



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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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Cyclohexane *SDS*

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

CAS **110-82-7** EC **203-806-2** SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS08

Health Hazard

GHS09

Environmental
Hazard

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

Product Name	Cyclohexane
Product Type	Hydrocarbon solvent
Chemical Family	Cycloalkane
CAS No.	110-82-7
EC No.	203-806-2
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer 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/cyclohexane
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1

Signal Word **DANGER**



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GHS Pictograms	GHS02 (Flammable Liquid) GHS07 (Harmful / Irritant) GHS08 (Health Hazard) GHS09 (Environmental Hazard)
Other GHS Hazard Classes	Not classified for unlisted hazard classes based on reviewed public/source data.

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H336 — May cause drowsiness or dizziness
- H410 — Very toxic to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- 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.



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- P331 — Do NOT induce vomiting.
- 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
Cyclohexane	110-82-7	203-806-2	100	Flam. Liq. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1; Aquatic Acute 1; Aquatic Chronic 1

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, obtain medical attention. Do not induce vomiting where aspiration hazard is possible.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately. Aspiration hazard — see Note to Physician.
Note to Physician	Aspiration into lungs may cause chemical pneumonitis. Do not induce vomiting due to aspiration hazard (H304). Treat symptomatically based on exposure route and product hazards.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO ₂). Cool containers with water spray.
Unsuitable Media	Direct high-pressure water jet where it may spread the burning material.



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Specific Hazards	Highly flammable liquid and vapour (H225). Vapours may form explosive mixtures with air; vapours are heavier than air and may travel to remote ignition sources and flash back. Containers may rupture or explode when heated. Combustion produces carbon oxides and toxic fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel from the area. Use grounded/explosion-proof equipment. Prevent contaminated firefighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Ensure adequate ventilation. Bond/ground all equipment to prevent static discharge. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Substance is classified as very toxic to aquatic life (H410); contain and report any significant release to the environment per local regulations.
Containment / Clean-up	Absorb with inert material (sand, vermiculite, dry earth). Collect absorbed material into labelled 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 explosion-proof ventilation and grounded/bonded equipment. Keep away from heat, sparks, open flames and oxidisers. Avoid breathing vapours.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage. Store in a cool, well-ventilated location away from ignition sources.
Storage Temperature	Ambient temperature (below 25°C preferred); keep cool. Observe supplier specification.



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Incompatible Materials	Strong oxidisers (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Avoid contact with aluminium chloride (AlCl ₃) at elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	ACGIH TLV-TWA: 100 ppm (8 h). NIOSH REL-TWA: 300 ppm (10 h). OSHA PEL: 300 ppm (8 h TWA). India / local OEL: verify current national standard; apply ALARA where no OEL is established. CAS 110-82-7.
Engineering Controls	Use closed handling systems and local exhaust ventilation (LEV) for vapour control. Use explosion-proof ventilation and bonding/grounding for this flammable liquid.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergencies or high-concentration spills.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl, neoprene or laminate; select thickness/breakthrough time appropriate for the task. Eyes: EN 166/ANSI Z87.1 chemical splash goggles; face shield for splash risk. Body: chemical-resistant clothing/apron and antistatic safety footwear. Eyewash and safety shower must be available in the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid.
Odour	Characteristic petrol-like / sweet odour.
Odour Threshold	Not established.
pH	Not applicable (non-aqueous liquid).
Melting / Freezing Point	Approx. 6.5°C (literature value for pure substance; verify from supplier COA).
Boiling Point / Range	Approx. 80.7°C at 1013 hPa (literature value; verify from supplier COA).
Flash Point	Approx. -18°C (closed cup) — corrected from source which erroneously placed this value under Boiling Point.
Auto-ignition Temperature	Approx. 245°C (literature; verify from supplier data).



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Flammability Limits	Lower (LEL): 1.2% v/v; Upper (UEL): 8.3% v/v (literature; verify from supplier data).
Vapour Pressure	Approx. 100 hPa at 20°C — corrected from source which erroneously placed this value under Flammability Limits.
Vapour Density (air = 1)	Approx. 2.9 (heavier than air; literature value).
Relative Density	Approx. 0.78 at 20°C — corrected from source which erroneously placed this value under Vapour Density.
Solubility in Water	Practically insoluble in water — corrected from source which erroneously placed this value under Relative Density. Miscible with most organic solvents.
Log Pow (Partition Coeff.)	Approx. 3.44 (literature; verify from supplier or ECHA data).
Evaporation Rate	High (relative to butyl acetate = 1); verify from supplier specification.
Viscosity	Approx. 1.0 mPa·s at 20°C (literature; verify from supplier COA).
VOC Content	Essentially 100% VOC. Assess under applicable local VOC emission rules.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, sparks, open flames, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) at elevated temperature — not a concern under normal ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes may be formed in fire or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. Will not occur under normal storage conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Classified Asp. Tox. 1 (H304): may be fatal if swallowed and enters airways. LD ₅₀ (rat, oral): approx. 12,705 mg/kg (literature). Seek supplier/test confirmation for batch-specific data.
Acute Dermal Toxicity	Not specifically classified for acute dermal toxicity. May cause defatting and dryness on prolonged or repeated contact. Endpoint-



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	specific data requires supplier/test confirmation.
Acute Inhalation Toxicity	Classified STOT SE 3 (H336): may cause drowsiness or dizziness via inhalation of vapours. Solvent vapours affect the central nervous system. LC ₅₀ data: verify from supplier or ECHA.
Skin Irritation	Classified Skin Irrit. 2 (H315): causes skin irritation. May cause redness, dryness, defatting on contact.
Eye Irritation	May irritate eyes. Not classified for serious eye damage based on reviewed data; confirm with supplier.
Sensitisation	Not classified as a skin or respiratory sensitizer based on reviewed public data.
Carcinogenicity	Not classified as a carcinogen (IARC, NTP, ACGIH) based on available data. Endpoint-specific assessment: see Section 2 and Section 3.
Mutagenicity	Not classified for mutagenicity based on available data. Additional numeric endpoint data requires supplier/test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Acute 1 and Aquatic Chronic 1 (H410): very toxic to aquatic life with long lasting effects. LC ₅₀ /EC ₅₀ /NOEC values: obtain from supplier, ECHA or PubChem where required for site-specific risk assessment.
Persistence / Degradability	Cyclohexane is inherently biodegradable but not readily biodegradable under standard test conditions. Do not assume ready biodegradability without verified test data.
Bioaccumulation	Log Kow approx. 3.44; moderate potential for bioaccumulation. BCF data: verify from supplier or ECHA.
Mobility in Soil	Low solubility in water; moderate to high mobility depending on soil type. High vapour pressure indicates potential for significant volatilisation from soil. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. 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 into the environment.
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Contaminated Packaging	Empty containers may retain residues; handle as hazardous until professionally cleaned or disposed. Return to supplier or dispose via authorised contractor.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and applicable SPCB / CPCB and pollution-control board requirements. Assign waste code per actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1145	UN 1145	UN 1145
Proper Shipping Name	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	Verify — likely YES (aquatic hazard present; confirm against current IMDG criteria)	Verify — likely YES	—
Tunnel Restriction (ADR)	D/E	—	—
EmS (IMDG)	—	F-E, S-D	—

Packaging: UN-certified drum required for international transport, labelled with Class 3 placard, UN 1145, PG II and product name. Follow applicable ADR / IMDG / IATA requirements in force at time of shipment. Verify current carrier rules and marine pollutant status from IMDG supplement or supplier data before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the GHS/CLP classification in Section 2. Observe applicable workplace chemical, VOC and environmental directives.
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules, Factories Act, Environment Protection Act, Hazardous and Other Wastes Rules 2016, workplace, storage, transport and pollution-control requirements.



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Canada WHMIS / HPR	Classify and label under WHMIS 2015/HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure.
Other Jurisdictions	China (GB Standards): use applicable GB/T SDS and classification requirements where marketed. GCC / Middle East: observe applicable GHS-aligned local requirements. Australia (AICS): check inventory status before export or import. 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)
Key Sources	SPC product page; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem CID 8078; ECHA dossier CAS 110-82-7; NIOSH/OSHA; CAMEO; public supplier SDS and transport references. Accessed June 2026.
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. Supreme Petro Chemicals shall not be liable for any loss, injury, or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- H225 — Highly flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
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