

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 527.00

Revision Date: December 31, 2013

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Methylene Chloride

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **WARNING**

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 ₂ Cl ₂	84.94	
Synonym: 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:** 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.

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

When heated to decomposition, may emit toxic fumes.

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

NFPA CODE

H-2

F-1

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 — HANDLING AND STORAGE

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

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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

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

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Colorless, volatile liquid. Penetrating odor like ether.

Soluble: Alcohol and ether. Slightly in water.

Boiling point: 39-40 °C

Melting point: -97 °C

Specific gravity: 1.335

Vapor density: 2.9

Vapor pressure: 340 mm

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with alkali metals, aluminum, and heat.

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

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant, nausea, dizziness, and headache

Chronic effects: Possible carcinogen, neurological hazard, possible mutagen

Target organs: Liver, pancreas, nerves

ORL-RAT LD₅₀: 1600 mg/kg

IHL-RAT LC₅₀: 88000 mg/m³/30M

SKN-RBT LD₅₀: 1280 mg/kg

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

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

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

Flinn Suggested Disposal Method #27j is one option.

SECTION 14 — TRANSPORT INFORMATION

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

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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