

Section 1. Product and Company Identification

Product Name Methylene Chloride
CAS Number 75-09-2

Parchem - fine & specialty chemicals
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New Rochelle, NY 10801
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315

Eye irritation (Category 2A), H319

Carcinogenicity (Category 2), H351

Specific target organ toxicity - single exposure (Category 3), Respiratory system, Central nervous system, H335, H336

Specific target organ toxicity - repeated exposure, Oral (Category 2), Liver, Blood, H373

Specific target organ toxicity - repeated exposure, Inhalation (Category 2), Central nervous system, H373

GHS Label Elements

Pictograms:



Signal word: Warning

Hazard and precautionary statements

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H373 May cause damage to organs (Liver, Blood) through prolonged or repeated exposure if swallowed.



H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Precautionary statement(s)

P201 Obtain special instructions before use.

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

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P321 Specific treatment (see supplemental first aid instructions on this label).

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS III Hazard Ratings

Health: 2

Flammability: 1

Physical Hazard: 0

NFPA Hazard Ratings

Health: 2

Flammability: 1

Physical Hazard: 0

Note: HMIS III and NFPA 704 (2007) hazard indexes involve data review and interpretation that may vary among companies. They are intended only for rapid, general identification of the magnitude of the potential hazards. To adequately address safe handling, ALL information in this SDS must be considered.



Section 3. Composition / Information on Ingredients

Common Name Methylene Chloride
Synonym(s) Dichloromethane
CAS Number 75-09-2

COMPONENT	CAS NUMBER	CONCENTRATION
Dichloromethane	75-09-2	100%

Section 4. First Aid Measures

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. In case of irritation from airborne exposure, move to fresh air. Get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if symptoms occur. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes.

Ingestion: If swallowed, only induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Notes to Physician

Symptoms: Overexposure may sensitize the myocardium to epinephrine and/or increase myocardial irritability. If administration of epinephrine is necessary, electrocardiographic monitoring during and after administration is recommended.

Section 5. Firefighting Measures

Extinguishing Media: Water spray, Carbon dioxide (CO₂), Dry chemical, Foam. Use water spray to cool unopened containers.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products. USE WATER WITH CAUTION.

Hazardous Combustion Products: Carbon oxides, hydrogen chloride, Phosgene, (see also Hazardous Decomposition Products sections).

Unusual Fire and Explosion Hazards: No flashpoint in conventional closed cup tester but forms flammable vapor-air mixtures in larger volumes above 25°C (77°F). In use, may form flammable/explosive vapor-air mixture. Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations.

Section 6. Accidental Release Measures

Remove all sources of ignition. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination.



Section 7. Handling and Storage

Personal Precautions: Do not breathe mist or vapor at concentrations greater than the exposure limits. Keep container tightly closed. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling. If accidentally mixed with a strong oxidizer or acid, do not breathe gas.

Prevention of Fire and Explosion: Keep away from heat and sources of ignition. Keep from contact with oxidizing materials. Use only with adequate ventilation. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

Storage: Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatible substances (see Incompatibility section).

Section 8. Exposure Controls / Personal Protection

Occupational Exposure Controls: Dichloromethane

EK HPG: Time Weighted Average (TWA): 50 ppm

Short Term Exposure Limit (STEL): 200 ppm

ACGIH: Time Weighted Average (TWA): 50 ppm

OSHA: Time Weighted Average (TWA): 25 ppm

Action Level: 12.5 ppm; Remarks: See 29 CFR 1910.1052

Time Weighted Average (TWA): 25 ppm; 8 h

Short Term Exposure Limit (STEL): 125 ppm; 15 min

Short Term Exposure Limit (STEL): 125 ppm; Remarks: See 29 CFR 1910.1052

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Controls should be sufficient so that applicable occupational exposure limits are not exceeded.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, an approved respirator must be worn. A respirator should be worn if hazardous decomposition products are likely to be or have been released. Respirator type: full-face positive-pressure air-supplied. If respirators are used, a program should be instituted to assure compliance with applicable federal, state, commonwealth, provincial, or local laws and regulations.

Eye Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Wear impervious gloves and protective clothing appropriate for the risk of exposure.

Section 9. Physical and Chemical Properties

Appearance: Clear, colorless liquid.

Odor: Chloroform-like odor.

Solubility: 1.32 gm/100 gm water at 20°C.

Specific Gravity: 1.33 at 15°C/4°C

pH: No information found.

Volatiles by volume at 21°C (70°F): 100%

Boiling Point: 39.8°C (104°F)



Melting Point: -97°C (-143°F)
Vapor Density (Air=1): 2.9
Vapor Pressure (mm Hg): 350 at 20°C (68°F)
Evaporation Rate (BuAc=1): 27.5

Section 10. Stability and Reactivity

Stability: Stable under normal conditions.

No exotherm to boiling. 40°C by DTA

Incompatibility: Strong oxidizing agents, Metals, Aluminium, Amines, Strong bases, Ketones, Acids.

Hazardous Decomposition Products: Hydrogen chloride, Phosgene

Hazardous Polymerization: Hazardous polymerization does not occur.

Section 11. Toxicological Information

Effects of Exposure

General Advice: Possible cancer hazard. May cause cancer based on animal data. Can cause CNS effects. May cause liver damage based on animal data. May cause an increase in carboxyhemoglobin levels. Individuals with cardiovascular disease may be more susceptible to possible adverse effects from elevated carboxyhemoglobin levels.

Inhalation: Harmful if inhaled. High vapor concentrations may cause drowsiness and irritation. If phosgene is liberated at concentrations above recommended exposure limits due to contact with a strong oxidizer or acid, it may cause trace irritation, coughing, difficulty breathing, pulmonary edema, and death.

Eyes: Causes eye irritation. High vapor concentrations may cause irritation.

Skin: Harmful if absorbed through skin. Causes skin irritation.

Ingestion: Harmful if swallowed. May cause abdominal pain with vomiting, nausea, diarrhea, or dizziness.

Acute Toxicity Data

Oral LD50 (rat): 800 - 1600 mg/kg

Inhalation LC50 (rat): < 57 mg/L/6 hr

Skin Irritation: Severe

Skin Sensitization: Negative

Eye Irritation: Mild

Repeated Dose Toxicity

Inhalation (24 months, rat): NOEL; 500 ppm



Section 12. Ecological Information

Potential Toxicity

Toxicity to Fish (LC50): *Danio rerio* (zebra fish): 254 mg/L (Exposure time: 96 hr)

Toxicity to Fish (LC50): *Pimephales promelas* (fathead minnow): 140.8 mg/L

(Exposure time: 96 hr)

Toxicity to Daphnia (EC50): *Daphnia magna* (Water flea): 220 mg/L (Exposure time: 48hr) (No information available.)

Toxicity to daphnia (EC50): *Daphnia magna* (Water flea): 1,250 mg/L (Exposure time: 48 hr)

Toxicity to algae (EC50): *Pseudokirchneriella subcapitata* (green algae): > 662 mg/L (Exposure time: 96 hr) (No information available.)

Persistence and degradability: Inherently degradable

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

The information given below is provided to assist in documentation. It may supplement the information on the package. The package in your possession may carry a different version of the label depending on the date of manufacture. Depending on inner packaging quantities and packaging instructions, it may be subject to specific regulatory exceptions. Please consult the product packaging for further details.

IATA

UN Number: UN1593

Proper Shipping Name: Dichloromethane

Class: 6.1

Packaging Group: III

IMDG

UN Number: UN1593

Proper Shipping Name: Dichloromethane

Class: 6.1

Packaging Group: III

US DOT

UN Number: UN1593

Proper Shipping Name: Dichloromethane

Class: 6.1

Packaging Group: III

Reportable Quantity: Dichloromethane

Reportable Quantity: 1000 lb



Section 15. Regulatory Information

Notification Status

Regulatory List

TSCA: All listed

DSL: All listed

NDSL: None listed

EINECS: All listed

ELINCS: None listed

NLP: None listed

AICS: All listed

IECS: All listed

ENCS: All listed

ECI: All listed

NZIoC: All listed

PICCS: All listed

Other Regulations

American Conference of Governmental Industrial Hygienists (ACGIH): A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans: Dichloromethane

International Agency for Research on Cancer (IARC): Group 2A- Probably Carcinogenic to Humans: Dichloromethane

Group 2B - Possibly Carcinogenic to Humans: Dichloromethane

U.S. National Toxicology Program (NTP): Reasonably Anticipated To Be A Human Carcinogen: Dichloromethane

U.S. Occupational Safety and Health Administration (OSHA): OSHA Carcinogen or Potential Carcinogen: Dichloromethane

California Prop. 65: WARNING! This product contains a chemical known in the State of California to cause cancer.

U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances): Dichloromethane

U.S. - CERCLA/SARA- Section 302 (40 CFR § 355 Appendices A and B -The List of Extremely Hazardous Substances and Their Threshold Planning Quantities): No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.

U.S. - CERCLA/SARA- Section 313 (40 CFR § 372.65 Toxic Chemical Release Reporting): Dichloromethane

U.S. - California- 8 CCR Section 339- Director's List of Hazardous Substances: Dichloromethane

U.S. - California- 8 CCR Section 5200-5220- Specifically Regulated Carcinogens: Dichloromethane

U.S. - California- 8 CCR Section 5203 Carcinogens: Dichloromethane

U.S. - California - 8 CCR Section 5209 Carcinogens: No components found on the California Section 5209 Carcinogens List



U.S. -Massachusetts- General Law Chapter 111 F (MGL c 111 F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law): Dichloromethane

U.S. - Minnesota Employee Right-to-Know (5206.0400, Subpart 5. List of Hazardous Substances): Dichloromethane

U.S. - New Jersey -Worker and Community Right to Know Act (N.J.SA 34:5A-1):
Dichloromethane

U.S. - Pennsylvania- Part XIII. Worker and Community Right-to-Know Act (Chapter 323 Hazardous Substance List, Appendix A): Dichloromethane

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 6/3/2015

