



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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SAFETY DATA SHEET (SDS)

Chloroform *SDS*

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

CAS 67-66-3 EC 200-663-8 SIGNAL WORD **DANGER**

GHS05 Corrosive	GHS06 Acute Toxicity	GHS07 Harmful / Irritant	GHS08 Health Hazard
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Chloroform
Product Type	Chlorinated solvent — corrosive / toxic chemical
Chemical Family	Halogenated hydrocarbon (chloroalkane)
CAS No.	67-66-3
EC No.	200-663-8
Intended Use	Industrial / professional use as solvent, reagent, and extraction agent. See SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use. Not for domestic 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/chloroform
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Acute Tox. 4 (Oral); Acute Tox. 3 (Inhalation); Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3 (Narcosis); STOT RE 1; STOT RE 2; Repr. 2
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Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive) GHS06 (Acute Toxicity) GHS07 (Harmful / Irritant) GHS08 (Health Hazard)

HAZARD STATEMENTS

- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H319 — Causes serious eye irritation
- H331 — Toxic if inhaled
- H336 — May cause drowsiness or dizziness
- H351 — Suspected of causing cancer
- H361 — Suspected of damaging fertility or the unborn child
- H372 — Causes damage to organs through prolonged or repeated exposure
- 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.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P331 — Do NOT induce vomiting.



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- P312 — Call a POISON CENTER or doctor if you feel unwell.
- 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
Chloroform (trichloromethane)	67-66-200- 3	200- 663-8	≥99	Acute Tox. 4 (Oral); Acute Tox. 3 (Inhalation); Skin Irrit. 2; Eye Dam. 1; Eye Irrit. 2; STOT SE 3; STOT RE 1; STOT RE 2; Repr. 2; H302, H315, H318, H319, H331, H336, H351, H361, H372, H373

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or symptoms persist.
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 — chloroform can cause serious eye damage.
Ingestion	Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek immediate medical attention / call POISON CENTER.
Note to Physician	Chloroform is a CNS depressant and suspected carcinogen. Supportive treatment; monitor hepatic and renal function after significant exposure. No specific antidote. Treat symptomatically.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	CO ₂ , dry chemical powder, foam, water spray. Use media appropriate to surrounding fire.
Unsuitable Media	Direct high-pressure water jet (may spread product).
Specific Hazards	Chloroform is not flammable but thermal decomposition in fire produces toxic gases including hydrogen chloride (HCl), phosgene (COCl ₂), and chlorine (Cl ₂). Containers may rupture when heated.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not rely on filter masks – phosgene generation risk.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Evacuate non-essential personnel. Eliminate all ignition sources. Use full PPE including SCBA (see Section 8). Avoid breathing vapours – chloroform vapours are toxic and heavier than air.
Environmental Precautions	Prevent entry into drains, sewers, soil, and watercourses. If large release enters a water body, inform local environmental authority.
Containment / Clean-up	Contain spill with inert absorbent material (sand, vermiculite, dry earth). Collect in labelled, closed, compatible containers for disposal through an approved waste contractor. Do not flush to drain.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use only in areas with adequate ventilation or local exhaust ventilation. Avoid inhalation of vapours. Keep containers tightly closed when not in use. Prevent vapour accumulation – vapour is heavier than air.
Hygiene	Wash hands thoroughly after handling. Remove and wash 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, chemically compatible containers (glass, HDPE, or lined steel). Store away from light and heat. Keep locked up.
Storage Temperature	Ambient (below 30°C preferred). Boiling point is 61°C — avoid storage near heat sources.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides), strong bases, aluminium chloride under elevated temperatures, reactive metals. Avoid contact with concentrated acids and halogens.
Segregation	Segregate from food, drink, animal feed, oxidisers, and incompatible chemicals. Do not store in direct sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Chloroform (CAS 67-66-3): OSHA PEL 50 ppm (ceiling); NIOSH REL 2 ppm (60-min ceiling), ACGIH TLV-TWA 10 ppm; EU OEL 2 ppm (10 mg/m ³) STEL 2 ppm. India: Follow applicable MSIHC / BIS IS 1989 OEL; consult regional authority. Minimise exposure to ALARA given carcinogenicity concern (H351).
Engineering Controls	Use closed systems and local exhaust ventilation (LEV). General dilution ventilation alone is insufficient for high-vapour-pressure scenarios. Use explosion-proof ventilation where applicable.
Respiratory Protection	If LEV is inadequate, use NIOSH/EN-approved organic vapour respirator (half-face with OV cartridge) for routine use; SCBA for emergency, confined-space entry, or high concentrations.
Hand / Eye / Skin	Gloves: chemical-resistant (butyl rubber, neoprene, or laminate); verify breakthrough time. Eye/face: chemical-splash goggles; face shield for transfer operations. Body: chemical-resistant apron/coveralls, safety boots. Provide eyewash station and safety shower in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless mobile liquid
Odour	Pleasant, sweet, ethereal (non-irritating at low concentrations)
Odour Threshold	Not established from reviewed public source text



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pH	Not applicable (non-aqueous liquid; does not ionise in water at normal conditions)
Melting / Freezing Point	–63.5 °C (–82.3 °F) [EPA, 1998]
Boiling Point / Range	61.2 °C (143 °F) at 760 mmHg [EPA, 1998]
Flash Point	None — not flammable [USCG, 1999]
Auto-ignition Temperature	Not applicable (non-flammable)
Flammability Limits	Not flammable
Vapour Pressure	197 mmHg at 25 °C; 100 mmHg at 10.4 °C (50.72 °F) [EPA, 1998]
Vapour Density (air = 1)	4.12 — heavier than air; vapours will sink and accumulate at low levels [EPA, 1998]
Relative Density	1.4832 at 20 °C (68 °F) — denser than water; will sink [EPA, 1998]
Solubility in Water	Slightly soluble: ~8 g/L at 20 °C; partially miscible
Log Pow (Partition Coeff.)	1.97 [peer-reviewed]
Evaporation Rate	See supplier SDS for grade-specific value; high relative to butyl acetate due to low boiling point
Viscosity	0.563 cP (5.63 millipoises) at 20 °C; 0.510 cP (5.10 millipoises) at 30 °C [peer-reviewed]
VOC Content	Assess per applicable regional VOC regulations; consult supplier SDS for grade-specific value

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. May slowly decompose on prolonged exposure to light and air, forming phosgene — store in amber/opaque containers.
Conditions to Avoid	Avoid heat above 30 °C, direct sunlight, and open flames. Avoid contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Reactive with aluminium chloride (AlCl ₃) under elevated temperatures. Concentrated acids and halogens. Strong bases.
Hazardous Decomposition	Thermal decomposition or combustion in fire produces toxic gases: hydrogen chloride (HCl), phosgene (COCl ₂), chlorine (Cl ₂), and carbon oxides.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	H302 — Harmful if swallowed. LD ₅₀ (oral, rat): ~1,000 mg/kg (Acute Tox. 4). Confirm with supplier/regulatory source.
Acute Dermal Toxicity	No specific classification for dermal route. Causes skin irritation (H315). Prolonged skin contact may result in absorption.
Acute Inhalation Toxicity	H331 — Toxic if inhaled. LC ₅₀ (inhalation, rat): ~47,702 ppm/1h (Acute Tox. 3 by inhalation). CNS depression at high vapour concentrations.
Skin Irritation	H315 — Causes skin irritation. Prolonged or repeated contact may cause dermatitis.
Eye Irritation	H318 — Causes serious eye damage. H319 — Causes serious eye irritation. Vapours may also irritate eyes.
Sensitisation	Not classified as a skin or respiratory sensitiser.
Carcinogenicity	H351 — Suspected of causing cancer (IARC Group 2A: probable human carcinogen). Avoid prolonged inhalation and skin contact.
Mutagenicity	Not classified as a mutagen based on reviewed data.
Reproductive Toxicity	H361 — Suspected of damaging fertility or the unborn child (Repr. 2).
STOT (Single Exposure)	H336 — May cause drowsiness or dizziness (narcosis). Target organ: central nervous system.
STOT (Repeated Exposure)	H372 — Causes damage to organs through prolonged or repeated exposure (STOT RE 1). H373 — May cause damage to organs (STOT RE 2). Target organs: liver, kidneys, CNS.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No aquatic environmental hazard classification identified in reviewed data. Avoid release — chloroform is toxic to aquatic organisms at higher concentrations. Obtain supplier/ecotoxicity data for registration or export requirements.
Persistence / Degradability	Chloroform is not readily biodegradable in water. Hydrolyses slowly under environmental conditions. Do not assume ready biodegradability; verify from supplier or ECHA data.
Bioaccumulation	Low bioaccumulation potential: log K _{ow} = 1.97. BCF values are low; not considered significantly bioaccumulative.
Mobility in Soil	Moderately mobile in soil due to water solubility. Can leach to groundwater. Prevent release to soil and groundwater.



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Other Adverse Effects

Chloroform is listed under various environmental monitoring regulations. Avoid uncontrolled release. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product

Dispose of contents through an authorised hazardous waste contractor in accordance with local regulations. Do not pour down drains or sewers.

Contaminated Packaging

Empty containers may retain hazardous residues. Handle as hazardous until cleaned or disposed of in accordance with local regulations. Do not re-use containers for food or non-chemical purposes.

Indian Regulations

Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (as amended) under Environment Protection Act, 1986. Obtain necessary authorisation from State Pollution Control Board for disposal.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1888	UN 1888	UN 1888
Proper Shipping Name	CHLOROFORM	CHLOROFORM	CHLOROFORM
Class	6.1	6.1	6.1
Packing Group	III	III	III
Marine Pollutant	Verify with carrier	Verify with carrier	N/A

UN-certified drums required for international transport. Containers must be labelled with Class 6.1 placard, UN 1888, PG III, and product name. Verify current ADR/IMDG/IATA requirements with carrier before each shipment. EmS (IMDG): verify with carrier.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Classified and labelled according to CLP Regulation (EC) No 1272/2008 and REACH Regulation (EC) No 1907/2006. Observe all applicable REACH/CLP requirements including SVHCs where applicable.

OSHA (USA)

Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution.



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India	Observe applicable Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules, 1989 (as amended); Environment Protection Act, 1986; Hazardous Waste Rules, 2016; Factories Act, 1948; and relevant State PCB requirements.
Canada (WHMIS)	Classify and label under WHMIS 2015/HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure per HPR.
Other Jurisdictions	Use applicable GB/T (China), GCC, Australia (AICS), and other jurisdiction-specific requirements where marketed. Final market placement requires confirmation of inventory status, local OELs, transport class, waste code, and restrictions.

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 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.

FULL TEXT OF H-STATEMENTS

- H302 — Harmful if swallowed
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H319 — Causes serious eye irritation
- H331 — Toxic if inhaled
- H336 — May cause drowsiness or dizziness
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