



Methylene Chloride

Trade Name	:	Methylene Chloride
Manufacturer	:	Formosa
		Taipei Office
		No. 201, Tung Hwa North Road, Taipei City
Supplier	:	SP PETROCHEMICAL SOLUTION CO.,LTD. 440/4-6 Prachacheun Rd. Bangsue Bangkok 10800 Thailand Telephone: +66 2 913 7999 (Auto 20 Lines) Fax: +66 2 586 0990-4
Website	:	www.srithanaperfect.com
E-mail	:	info@srithanaperfect.com

Emergency Overview	:	A clear colorless liquid with ethereal odor. Highly toxic and cancer suspect agent. Causes irritation to eye and skin. May cause headache, nausea, unconsciousness and possible death.		
Potential health Effects	:	Inhalation: May result in irritation of the respiratory tract or anesthetic death. External: Cause painful irritation and possible burns. Ingestion: Possible esophageal burns and vomits.		
NFPA Hazard Codes	:	Health: 2	Flammability: 0	Reactivity: 1
WHMIS Classification	:	D2		
EC Classification	:	Carcinogen Category 3		
GHS SYMBOL	:	Skin Corrosion/Irritation Category 2		



440/4-6 Prachachuen Rd., Bangsue, Bangkok 10800, Thailand
Tel: 66 2 913 7999 (HEAD OFFICE), 66 2 192 1777 FAX. 66 2 586 0994 , 66 2 192 1661
info@srithanaperfect.com



3. COMPOSITION, INFORMATION ON INGREDIENTS

Component	:	Methylene Chloride
Synonyms	:	Dichloromethane; Methylene Dichloride; Methylene Bichloride; Methane Dichloride
PRODUCT USE	:	paint remover formulations, vapor depressant in aerosol applications, general cleaning solvent, foam blowing agent
CAS Number	:	75-09-2
Purity	:	>99.8%

4. FIRST AID MEASURES

Inhalation	:	Remove the exposed person to fresh air, restore and support breathing as needed. Get medical help.
Skin Contact	:	Remove contaminated clothing and rinse the affected area with plenty of water. Get medical attention immediately.
Eye Contact	:	Flush with flooding amount of water for at least 15 min. Do not keep eyes tightly shut. Consult a physician immediately.
Ingestion	:	Do not induce vomiting. Have person drink 240~300 ml of water to dilute. Call a physician immediately.
Notes to Physician	:	Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Fire Properties	:	Autoignition Temperature : 556°C (1033°F)
Flash Point	:	Not available
Extinguishing Media	:	Dry Chemical, CO2, Foam, Water Fog
Fire Fighting Instructions	:	Use water spray to cool fire-exposed containers and to flush spills away from exposures. Firemen should wear self-contained breathing apparatus.



6. ACCIDENTAL RELEASE MEASURES

Spill or Leak : Evacuate unnecessary personnel, eliminate all ignition sources immediately, and provide adequate ventilation. Cleanup personnel need wear suitable protective equipment. Contain large spills and collect waste with an inert material. Keep waste out of sewers, watersheds, and waterways.

7. HANDLING AND STORAGE

Handling : Avoid contact with eyes, skin, and clothing. Always wash thoroughly after using this material and before eating and drinking. Do not eat, drink, or smoke in any work place.

Storage : Store in closed, moisture-proof containers in a cool, dry, well-ventilated area away from source of ignition, and incompatible chemicals. Protect containers from physical damage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls : Provide local dilution exhaust ventilation systems.

Personal Protective Equipment :
1. Use chemical safety goggles.
2. Wear a self-contained breathing apparatus with a full face-piece operated in the pressure-demand or positive-pressure mode.
3. Wear impervious boots, gloves, and clothing.

Exposure Guidelines :
TWA (ACGIH) : 50 ppm (3,540 mg/m³)
TWA (OSHA) : 25 ppm
STEL (OSHA) : 125 ppm



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Liquid
Appearance	:	Clear, colorless
pH	:	Neutral
Decomposition Point	:	
Autoignition	:	556°C
Temperature		
Vapor Pressure	:	400 mmHg @ 24°C
Liquid Density	:	1.3266 g/ml (H2O = 1)
Physical Form	:	Liquid
Odor	:	Ethereal odor
Boiling Point	:	39.8°C
Flash Point	:	None (Test Method: TCC)
Explosion Limit	:	LEL: 12%, UEL: 19%
Vapor Density	:	2.93 (AIR = 1)
Solubility in Water	:	1.32g/100ml @ 20°C

10. STABILITY AND REACTIVITY

Stability	:	Stable
Conditions to Avoid	:	Avoid all exposure to sources of ignition, heat, and incompatible chemicals.
Incompatibilities	:	Avoid contact with strong oxidizers, caustics, active metals (powdered aluminum, magnesium, sodium, lithium, potassium), flame, and spark.
Hazardous Decomposition	:	Combustion can produce chlorine, phosgene gas, and hydrogen chloride.



11. TOXICOLOGICAL INFORMATION

Acute Toxicity	:	Moderately Toxic : inhalation, ingestion LC50 = 14400 ppm/7H (Inhalation, mouse) LC50 = 88 gm/m ³ /30M (Inhalation, rat) LD50 = 1600mg/kg (Oral, rat)
Local Effect	:	Irritant : inhalation, skin, eye
Sensitization	:	
Chronic Toxicity	:	Can cause damage to liver and kidneys. Suspected carcinogen based on 2-yr. bioassay in rats that showed liver tumors.
Special Effect : Carcinogenicity		ACGIH : A3 – Animal carcinogen NIOSH : Occupational carcinogen NTP : Suspect carcinogen OSHA : Possible select carcinogen IARC : Group 2B carcinogen

12. ECOLOGICAL INFORMATION

Effects on Environment	:	Harmful to aquatic life. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals, and it is expected to have a half-life of greater than 30 days.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal	:	Dispose in accordance with all applicable regulations.
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14. TRANSPORT INFORMATION

DOT/IMO/ICAO/IMDG Name : Dichloromethane
DOT/IMO/ICAO/IMDG Hazard Class : 6.1
UN Number : 1593
DOT Label : Poison Substance
DOT/IMO/ICAO/IMDG Packing Group : III

15. REGULATORY INFORMATION

U.S. Regulations : TSCA Inventory Status : Y
CERCLA Section 103 : Y
SARA Section 313 : Y
SARA Section 311/312 : Y
Acute : Y
Chronic : Y
Fire : N
Reactivity : N
Sudden Release : N
OSHA Process Safety : N

European Regulation : EC Number (EINECS): 200-838-9

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

MSDS Distribution : The information in this document should be made available to all who may handle the product.

Disclaimer :

The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.