



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)

Hexane *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS **110-54-3**

EC **203-777-6**

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	Hexane
Product Type	Hexane — solvent / industrial chemical
Chemical Family	Aliphatic Hydrocarbon (n-Hexane)
CAS No.	110-54-3
EC No.	203-777-6
Intended Use	Industrial / professional use as described on the SPC product page.
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/hexane
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; STOT SE 3; Repr. 2; STOT RE 1; STOT RE 2; Aquatic Chronic 2

Signal Word **DANGER**



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GHS Pictograms

GHS02 (Flammable Liquid) · GHS07 (Harmful / Irritant) · GHS08
(Health Hazard) · GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H225 — Highly flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation
- H336 — May cause drowsiness or dizziness
- 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
- H411 — Toxic to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- 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.



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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
Hexane (n-Hexane)	110-54-3	203-777-6	100	Flam. Liq. 2; Asp. Tox. 1; Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2; STOT SE 3; Repr. 2; STOT RE 1; STOT RE 2; Aquatic Chronic 2

Percentages are by weight. 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. Seek medical attention if symptoms persist.
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 medical attention immediately.
Ingestion	Rinse mouth with water. Do NOT induce vomiting (aspiration hazard — H304). Seek immediate medical attention / call a POISON CENTER.
Note to Physician	Aspiration hazard: vomiting must be avoided. Treat symptomatically. CNS depression and peripheral neuropathy possible with repeated/prolonged exposure (STOT RE). No specific antidote.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical powder, carbon dioxide (CO ₂), foam, or fine water spray. Sand or earth for small fires.
Unsuitable Media	Do not use direct high-pressure water jet — may spread burning liquid.
Specific Hazards	Highly flammable liquid and vapour (H225). Vapours may form explosive mixtures with air; vapours travel to ignition sources and may flash back. Containers may rupture violently when heated (BLEVE risk). Combustion products include carbon monoxide and carbon dioxide.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Do not enter fire area without SCBA.
Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated firefighting run-off from entering drains and waterways. Use grounded/explosion-proof equipment in surrounding area.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Use PPE specified in Section 8. Ventilate the area. Keep upwind. Evacuate unnecessary personnel.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. If release reaches water or drains, notify relevant environmental and emergency authorities.
Containment / Clean-up	Contain spill with sand, earth or inert absorbent material. Collect material into labelled, sealed, compatible containers for disposal through an approved waste contractor. Avoid sparks and open flames during clean-up.
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 adequate local exhaust ventilation and closed systems where possible. Avoid breathing vapours. Keep away from heat, sparks,
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	open flames and hot surfaces. Use only non-sparking tools and explosion-proof equipment.
Hygiene	Wash hands thoroughly after handling. Remove and wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible containers (steel drum / UN-approved containers) in a cool, dry, well-ventilated area away from direct sunlight and ignition sources.
Storage Temperature	Ambient temperature (below 30 °C recommended); keep away from heat sources.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), concentrated acids, halogens. Reactive with aluminium chloride (AlCl ₃) at elevated temperatures.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store away from oxidisers and sources of ignition.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Hexane (CAS 110-54-3): OSHA PEL 500 ppm (8h TWA); ACGIH TLV 50 ppm (8h TWA); NIOSH REL 50 ppm (10h TWA). India: verify with applicable MSIHC / state factory inspectorate limits. Apply ALARA where limits are not established.
Engineering Controls	Use closed handling systems and local exhaust ventilation (LEV) to control vapour concentrations below OEL. Use explosion-proof ventilation equipment and grounding/bonding for flammable liquid transfer.
Respiratory Protection	If LEV is inadequate to maintain concentrations below OEL, use a NIOSH/EN-approved organic vapour respirator (half-face or full-face with OV cartridge). Use SCBA for emergencies or where concentrations are unknown.
Hand / Eye / Skin	Gloves: chemical-resistant nitrile, butyl, neoprene or laminate gloves – verify breakthrough time for intended exposure. Eye/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: antistatic chemical-resistant clothing and safety footwear. Provide eyewash station and emergency shower.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, colourless, volatile liquid
Odour	Gasoline-like (petroleum/petrol odour)
Odour Threshold	Not established in reviewed public sources
pH	Not applicable (non-aqueous liquid)
Melting / Freezing Point	–95 °C / –139 °F (NTP, 1992)
Boiling Point / Range	69 °C / 156 °F at 760 mmHg (NTP, 1992)
Flash Point	–23 °C / –9.4 °F (closed cup, NTP, 1992)
Auto-ignition Temperature	225 °C / 437 °F (USCG, 1999)
Flammability Limits	LEL: 1.1 % v/v — UEL: 7.5 % v/v (literature values; verify from supplier SDS)
Vapour Pressure	120 mmHg at 68 °F / 153 mmHg at 77 °F (NTP, 1992)
Vapour Density (air = 1)	2.97 — Heavier than air; vapour will sink and accumulate at low levels (NTP, 1992)
Relative Density	0.659 at 68 °F / 20 °C (USCG, 1999) — Less dense than water; will float
Solubility in Water	< 1 mg/mL at 61.7 °F / 16.5 °C (NTP, 1992) — Practically insoluble
Log Pow (Partition Coeff.)	3.90 (log Kow, peer-reviewed)
Evaporation Rate	High (relative to butyl acetate = 1); assess per applicable regional VOC regulations
Viscosity	0.377 cP at 15 °C (peer-reviewed)
VOC Content	100 % (pure solvent); assess per applicable regional VOC regulations

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Heat, open flames, sparks, ignition sources, elevated temperatures, contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern under normal ambient storage.
Hazardous Decomposition	Carbon monoxide (CO), carbon dioxide (CO ₂), and irritating or toxic fumes may be produced in fire or high-temperature decomposition.
Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions when stored correctly and away



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from incompatibles.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Aspiration hazard (H304): may be fatal if swallowed and enters airways. Aspiration into lungs during ingestion or vomiting may cause chemical pneumonitis. Do NOT induce vomiting. Numeric LD ₅₀ data: confirm from supplier/test data.
Acute Dermal Toxicity	Skin irritant (H315 — Skin Irrit. 2). Skin sensitizer (H317 — Skin Sens. 1). Repeated or prolonged skin contact may cause dermatitis. Numeric LD ₅₀ data: confirm from supplier.
Acute Inhalation Toxicity	Causes drowsiness or dizziness at elevated vapour concentrations (H336 — STOT SE 3). Possible CNS depression. Numeric LC ₅₀ data: confirm from supplier / ECHA.
Skin Irritation	Classified Skin Irrit. 2 (H315). Causes skin irritation; may also cause allergic skin reaction (H317).
Eye Irritation	Classified Eye Irrit. 2 (H319). Causes serious eye irritation.
Sensitisation	Classified Skin Sens. 1 (H317). May cause an allergic skin reaction.
Carcinogenicity	Not classified as carcinogen under GHS/CLP. Not listed by IARC, NTP or OSHA as carcinogen. Verify with current regulatory lists.
Mutagenicity	Not classified as mutagen. Verify from ECHA/supplier toxicological data.
Reproductive Toxicity	Classified Repr. 2 (H361). Suspected of damaging fertility or the unborn child.
Specific Target Organ (Single)	Classified STOT SE 3 (H336). Target organ: CNS — drowsiness/dizziness.
Specific Target Organ (Repeat)	Classified STOT RE 1 (H372) and STOT RE 2 (H373). Causes/may cause damage to organs (peripheral nervous system) through prolonged or repeated exposure.
Aspiration Hazard	Classified Asp. Tox. 1 (H304). May be fatal if swallowed and enters airways.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 2 (H411) — toxic to aquatic life with long lasting effects. Obtain LC ₅₀ /EC ₅₀ /NOEC values from supplier, ECHA or PubChem where required for environmental risk assessment.
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Persistence / Degradability	Hexane is expected to be readily biodegradable under aerobic conditions. Verify supplier or ECHA data before assuming ready biodegradability for regulatory purposes.
Bioaccumulation	Log Kow = 3.90 — moderate bioaccumulation potential. Use verified BCF data where available for regulatory submissions.
Mobility in Soil	Highly volatile; low solubility in water. Likely to partition to air from soil/water. Floats on water. 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 allow to enter drains, sewers or watercourses. Do not burn in open.
Contaminated Packaging	Empty containers may retain flammable vapour residues; treat as hazardous until cleaned or certified empty by an approved contractor. Dispose per local packaging waste regulations.
Indian Regulations	Handle and dispose in accordance with the Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2016 and applicable CPCB / SPCB requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1208	UN 1208	UN 1208
Proper Shipping Name	HEXANES	HEXANES	Hexanes
Class	3	3	3
Packing Group	II	II	II
Marine Pollutant	Verify (aquatic hazard present — confirm against current IMDG list)	Yes (confirm from current IMDG/supplier data)	—

Transport under ADR Class 3 (Flammable Liquids), PG II, UN 1208. UN-certified packaging required for international transport. Label with Class 3 placard, UN 1208, PG II and product name. Tunnel restriction: D/E (ADR) — verify current edition. IMDG EmS: F-E, S-E. Follow applicable carrier/mode requirements. Verify current edition of ADR/IMDG/IATA-DGR before shipment.



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SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled per GHS/CLP classification in Section 2. Observe REACH registration, safety data sheet and restriction requirements (REACH Annex II). Comply with applicable VOC directive requirements.
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 (1989, amended), Factories Act, Environment Protection Act, Hazardous Wastes Rules 2016, and applicable pollution-control and transport requirements (CMVR/IMDG equivalent). Verify state PCB requirements.
Canada WHMIS / HPR	Classify/label under WHMIS 2015/HPR using Section 2 classification. Canadian sale requires bilingual SDS/label and ingredient disclosure per HPR.
Australia (AICS)	Check inventory status before export or import into Australia.
China (GB Standards)	Apply applicable GB/T SDS and classification requirements where marketed in China.
Middle East / GCC	Observe applicable GHS-aligned local requirements.
Other Jurisdictions	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions in the destination 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 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

- H225 — Highly flammable liquid and vapour



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- H315 — Causes skin irritation
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- H317 — May cause an allergic skin reaction
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- H319 — Causes serious eye irritation
-
- H336 — May cause drowsiness or dizziness
-
- 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
-
- H411 — Toxic to aquatic life with long lasting effects
-