

**SAFETY DATA SHEET (SDS)**

Acetone

Acetone

GHS Compliant • Rev 1.0 • Prepared: April 2026

GHS02 Flammable Liquid	GHS07 Eye Irritant / STOT SE	
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SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Acetone
Product Type	Ketone solvent
Chemical Family	Ketone
CAS No. (Acetone)	67-64-1
CAS No. (Other Component)	N/A
Intended Use	Industrial solvent, cleaning agent and process chemical.
Restrictions on Use	Industrial / professional use only.
Manufacturer / Supplier	Supreme Petro Chemicals Limited
Address	Periyamet, Chennai - 600 003, Tamil Nadu, India
Emergency Contact	Sudarshan - 8197947045; Sanketh - 8608780096
Email	admin@supremepetrochemicals.com
SDS Revision Date	April 2026
SDS Version	1.0
Product Page URL	https://www.supremepetrochemicals.com/products/acetone

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; EUH066	
Flammable Liquids	Category 2 — H225: Highly flammable liquid and vapour
Skin Irritation	EUH066 - Repeated exposure may cause skin dryness or cracking.
Eye Irritation	Category 2 - H319: Causes serious eye irritation.
Skin Sensitisation	Not classified



Reproductive Toxicity	Not classified for reproductive toxicity.
Specific Target Organ (STOT-SE)	Category 3 — H336: May cause drowsiness or dizziness
Aspiration Hazard	Not classified as an aspiration hazard under GHS.
Aquatic Hazard (Chronic)	Not classified as hazardous to the aquatic environment.

Signal Word	DANGER
GHS Pictograms	GHS02 (Flame) GHS07 (Exclamation Mark)

Hazard Statements:

- H225 — Highly flammable liquid and vapour
- H319 — Causes serious eye irritation
- H336 — May cause drowsiness or dizziness
- EUH066 — Repeated exposure may cause skin dryness or cracking
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Precautionary Statements (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 Statements (Response):

- 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.
- P312 — Call a POISON CENTER or doctor if you feel unwell.

Precautionary Statements (Storage & Disposal):

- 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 or concentration range	GHS Classification
Acetone	67-64-1	200-662-2	100	Flam. Liq. 2; Eye Irrit. 2; STOT SE 3; EUH066

Note: Percentages are by volume. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air and keep comfortable for breathing. If symptoms such as dizziness, headache, nausea, or drowsiness persist, seek medical attention.
Skin Contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, seek medical advice.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation continues.
Ingestion	Do not induce vomiting. Rinse mouth with water and seek immediate medical attention or poison centre guidance.
Note to Physician	Treat symptomatically. Monitor for central nervous system depression and respiratory irritation.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, carbon dioxide, or water spray/fog.
Unsuitable Media	Direct water jet on burning liquid.
Specific Hazards	Highly flammable liquid and vapour. Vapours may form explosive mixtures with air and travel to ignition sources.
Fire & Explosion Risk	Flammable vapours may form explosive mixtures with air, travel to ignition sources and flash back. Containers may rupture when heated. Use grounded/explosion-proof equipment.
Protective Equipment for Firefighters	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Cool exposed containers with water spray. Evacuate non-essential personnel and prevent run-off from entering drains.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Personal Precautions	Eliminate ignition sources, ensure ventilation, and wear suitable PPE. Avoid breathing vapours.
Environmental Precautions	Prevent release to drains, sewers, and waterways.
Containment Methods	Use non-sparking tools and absorb with inert, non-combustible material such as vermiculite or dry sand.
Clean-up Methods	Collect spill residue into sealed labelled containers for disposal by an authorized contractor.
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 well-ventilated areas. Ground and bond containers during transfer. Keep away from heat, sparks, open flames, and hot surfaces. Do not smoke.
Hygiene	Wash hands after handling. Remove contaminated clothing before re-use. Do not eat, drink, or smoke when using this product.
Storage Conditions	Store tightly closed in a cool, dry, well-ventilated place designed for flammable liquids.
Storage Temperature	Below 30 °C preferred.
Incompatible Materials	Strong oxidizing agents, strong acids, strong bases, and reactive halogens.
Packaging	Store in approved tightly closed containers suitable for flammable liquids. Keep containers grounded during transfer.
Segregation	Segregate from oxidizers, acids, food, and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OEL (8h TWA)	STEL (15 min)	Standard	Notes
Acetone	Use verified local OEL if established; otherwise ALARA/good industrial hygiene	Use verified local STEL/ceiling if established	OSHA/NIOSH/ACGIH/EU/UK/India	CAS 67-64-1; supplier/regional OEL confirmation required.



Engineering Controls	Use closed handling/local exhaust for dust, mist, vapour or aerosol. Use explosion-proof ventilation and grounding for flammable liquids.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN respirator: organic vapour, acid gas, ammonia, or P95/P100 particulate cartridge as applicable. Use SCBA for emergencies.
Hand Protection	Wear compatible chemical-resistant gloves, e.g. nitrile, butyl, neoprene, PVC or laminate; select thickness/breakthrough time for the product and task.
Eye/Face Protection	Wear EN 166/ANSI Z87.1 chemical splash goggles; add face shield for splash, corrosive, dust, molten or pressure-transfer risk.
Body Protection	Wear chemical-resistant clothing/apron and safety footwear; use antistatic PPE where flammable vapours may occur.
Hygiene Measures	No smoking, eating, or drinking in work area. Wash hands before breaks and after work. Eyewash station and safety shower within 10 seconds travel.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Fragrant, mint-like solvent odour
Odour Threshold	Not established
pH	Not applicable unless supplied/used as an aqueous solution. For acids, alkalis, salts, surfactants and aqueous grades, verify pH from supplier COA/SDS before release.
Melting/Freezing Point	-95 °C
Boiling Point / Range	56.1 °C (133 °F)
Flash Point	0 °F (about -18 °C)
Auto-ignition Temperature	465 °C (approx.)
Flammability Limits	Lower (LEL): 2.5% v/v Upper (UEL): 12.8% v/v
Vapour Pressure	180 mmHg at 20 °C
Vapour Density	Heavier than air
Relative Density	0.79 at 20 °C
Solubility in Water	Miscible
Log Pow (Partition Coeff)	-0.24 (approx.)
Evaporation Rate	Fast
Viscosity	Low viscosity mobile liquid
VOC Content	100% VOC



Reactivity	Stable under normal conditions; highly flammable vapour-air mixture
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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under normal ambient conditions.
Conditions to Avoid	Heat, sparks, open flames, static discharge, and temperatures above the flash point.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride ($AlCl_3$) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating fumes may be formed in fire.
Hazardous Reactions	No hazardous polymerisation under normal conditions.
Possibility of Hazardous React.	Will not occur under normal storage and use.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity; ingestion may cause gastrointestinal upset and central nervous system depression.
Acute Dermal Toxicity	Low acute dermal toxicity; repeated or prolonged contact may dry the skin.
Acute Inhalation Toxicity	High vapour concentrations may cause headache, dizziness, nausea, and drowsiness.
Skin Irritation	EUH066 - Repeated exposure may cause skin dryness or cracking.
Eye Irritation	Causes serious eye irritation (H319).
Sensitisation	Not expected to cause skin sensitisation.
Specific Target Organ (Single)	STOT SE 3 - may cause drowsiness or dizziness.
Specific Target Organ (Repeat)	Repeated excessive exposure may cause CNS effects and dermatitis.
Reproductive Toxicity	Not classified for reproductive toxicity.
Aspiration Hazard	Not classified as an aspiration hazard.
Carcinogenicity	Not classifiable as to its carcinogenicity to humans.
Mutagenicity	Not classified as mutagenic.

**SECTION 12 ECOLOGICAL INFORMATION**

Aquatic Toxicity (Acute)	No aquatic classification identified in Section 2 from reviewed data. Numeric ecotoxicity was not universally verified; avoid release.
Aquatic Toxicity (Chronic)	No chronic aquatic classification identified in Section 2. Obtain supplier/ecotoxicity data if needed for registration or export.
Persistence / Degradability	Use supplier, ECHA or PubChem data where available. If not verified, do not assume ready biodegradability.
Bioaccumulation	Use verified log Kow/BCF data where available; UVCB/petroleum/surfactant materials need supplier formulation data.
Mobility in Soil	Assess from solubility, adsorption potential and product form. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment.
Environmental Regulations	Dispose and manage under applicable local environmental and waste regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through a licensed waste contractor in accordance with local regulations.
Contaminated Packaging	Empty containers may retain flammable vapours; treat as hazardous until properly cleaned or disposed.
European Waste Code	Use the appropriate waste code based on local regulations and actual waste stream.
Indian Regulations	Follow local hazardous waste and pollution control requirements.

SECTION 14 TRANSPORT INFORMATION

Parameter	UN / ADR (Road)	IMDG (Sea)	IATA (Air)	Notes
UN Number	UN 1090	UN 1090	UN 1090	Acetone
Proper Shipping Name	ACETONE	ACETONE	ACETONE	
Class	3	3	3	Flammable Liquid
Packing Group	II	II	II	Medium danger



Marine Pollutant	No	No	—	
Tunnel Restriction	D/E	—	—	ADR 2023
EmS (Sea)	—	F-E, S-D	—	IMDG Code
Special Provisions	Transport in accordance with applicable ADR / IMDG / IATA requirements.	—	A3, A72	IATA DGR

Packaging: approved compatible container appropriate to acetone. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 1090, PG II, and product name.

SECTION 15 REGULATORY INFORMATION

EU / REACH	Observe REACH and CLP requirements for classification, labelling and exposure management.
EU CLP Regulation	Classified and labelled in accordance with EC 1272/2008 (CLP).
EU Directive	Observe applicable VOC and workplace chemical safety requirements.
OSHA (USA)	Complies with OSHA HCS/HazCom (29 CFR 1910.1200) format and hazard communication rules.
India	Observe applicable Indian MSIHC, workplace, storage, transport, pollution-control and hazardous-waste requirements.
China (GB Standards)	Use the applicable GB/T SDS and classification requirements where marketed.
Middle East / GCC	Observe local GHS-aligned workplace and transport requirements.
TSCA (USA)	Verify TSCA inventory/SNUR status before US import or distribution; mixture/UVCB status may require supplier confirmation.
Australia (AICS)	Listed on the Australian Inventory of Chemical Substances.
Special Notes	Not applicable to acetone.
Canada WHMIS / HPR	Classify/label under WHMIS 2015/HPR using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure.
Regulatory Scope Limitation	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions.

SECTION 16 OTHER INFORMATION

**Full Text of H-Statements:**

- H225 — Highly flammable liquid and vapour
- H319 — Causes serious eye irritation
- H336 — May cause drowsiness or dizziness
- EUH066 — Repeated exposure may cause skin dryness or cracking
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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 SDS format
Revision Date	22 April 2026
Version	1.0
Replaces Version	N/A — Initial Issue
Key Sources	SPC product page; original SPC SDS template; consolidated SDS audit CSV dated 27 April 2026; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references where available. Accessed April 2026.
Audit Correction Note	Corrected from audit findings. Verification-required items need supplier formulation, test or regulatory data before market-specific release.

DISCLAIMER

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