENTION.

Skin: Promptly flush with plenty of water for at least 15 minutes. Remove contaminated clothing.

Eyes: Wash eyes immediately with large amounts of water, for at least 15 minutes, lifting the lower and upper lids. Contact lenses should not be worn when working with this material. GET PROMPT MEDICAL ATTENTION.

Section V - Fire Fighting Measures

Flash Point: N/A

Autoignition Temperature: 1033°F, 556°C

Lower Explosive Limit: 13.0%

Upper Explosive Limit: 23.0%

Flammability limits in air, lower,
% by volume: 15.5%

Flammability limits in air, upper,
% by volume: 66.4%

Unusual Fire and Explosion Hazards: This product is not flammable in air. Forms flammable vapor-air mixtures in larger volumes and may be an explosion hazard in a confined space. Combustion may produce irritants and toxic gases. Combustion byproducts may include hydrogen chloride and phosgene.

Extinguishing Media: Water Fog, Foam, Carbon Dioxide, or Dry Chemical. Use water spray to keep fire-exposed containers cool.

Special Firefighting Procedures: Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Section VI - Accidental Release Measures

Small Spill: Absorb liquid on paper, vermiculate, floor absorbent, or other absorbent material and transfer to hood.

Large Spill: Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Avoid discharge into drains, water courses or onto the ground.

Section VII - Handling and Storage

Keep away from incompatible substances. Store in a well-ventilated, properly drained area out of the sun. Avoid storage on wood floors or near wooden walls, etc. Diking of storage tanks if recommended. Protect from physical damage.

Other Precautions: Contaminated absorbent may be deposited in a landfill in accordance with local, state, and federal regulations.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: If workplace exposure limits(s) of product or any component is exceeded (see section IX), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your safety equipment supplier), engineering or administrative controls should be implemented to reduce exposure.

The OSHA acceptable ceiling concentration is 1000 ppm. The acceptable maximum peak above the acceptance ceiling concentration for a 2-hour shift is 200 ppm for a maximum duration of 5 minutes in any 2 hours. NIOSH recommends a limit of 75 ppm, 8-hour TWA; 500 ppm 15 minute ceiling.

Ventilation: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Protective Clothing: Wear resistant gloves such as: Polyvinyl Alcohol. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; However, OSHA regulations also permit other type safety glasses. (Consult your safety equipment supplier)

Section XV - Regulatory Information

WARNING

This product contains a chemical known to the State of California to cause cancer

CERCLA Reportable Quantity: 1000 Pounds (454 kilograms) (85 Gals.)

Electrical Equipment: Class I, Group D

Immediately Dangerous to Life and Health (IDLH): 2,300 ppm

RCRA Code: U080

NFPA Rating: Health - 2; Flammability - 1; Instability - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists: Yes **NTP:** Yes **IARC Monograph:** Yes **OSHA Regulated:** Yes

Section 313 Supplier Notification: This product contains the following toxic chemical(s) subject to the reporting requirements of SARA TITLE III Section 313 of the Emergency Planning and Community Right-To Know Act of 1986 and of 40 CFR 372:

<u>CAS #</u>	<u>Chemical Name</u>	<u>% By Weight</u>
75-09-2	Dichloromethane	100%

Section XVI - Other Information

Synonyms/Common Names: Methylene dichloride, methylene chloride

Chemical Family/Type: Chlorinated Hydrocarbon

Changes Made Since Last Revision: V, VI, VIII, IX, X, XI, XII

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.