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SAFETY DATA SHEET (SDS)

Methylene Di Chloride (MDC) *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS **75-09-2** EC **200-838-9** SIGNAL WORD **DANGER**

GHS07
Harmful / Irritant

GHS08
Health Hazard

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Methylene Di Chloride (MDC)
Product Type	Dichloromethane — industrial chemical
Chemical Family	Halogenated solvent / chlorinated hydrocarbon
CAS No.	75-09-2
EC No.	200-838-9
Intended Use	Industrial solvent; paint stripping, degreasing, pharmaceutical manufacturing, chemical extraction, blowing agent.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/methylene-di-chloride-mdc
SDS Revision	July 2026
SDS Version	3.1

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SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 4 (inhalation); Acute Tox. 4 (oral); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Carc. 1B; Repr. 2; Muta. 2; STOT RE 2

Signal Word	DANGER
GHS Pictograms	GHS07 (Harmful / Irritant) | GHS08 (Health Hazard)

HAZARD STATEMENTS

- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H336 — May cause drowsiness or dizziness
- H341 — Suspected of causing genetic defects
- H350 — May cause cancer
- H361 — Suspected of damaging fertility or the unborn child
- H373 — May cause damage to organs through prolonged or repeated exposure

PRECAUTIONARY – PREVENTION

- P233 — Keep container tightly closed.
- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P331 — Do NOT induce vomiting.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Methylene Di Chloride (Dichloromethane)	75-09-2	200-838-9	100	Acute Tox. 4 (oral, inhal.); Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; Carc. 1B; Repr. 2; Muta. 2; STOT RE 2

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Immediately remove person to fresh air. Keep warm and at rest. If not breathing, apply artificial respiration and seek emergency medical attention. Do not leave victim unattended.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation develops or persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention and call a POISON CENTER.
Note to Physician	MDC is metabolised to carbon monoxide in vivo; monitor for carboxyhaemoglobin levels. Treat symptomatically. CNS depression and cardiac sensitisation may occur. No specific antidote.

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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	CO_2, dry chemical powder, foam, water spray (not jet). MDC is non-flammable but will sustain a fire started by other materials.
Unsuitable Media	Direct high-pressure water jet — may spread material and contaminate drainage. Avoid water jet on hot containers.
Specific Hazards	MDC is not flammable under normal conditions but decomposes on contact with flames or hot surfaces to produce phosgene ($COCl_2$), hydrochloric acid (HCl), and carbon oxides — all toxic.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not enter fire area without full PPE.
Special Procedures	Evacuate non-essential personnel. Cool containers exposed to heat with water spray. Prevent contaminated fire-fighting water from entering drains or waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate non-essential personnel. Use full PPE as detailed in Section 8. Eliminate ignition sources. Ensure adequate ventilation — vapour is heavier than air and may accumulate in low-lying areas.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. Alert local authorities if significant release occurs.
Containment / Clean-up	Contain spill with inert absorbent material (sand, earth, vermiculite). Collect in labelled, sealable containers. Transfer to a licensed waste contractor. Ventilate the area thoroughly after clean-up.
Reference to Sections	See Section 8 for PPE details, Section 13 for disposal, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Handle in a well-ventilated area or under local exhaust ventilation. Avoid breathing vapours. Avoid contact with skin and eyes. Use bonded/earthed containers to prevent static build-up. Keep away from heat and ignition sources.
Hygiene	Wash hands and exposed skin thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink, or smoke when using this product.

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Storage Conditions	Store in original, tightly closed, compatible containers (steel or HDPE). Store in a well-ventilated, cool, dry area away from direct sunlight.
Storage Temperature	Ambient (below 35°C recommended). MDC boiling point is ~40°C — avoid heat.
Incompatible Materials	Strong oxidising agents, strong alkalis, aluminium and its alloys under elevated temperature, chemically active metals (Na, K, Mg). See Section 10.
Segregation	Segregate from food, drink, animal feed, oxidisers, and incompatible chemicals. Store locked up where carcinogen controls apply.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	OSHA PEL: 25 ppm TWA (construction); legacy 500 ppm (general industry — superseded by action levels). NIOSH REL: lowest feasible concentration (potential carcinogen). ACGIH TLV: 50 ppm TWA. EU OEL (indicative): 100 ppm (353 mg/m³) TWA; 300 ppm (1060 mg/m³) STEL. India (MOHFW/OSHA-aligned): verify current national schedule. Use ALARA principle.
Engineering Controls	Use closed systems or local exhaust ventilation (LEV) to maintain airborne concentrations below OEL. Continuous monitoring recommended in enclosed spaces. Explosion-proof equipment not required (non-flammable) but general electrical safety applies.
Respiratory Protection	If LEV is inadequate or during spill response: use air-purifying respirator with organic vapour cartridge (NIOSH/EN14387 OV). Use SCBA (pressure-demand) for emergency / high-concentration situations.
Hand / Eye / Skin	Gloves: chemical-resistant (e.g. butyl rubber, neoprene, or laminate film — nitrile offers limited breakthrough resistance; verify breakthrough time for this substance). Eye/face: EN 166 / ANSI Z87.1 chemical splash goggles; face shield for splash risk. Skin/body: chemical-resistant apron and safety footwear. Provide eyewash station and safety shower.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, volatile liquid

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Odour	Sweet, pleasant odour resembling chloroform
Odour Threshold	Not established in reviewed public sources
pH	Not applicable (neat solvent, non-aqueous)
Melting / Freezing Point	-96.7°C (-142.1°F) [NTP, 1992]
Boiling Point / Range	39.8°C (103.6°F) at 760 mmHg [NTP, 1992]
Flash Point	Not applicable — MDC is non-flammable (no flash point by closed-cup test)
Auto-ignition Temperature	640°C (1184°F) [USCG, 1999]
Flammability Limits	LEL 14% / UEL 22% in air (approximate; highly elevated temperature required — MDC is not readily flammable under normal conditions)
Vapour Pressure	~440 mmHg at 25°C (77°F) [NTP, 1992]; ~435 mmHg confirmed
Vapour Density (air = 1)	2.93 [NTP, 1992] — heavier than air; will sink and accumulate in low areas
Relative Density	1.322 at 20°C (68°F) [USCG, 1999] — denser than water; will sink
Solubility in Water	~13 g/L at 25°C (10–50 mg/mL range reported [NTP, 1992])
Log Pow (Partition Coeff.)	1.25 [peer-reviewed]
Evaporation Rate	Very high (highly volatile relative to n-BuOAc; exact relative rate — flag: verify from supplier SDS)
Viscosity	0.44 mPa·s (dynamic) at 20°C; 0.32 mm²/s (kinematic) at 20°C [peer-reviewed]
VOC Content	100% (MDC is a VOC; subject to regional VOC regulations — verify applicable exemptions)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Stabilisers (e.g. amylene, cyclohexene) are commonly added to inhibit decomposition — confirm with supplier.
Conditions to Avoid	Heat above boiling point (39.8°C), open flames, strong UV light, contact with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine); strong alkalis; aluminium chloride ($AlCl_3$) at elevated temperature; active metals (Na, K, Mg, Al powder). Reacts with chemically active metals to release HCl.
Hazardous Decomposition	On heating or combustion: phosgene ($COCl_2$), hydrogen chloride (HCl), carbon monoxide (CO), carbon dioxide (CO_2). All are toxic.

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Hazardous Reactions	No spontaneous hazardous polymerisation. Will not occur under normal storage conditions when handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD_{50} (rat): ~1600–2000 mg/kg (Harmful — H302). GHS Acute Tox. Cat. 4 (oral).
Acute Dermal Toxicity	Causes skin irritation (H315). Dermal LD_{50} not well-established; skin absorption possible. Confirm numeric endpoint from supplier SDS.
Acute Inhalation Toxicity	LC_{50} (rat, 4h): ~52,000 ppm (approximately 182 mg/L). GHS Acute Tox. Cat. 4 (inhalation — H332). High vapour pressure creates significant inhalation risk.
Skin Irritation	Classified: Skin Irrit. 2 (H315). Causes defatting of skin with repeated contact; risk of dermatitis.
Eye Irritation	Classified: Eye Irrit. 2 (H319). Causes serious eye irritation.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Classified: Carc. 1B (H350 — May cause cancer). IARC Group 2A (probably carcinogenic to humans). NIOSH lists as potential occupational carcinogen. Minimise all exposure.
Mutagenicity	Classified: Muta. 2 (H341 — Suspected of causing genetic defects). In vitro mutagenicity data positive in some assays; in vivo significance uncertain. Confirm from authoritative regulatory source.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	MDC is moderately toxic to aquatic organisms. LC_{50} (fish, 96h): ~224 mg/L (Pimephales promelas). EC_{50} (Daphnia, 48h): ~1000 mg/L. Not classified as acutely or chronically aquatic toxic under GHS from Section 2; however avoid release to water environments.
Persistence / Degradability	Abiotic hydrolysis is slow. Aerobic biodegradation possible under some conditions but MDC is not readily biodegradable. Atmospheric half-life ~150 days (reaction with OH radicals).
Bioaccumulation	Low bioaccumulation potential. Log Kow = 1.25 (BCF estimated <100). Does not bioaccumulate significantly.
Mobility in Soil	Moderately mobile in soil due to low adsorption coefficient (Koc ~25 L/kg). High vapour pressure promotes volatilisation from soil and

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	water surfaces. Risk of groundwater contamination.
Other Adverse Effects	Contributes to ozone depletion at stratospheric levels (minor contributor). Avoid uncontrolled release to the environment. Manage under applicable environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Do not allow to enter drains, sewers, or watercourses. Dispose of contents through an authorised hazardous waste contractor in accordance with local and national regulations. Incineration in an approved facility is the preferred disposal route.
Contaminated Packaging	Empty containers may retain residues; treat as hazardous until professionally cleaned or disposed. Do not reuse containers for food, drink, or domestic purposes.
Indian Regulations	Classify and dispose of as hazardous waste under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (Schedule I / II as applicable). Obtain authorisation from State Pollution Control Board (SPCB) / CPCB. Comply with Water (Prevention and Control of Pollution) Act, 1974 and Environment Protection Act, 1986.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1593	UN 1593	UN 1593
Proper Shipping Name	DICHLOROMETHANE	DICHLOROMETHANE	DICHLOROMETHANE
Class	6.1	6.1	6.1
Packing Group	III	III	III
Marine Pollutant	No	No	N/A

Verify current edition of ADR/IMDG/IATA DGR before shipment. UN-certified packaging required. Label with Class 6.1 placard. EmS (IMDG): F-A, S-A. Tunnel code (ADR): E. Special provisions: confirm with freight forwarder.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Registered under REACH. Classified under EU CLP: Acute Tox. 4 (H302, H332); Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H336); Carc. 1B (H350); Repr. 2 (H361); Muta. 2 (H341); STOT RE 2 (H373).

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	Subject to authorisation consideration under REACH Annex XIV. SDS prepared per REACH Annex II (2020/878/EU).
OSHA (USA)	Prepared in 16-section format aligned with OSHA HCS 2012 / HazCom 2012 (29 CFR 1910.1200). MDC is specifically regulated by OSHA under 29 CFR 1910.1052 (Methylene Chloride Standard) — includes PEL, action level, medical surveillance, and written compliance programme requirements.
India	Observe applicable requirements under: Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989 (amended); Environment Protection Act 1986; Hazardous and Other Wastes Rules 2016; Factories Act 1948 (Schedule of Hazardous Processes); CPCB guidelines. IEC code required for import.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label using Section 2 classification; bilingual SDS/label required for Canadian sale. Australia AICS: verify inventory listing. China: comply with GB/T 16483 SDS requirements. Middle East / GCC: local GHS-aligned requirements apply. Verify inventory and OEL status before export to any jurisdiction.

SECTION 16 OTHER INFORMATION

Prepared By	**Supreme Petro Chemicals** — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes Rev 1.0 dated May 2026 and all prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance with all applicable laws and regulations.

FULL TEXT OF H-STATEMENTS

- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled

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- H336 — May cause drowsiness or dizziness
- H341 — Suspected of causing genetic defects
- H350 — May cause cancer
- H361 — Suspected of damaging fertility or the unborn child
- H373 — May cause damage to organs (central nervous system, liver) through prolonged or repeated exposure