



SAFETY DATA SHEET (SDS)

Dichloromethane

01. Product and Company Identification

Product Identifier:	
Trade Name:	Dichloromethane
Chemical Name:	Dichloromethane, Methylene chloride, Methylene dichloride
Catalog Number:	35066004, 35066012
Part of Kits:	35061011
Use of chemical:	Laboratory chemical
Identification of Manufacturer:	
Manufacturer/Supplier:	Biochemical Diagnostics, Inc. 180 Heartland Blvd., Edgewood, NY 11717 Phone: (631) 595-9200 Fax: (631) 595-9204
Emergency telephone number:	(800) 255-3924

02. Hazard(s) Identification

Classification of substance or mixture:	
Acute toxicity, Oral (Category 5), Acute toxicity, Dermal (Category 5) <i>May be harmful if swallowed or in contact with skin</i>	
Skin irritation (Category 2), Eye Irritation (Category 2A) <i>Causes skin irritation. Causes serious eye irritation.</i>	
Specific target organ toxicity-single exposure (Category 3), Respiratory system, CNS	
Specific target organ toxicity-repeated exposure, Oral (Category 2), Liver, Blood	
Specific target organ toxicity-repeated exposure, Inhalation (Category 2), CNS <i>May cause respiratory irritation, drowsiness, or dizziness. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.</i>	
Label elements:	
Hazard pictograms	 
	Health hazard Irritant
Signal word: Warning	
Hazard statements:	
H303 + H313 May be harmful if swallowed or in contact with skin.	
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 statements:	
P233 Keep container tightly closed.	
P261 Avoid breathing dust/fume/gas/mist/vapors/spray	
P264 Wash skin thoroughly after handling.	
P271 Use in a well-ventilated area or outdoors.	
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection	
P304+340 IF INHALED Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	



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Classification system:

NFPA ratings (scale 0 - 4)



Health = 2
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2
Fire = 0
Reactivity = 0

03. Composition/information on ingredients

Chemical Characterization: Solvent

CAS No. Description : 75-09-2

Formula : CH₂Cl₂

04. First aid measures

Description of first aid measures:

Inhalation: Remove to fresh air. A central nervous system depressant. Causes irritation of respiratory tract. Consult a physician.

Ingestion: Rinse mouth with water. Seek medical attention.

Skin Contact: Wash immediately with soap and water. Remove contaminated clothing. Suspected cancer hazard. Risk of cancer depends on duration and level of exposure. Consult a physician.

Eye Contact: Rinse with thoroughly with plenty of water for at least 15 minutes. Seek medical attention.

05. Firefighting measures



Extinguishing media: Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

Special Fire Fighting Procedures: Wear proper protective equipment w/Self contained breathing apparatus.

Unusual Fire and Explosion Hazards: Hazardous decomposition products formed under fire conditions – Carbon oxides, Hydrogen chloride gas.

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06. Accidental release measures
<p>Personal precautions, protective equipment and emergency procedures: Wear protective equipment. Avoid breathing vapors, mist or gas. Keep unprotected persons away. Ensure adequate ventilation.</p>
<p>Environmental precautions: Prevent further leakage if safe to do. Do not allow to enter sewers/surface or ground water.</p>
<p>Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) and remove.</p>
<p>Waste Disposal Method: Dispose in accordance with state, local and federal regulations</p>
07. Handling and storage
<p>Handling: Precautions for safe handling: No special precautions are necessary if used correctly.</p>
<p>Conditions for safe storage, including any incompatibilities: Requirements to be met by storerooms and receptacles: Store in a cool location.</p>
<p>Further information about storage conditions: Keep receptacle tightly sealed. Store in well-ventilated, cool, dry conditions in well-sealed receptacles. Keep container upright to prevent leakage.</p>
08. Exposure controls/ personal protection
<p>Exposure Controls: Control parameters: Components with limit values that require monitoring at the workplace: 75-09-2 Dichloromethane PEL Long-term value: 25 ppm TWA REL Long-term value: Lowest feasible concentration (likely to be carcinogenic) TLV Short-term value: 174 mg/m³, 50 ppm</p>
<p>Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.</p>
<p>Eye Protection:  Tightly sealed safety glasses or face shield.</p>
<p>Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact</p> <p>Protection of Hands:  Protective gloves</p> <p>The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Dispose of gloves after use.</p>
<p>Respiratory Protection: If the exposure limit is exceeded use NIOSH approved and tested full-face respirator that is independent of circulating air.</p>
<p>Ventilation: Keep vapor levels as low as possible, use adequate general or local exhaust.</p>

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09. Physical and chemical properties
Appearance: Form: Liquid Color: Colorless
Odor: Chloroform-like odor
pH: no data available
Melting Point: 97°C (207°F) Boiling Point: 39.8-40°C/ 103.6-104°F
Flash Point: -4°C (25 °F) s
Ignition temperature: 556.1 °C (1,033.0 °F)
Explosion limits: Lower: 12 Vol % Upper: 19 Vol %
Vapor Pressure @ 24°C: 400 mm Hg
Specific Gravity @ 20°C (68°F): 1.325 g/cm ³ Vapor Density: 2.93, Air=1
Percent Volatile: not available
Evaporation Rate: 0.71
Flammable Limits in air % by volume: Lel: 12 % Uel: 23 %
Solubility in/ Miscibility with Water@20°C: 13.2 g/L

10. Stability and reactivity
Stability: Stable
Incompatibility: Avoid nitrates, aluminum or magnesium, strong oxidizers, amines, alkali metals, strong bases, or strong acids. Vinyl compounds, rubber, water, heat.
Conditions to Avoid: Heat, sparks, open flame. Exposure to sunlight.
Hazardous Polymerization: Will not occur
Hazardous Decomposition: Carbon oxides and Hydrogen chloride gas may form under fire conditions. Emits highly toxic fumes of phosgene (COCl ₂) when heated to decomposition.

11. Toxicological information
Acute toxicity: LD/LC50 values that are relevant for classification: Oral LD50 >2,000 mg/kg (rat) Inhalation LC50 52,000 mg/l (rat) Dermal LD50 >2,000 mg/kg (rabbit)
Potential health effects: On the skin: Irritating to skin. May be harmful if absorbed through skin. On the eye: Causes eye irritation. Inhalation/: May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness and dizziness. Ingestion: May be harmful if swallowed. Carcinogenicity: Inhalation (rat). Tumorigenic: Carcinogenic by RTECS criteria, Endocrine: Tumors. Limited evidence of carcinogenicity in animal studies.

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12. Ecological information

Toxicity: Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96 h

NOEC - Cyprinodon variegatus (sheepshead minnow) - 130 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 1,682.00 mg/l - 48 h

Persistence and degradability: Result: < 26 % - Not readily biodegradable.

Bioaccumulative potential: Does not bioaccumulate.

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Waste treatment methods

Product:

Dispose of in accordance with local, state and federal regulations.

Contaminated packaging:

Disposal must be made according to official regulations.

14. Transport Information

UN Number:

1593

UN proper shipping name:

Dichloromethane

Transport hazard class(es):

6.1

Packing group:

III

Environmental hazards:

Harmful to aquatic life

Special precautions

None

15. Regulatory Information

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

The following components are subject to reporting levels established by SARA Title III, Section 313:

Methylene chloride CAS-No. 75-09-2 Revision Date 2007-07-01

SARA 311/312 Hazards:

Acute Health Hazard, Chronic Health Hazard



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16. Other Information

Revision B, June 2015

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