

## Methylene Chloride Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Methylene Chloride

Signal Word  
**WARNING**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-10015

Pictograms

#### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 4). Harmful if swallowed (H302). Do not eat, drink or smoke when using this product (P270).



Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).



Hazard class: Carcinogenicity (Category 2). Suspected of causing cancer (H351). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281). Possible human carcinogen (IARC-2B).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Methylene chloride	75-09-2	CH <sub>2</sub> Cl <sub>2</sub>	84.94	
Synonyms: Dichloromethane				

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so.

Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313).

**If on skin:** Rinse cautiously with water for several minutes (P351).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell (P301+P330+P312).

### SECTION 5 — FIRE FIGHTING MEASURES

Combustible liquid. No conventional flash point but does mix with air to become flammable.

NFPA Code

Flammable limits: Lower: 14% Upper: 22% Autoignition Temperature: 556 °C

H-2

When heated to decomposition, may emit toxic fumes.

F-1

In case of fire: Use a tri-class dry chemical fire extinguisher.

R-0

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**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

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Remove all sources of ignition. Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Organic #4. Store with ethers, ketones, and halogenated hydrocarbons. Keep tightly capped. Store in a cool, dry place. Use only in a hood or well-ventilated area (P271).

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: PEL 25 ppm (OSHA); TLV 50 ppm (ACGIH)

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Colorless, volatile liquid. Penetrating odor like ether.	Boiling point: 39-40 °C
Soluble: Alcohol and ether. Slightly in water.	Melting point: -97 °C
	Specific gravity: 1.335
	Vapor density: 2.9
	Vapor pressure: 340 mm

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with alkali metals, aluminum, and heat.

Shelf life: Poor, volatile liquid. Keep tightly capped.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, irritant, nausea, dizziness, and headache	ORL-RAT LD <sub>50</sub> : 1600 mg/kg
Chronic effects: Possible carcinogen, neurological hazard, possible mutagen	IHL-RAT LC <sub>50</sub> : 88000 mg/m <sup>3</sup> /30M
Target organs: Liver, pancreas, nerves	SKN-RBT LD <sub>50</sub> : 1280 mg/kg

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**SECTION 12 — ECOLOGICAL INFORMATION**

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Data not yet available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #27j is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Dichloromethane. Hazard class: 6.1, Keep away from food. UN number: UN1593.

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**SECTION 15 — REGULATORY INFORMATION**

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TSCA-listed, EINECS-listed (200-838-9), RCRA code U080.

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**SECTION 16 — OTHER INFORMATION**

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STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

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