



Carolina International Sales Co., Inc

MATERIAL SAFETY DATA SHEET

2522 Plantation Center Drive
Matthews, NC 28105
(704) 845 9440

www.ciscochem.com

1. PRODUCT NAME: Methylene Chloride
2. CHEMICAL NAME: Dichloromethane
3. SYNONYMS:
4. CAS NUMBER: 75-09-2
5. COMPOSITION: Dichloromethane (75-09-2) - 100%

**IN CASE OF
TRANSPORT EMERGENCY
CONTACT CHEMTREC
USA: 1-800-424-9300
INTERNATIONAL: 1-703-527-3887**

6. PROPERTIES: ODOR & APPEARANCE: clear, colorless, liquid mild pleasant odor
ODOR THRESHOLD: 150ppm – recognition, but may be detected at lower conc. Without recognition
Warning: odor threshold is well over the TWAEV – detectable only well above toxic limit!
VAPOUR PRESSURE: 350mmHg/46.6kPa (20 c)
EVAPORATION RATE (butyl Acetate=1): 27.5
VAPOR DENSITY (air=1): 2.9
BOILING RANGE: 40 c
FREEZING POINT: -97c
SPECIFIC GRAVITY: 1.329 (20/20 c)
WATER SOLUBILITY: 20 grams per litre
IN OTHER SOLVENTS: soluble in most organic solvents
VISCOSITY: 0.43 centipoise (20 c)
PH: none – does not yield hydrogen ions in solution

7. HAZARDS: WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. AFFECTS CENTRAL NERVOUS SYSTEM, LIVER, CARDIOVASCULAR SYSTEM, AND BLOOD. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. SUSPECT CANCER HAZARD. MAY CAUSE CANCER. Risk of cancer depends on level and duration of exposure.
Health Rating: 3 - Severe (Cancer Causing)
Flammability Rating: 1 - Slight
Reactivity Rating: 2 - Moderate
Contact Rating: 3 - Severe
Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES
Storage Color Code: Blue (Health)

8. FIRE FIGHTING INFORMATION: FLASH POINT: will not flash
AUTOIGNITION TEMPERATURE: 556 c
FLAMMABLE LIMITS: 12% - 19% - will only burn in oxygen enriched atmosphere, at elevated pressure
COMBUSTION PRODUCTS: chloride, hydrogen chloride, carbon monoxide and phosgene gas – all highly toxic and/or corrosive
FIREFIGHTING PRECAUTIONS: as for flammable sustaining fire; firefighters must wear SCBA
STATIC DISCHARGE: will not accumulate a static charge
MECHANICAL IMPACT: not sensitive
CHEMICAL STABILITY: stable; will not polymerize
REACTIVE WITH: strong oxidizing agents, alkalies, amines; reacts vigorously with aluminium powder and other light metals (lithium, sodium, potassium), nitric acid
DECOMPOSITION PRODUCTS: none apart from Hazardous Combustion Products
HAZARD IDENTIFICATION
HMIS (U.S.A.): Health – 2, Fire – 0, Reactivity - 1
MATERIAL USE: solvent, paint stripper



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9. PERSONAL PROTECTION MEASURES: HANDS: polyvinyl alcohol, "Trelchem", "Responder", or "Tychem" gloves
EYES: safety glasses with side shields or chemical goggles
VENTILATION: required to ensure an air concentration below TWAEV (50ppm) respirator with organic chemical, acid gas cartridge must be available – for escape purposes only
CLOTHING: impermeable (hands, above) apron, boots, long sleeves, if splashing is anticipated
10. FIRST AID PROCEDURES: SKIN: Wash with soap and plenty of water. Remove contaminated clothing and do not reuse until thoroughly cleaned or laundered.
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.
INHALATION: Remove from contaminated area promptly. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.
NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The risk and danger of this is greater than the risk of poisoning through absorption of this relatively low-toxicity product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.
11. EXPOSURE LIMITS: TWAEV ppm: 50ppm
12. TOXICOLOGICAL INFORMATION: EFFECTS ACUTE EXPOSSURE
SKIN CONTACT: aggressively drying, severe irritant which may cause blistering
SKIN ABSORPTION: not known – may be toxic by this route
EYE CONTACT: severely irritating, may damage eyes permanently
INHALATION: irritating to respiratory system; headache, dizziness, drowsiness, nausea, respiratory failure
INGESTION: headache, dizziness, drowsiness, nausea, vomiting, abdominal pain
Note: Product metabolises to carbon monoxide in the body – may seriously reduce the oxygen carrying capacity of blood.
EFFECTS OF CHRONIC EXPOSURE
GENERAL: prolonged exposure may cause skin cracking and dermatitis; damage liver and raise blood carbon monoxide levels; may be life threatening in some people SENSITISING: not a sensitizer
REPRODUCTIVE EFFECT: mutagen in rodents at 1000-3000ppm; no known effect on humans; aa reproductive effector by RTECS criteria
SYNERGISTIC WITH: ethyl (grain) alcohol, smoking, existing heart disease
ESTIMATED LD50: 1600mg/kg (oral, rat); 870mg/kg (oral mouse)
ESTIMATED LC50: 14,400ppm (inhalation, mouse); 14.950ppm (inhalation, rat)
13. ECOLOGICAL INFORMATION: This product cannot accumulate in living tissue – This product is readily and rapidly biodegradeable in the presence of oxygen
14. DISPOSAL CONSIDERAIONS: DO NOT FLUSH TO SEWER; may be incinerated in approved facility with continuous flue gas monitoring and scrubbing
15. CARCINOGENIC PROPERTIES & NOTIFICATIONS: Experimental tumorigen in rodents at below LD50, although no direct evidence exists, this product is considered a human carcinogen by RTECS criteria



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16. TRANSPORT USA 49 CFR
 INFORMATION: Product identification number: UN – 1593
 Shipping name: dichloromethane
 Classification: Class 6.1; Packing group III
 Label: poisonous substance
 Class: D 1B, D 2A

17. HANDLING & STORAGE: Store and use a cool dry environment, away from sources of ignition, heat and oxidizing agents. Do not allow this product to contact the ingredients listed in (4) above. Use with adequate ventilation. Do not cut, drill, weld or grind on or near this container. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath and safety shower should be available near the workplace.

18. ACCIDENTAL LEAK PRECAUTION: dyke to control spillage and prevent environmental contamination.
 RELEASE HANDLING SPILL: ventilate contaminated area; recover free liquid with suitable pumps; absorb residue
 MEASURES: on an inert sorbent, pick up using shovels, & store in closed containers for disposal.

19. REGULATORY -----\Chemical Inventory Status - Part 1\-----
 INFORMATION: Ingredient TSCA EC Japan Australia

Methylene Chloride (75-09-2) Yes Yes Yes Yes

-----\Chemical Inventory Status - Part 2\-----

--Canada--

Ingredient Korea DSL NDSL Phil.

Methylene Chloride (75-09-2) Yes Yes No Yes

-----\Federal, State & International Regulations - Part 1\-----

-SARA 302- -----SARA 313-----

Ingredient RQ TPQ List Chemical Catg.

Methylene Chloride (75-09-2) No No Yes No

-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-

Ingredient CERCLA 261.33 8(d)

Methylene Chloride (75-09-2) 1000 U080 No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
 Reactivity: No (Pure / Liquid)