



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Cyclohexanone *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 108-94-1

EC 203-631-1

SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS05

Corrosive / Eye Damage

GHS07

Harmful / Irritant

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

Product Name	Cyclohexanone
Product Type	Ketone solvent / intermediate
Chemical Family	Cyclic ketone
CAS No.	108-94-1
EC No.	203-631-1
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/cyclohexanone
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; Acute Tox. 4 (oral, dermal, inhalation); Skin Irrit. 2; Eye Dam. 1

Signal Word **DANGER**



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GHS Pictograms

GHS02 (Flammable Liquid) | GHS05 (Corrosive / Eye Damage) |
GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H315 — Causes skin irritation
- H318 — Causes serious eye damage
- H332 — Harmful if inhaled

PRECAUTIONARY – PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground and 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.
- 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
Cyclohexanone	108-94-1	203-631-1	100	Flam. Liq. 3; Acute Tox. 4 (oral, dermal, inhal.); Skin Irrit. 2; Eye Dam. 1 — H226, H302, H312, H315, H318, H332

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 immediately.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Cyclohexanone vapour may cause CNS depression at high concentrations.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO ₂). Cool exposed containers with water spray.
Unsuitable Media	Direct high-pressure water jet — may spread the burning liquid.
Specific Hazards	Flammable vapours may form explosive mixtures with air; vapours travel to ignition sources and flash back. Containers may rupture



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when heated. Products of combustion include carbon oxides and irritating fumes.

Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Use grounded / explosion-proof equipment. Prevent contaminated fire-water run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Ensure adequate ventilation. Bond and ground equipment. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if a significant spill occurs.
Containment / Clean-up	Absorb with inert material (sand, earth, vermiculite). Collect into labelled containers for disposal through an approved waste contractor. Avoid raising dust or vapour.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use explosion-proof ventilation and grounded equipment. Keep away from heat, sparks, open flames and oxidisers. Use non-sparking tools.
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.
Storage Temperature	Ambient temperature (below 30°C preferred); keep cool and away from direct sunlight.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine). Concentrated acids, halogens. Avoid contact with aluminium chloride under elevated temperatures.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.



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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Cyclohexanone (CAS 108–94–1): use verified local OEL (8h TWA) and STEL (15 min) where established (OSHA / NIOSH / ACGIH / EU / UK / India). Apply ALARA / good industrial hygiene where no local OEL is set. Supplier / regional OEL confirmation required.
Engineering Controls	Closed handling systems with local exhaust ventilation for vapour and mist. Use explosion-proof ventilation and bonding / grounding for this flammable liquid.
Respiratory Protection	If ventilation is inadequate, use a NIOSH / EN-approved respirator fitted with an organic vapour cartridge. Use SCBA for emergency / confined-space situations.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl, neoprene or laminate); select for breakthrough time. Eyes: chemical splash goggles (EN 166 / ANSI Z87.1); face shield for splash risk. Body: chemical-resistant apron / coverall; antistatic footwear where flammable vapours may occur. Provide eyewash and safety shower at the work station.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless to pale yellow liquid.
Odour	Characteristic peppermint-like / solvent odour.
Odour Threshold	Not established (verify with supplier).
pH	Not applicable (pure organic liquid).
Melting / Freezing Point	Approx. –31°C
Boiling Point / Range	Approx. 155–156°C at 101.3 kPa
Flash Point	Approx. 44°C (closed cup)
Auto-ignition Temperature	Approx. 420°C
Flammability Limits	LEL approx. 1.1 % v/v — UEL approx. 9.4 % v/v
Vapour Pressure	Approx. 4–5 hPa at 20°C
Vapour Density (air = 1)	Approx. 3.4 (heavier than air; vapours accumulate at low levels)
Relative Density	Approx. 0.95 (water = 1)
Solubility in Water	Partly soluble (approx. 23 g/L at 20°C)
Log Pow (Partition Coeff.)	Approx. 0.81
Evaporation Rate	Slower than diethyl ether; verify with supplier specification.
Viscosity	Approx. 2.2 mPa·s at 20°C (verify with supplier).



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VOC Content	Assess under applicable local VOC regulations; product is essentially 100% VOC.
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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, ignition sources, contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl_3) under elevated temperature – not a concern in normal ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO , CO_2) and irritating or toxic fumes may form in fire.
Hazardous Reactions	No hazardous polymerisation. Will not occur under normal conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Harmful if swallowed (Acute Tox. 4, H302). LD_{50} (rat, oral) approx. 1535–1900 mg/kg – verify with supplier test data.
Acute Dermal Toxicity	Harmful in contact with skin (Acute Tox. 4, H312). LD_{50} (rabbit, dermal) confirm with supplier.
Acute Inhalation Toxicity	Harmful if inhaled (Acute Tox. 4, H332). LC_{50} (rat, 4h vapour) confirm with supplier. Vapour may cause CNS depression, headache, dizziness and narcosis at high concentrations.
Skin Irritation	Causes skin irritation (Skin Irrit. 2, H315).
Eye Irritation	Causes serious eye damage (Eye Dam. 1, H318). May cause permanent eye injury.
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed data.
Carcinogenicity	Not classified as a carcinogen (IARC, NTP, OSHA). Endpoint-specific data: see supplier SDS / ECHA REACH dossier.
Mutagenicity	Not classified as a mutagen based on reviewed data. Endpoint-specific assessment requires supplier / test confirmation.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity data (LC ₅₀ , EC ₅₀) not universally verified; avoid environmental release. Obtain supplier / ECHA data if needed for registration or export.
Persistence / Degradability	Cyclohexanone is considered readily biodegradable under aerobic conditions. Verify with supplier / ECHA if required.
Bioaccumulation	Low bioaccumulation potential based on Log Pow ≈0.81 (BCF expected to be low). Verify with supplier / ECHA dossier.
Mobility in Soil	Partly water-soluble; moderate mobility in 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 waste contractor in accordance with local / national regulations. Do not pour into drains or watercourses.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous waste until cleaned to a safe standard or disposed of through an approved contractor.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and applicable State 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 1915	UN 1915	UN 1915
Proper Shipping Name	CYCLOHEXANONE	CYCLOHEXANONE	CYCLOHEXANONE
Class	3	3	3
Packing Group	III	III	III
Marine Pollutant	No	No	—



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PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
Tunnel Restriction (ADR)	D/E	—	—
EmS (IMDG)	—	F-E, S-D	—

UN-certified drum required for international transport. Label with Class 3 placard, UN 1915, PG III and product name. Verify current carrier / regulatory rules before each shipment. Follow all applicable ADR / IMDG / IATA requirements.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to the GHS / CLP classification listed in Section 2.
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 MSIHC Rules, Factories Act, Hazardous Waste Rules 2016, EPA, CPCB / SPCB requirements and relevant transport / storage regulations.
Other Jurisdictions	Canada WHMIS 2015 / HPR: classify and label using Section 2 classification; Canadian sale may require bilingual SDS / label. Middle East / GCC: observe applicable GHS-aligned local requirements. Australia (AICS): check inventory status before import. China: apply GB/T SDS and classification requirements where marketed.
Regulatory Scope Limitation	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



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