



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Acetic Acid *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 64-19-7

EC 200-580-7

SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS05

Corrosive

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

Product Name	Acetic Acid
Product Type	Organic acid
Chemical Family	Carboxylic acid
CAS No.	64-19-7
EC No.	200-580-7
Intended Use	Industrial chemical intermediate, solvent and process acid.
Restrictions on Use	Industrial / professional use only.
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/acetic-acid
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3 (H226); Skin Corr. 1A (H314)

GHS Classification	Flammable Liquids — Category 3 (H226); Skin Corrosion/Eye Damage — Category 1A (H314)
Signal Word	DANGER



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GHS Pictograms

GHS02 (Flame) | GHS05 (Corrosion)

Other GHS Hazard Classes

Not classified for unlisted hazard classes based on reviewed public/source data.

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H314 — Causes severe skin burns and eye damage

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.
- 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.



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- 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
Acetic Acid	64-19-7	200-580-7	100	Flam. Liq. 3 (H226); Skin Corr. 1A (H314)

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air immediately. Keep 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 water and soap for at least 15 minutes. Seek medical attention if irritation or burns develop.
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.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek immediate medical advice / call POISON CENTER.
Note to Physician	Corrosive acid — treat burns and respiratory irritation symptomatically based on exposure route and product hazards. No specific antidote.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO ₂), or water spray/fog.
Unsuitable Media	Direct high-pressure water jet — may spread the material.
Specific Hazards	Flammable vapours may form explosive mixtures with air and travel to ignition sources, causing flash-back. Containers may rupture or explode when heated. Combustion may produce carbon oxides and irritating/toxic vapours.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).



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Special Procedures	Evacuate non-essential personnel. Cool fire-exposed containers with water spray. Prevent contaminated fire-fighting run-off from entering drains and waterways. Use grounded/explosion-proof equipment.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate area. Ensure adequate ventilation. Wear acid-resistant PPE (gloves, goggles, face shield, chemical-resistant suit). Keep away from ignition sources.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify environmental authorities if significant release occurs.
Containment / Clean-up	Contain spill with inert absorbent material (sand, vermiculite, dry earth). Neutralise residues only under controlled conditions. Collect into labelled containers for disposal through an approved waste 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 corrosion-resistant equipment and local exhaust ventilation. Keep containers tightly closed. Keep away from bases, oxidisers and all ignition sources.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed, compatible corrosion-resistant containers in a well-ventilated, cool, dry area. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides), strong bases, halogens, concentrated acids. Reactive with aluminium chloride (AlCl ₃) at 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	Acetic Acid (CAS 64-19-7): use verified local OEL/STEL (OSHA/NIOSH/ACGIH/EU/UK/India) if established; otherwise apply ALARA / good industrial hygiene principles. Supplier/regional OEL confirmation required.
Engineering Controls	Use closed handling systems and/or local exhaust ventilation for vapours, mist or aerosol. Use explosion-proof ventilation and bonding/grounding for flammable liquid handling.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour / acid gas cartridge. Use SCBA for emergency or high-concentration situations.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile, butyl, neoprene, PVC or laminate) – select thickness/breakthrough time appropriate for task. Eyes/face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield for splash or pressure-transfer risk. Body: chemical-resistant clothing/apron, safety footwear; antistatic PPE where flammable vapours may occur. Provide eyewash station and emergency safety shower at point of use. Wash after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Sharp vinegar-like odour
Odour Threshold	Not established
pH	Strongly acidic (approx. 2.4 at 1% w/v solution)
Melting / Freezing Point	16.6 °C
Boiling Point / Range	118 °C at 1 atm
Flash Point	39 °C (closed cup)
Auto-ignition Temperature	485 °C
Flammability Limits	LEL 4.0% v/v UEL 19.9% v/v
Vapour Pressure	15.7 mmHg at 25 °C
Vapour Density (air = 1)	2.1
Relative Density	1.05 at 20 °C
Solubility in Water	Miscible in all proportions
Log Pow (Partition Coeff.)	-0.17
Evaporation Rate	Moderate (relative to n-butyl acetate = 1)



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Viscosity	Low viscosity liquid
VOC Content	100% VOC

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, open flames, sparks, ignition sources, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids, strong bases and halogens. Reactive with aluminium chloride (AlCl ₃) under elevated temperature.
Hazardous Decomposition	Carbon monoxide (CO) and carbon dioxide (CO ₂), and irritating/toxic organic fumes may be formed in fire or thermal decomposition.
Hazardous Reactions	No hazardous polymerisation. Will not occur under normal conditions when stored and handled correctly.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Corrosive to oral mucosa and gastrointestinal tract. Numeric LD ₅₀ data: refer to supplier SDS or ECHA/PubChem for confirmed endpoint values.
Acute Dermal Toxicity	Corrosive to skin on contact. Numeric LD ₅₀ data: refer to supplier SDS or ECHA/PubChem for confirmed endpoint values.
Acute Inhalation Toxicity	Vapours irritate and can be corrosive to the respiratory tract. Numeric LC ₅₀ data: refer to supplier SDS or ECHA/PubChem for confirmed endpoint values.
Skin Irritation	Classified Skin Corr. 1A (H314) — causes severe skin burns.
Eye Irritation	Classified Eye Damage 1 (included under H314) — causes serious eye damage.
Sensitisation	Not classified as a skin or respiratory sensitiser based on available data.
Carcinogenicity	Not classified as a carcinogen (IARC/NTP/OSHA). Endpoint-specific assessment — see Section 2 classification. Additional numeric data requires supplier/test confirmation.
Mutagenicity	Not classified as a mutagen based on available data. Endpoint-specific assessment — see Section 2 classification.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	No acute or chronic aquatic hazard classification identified in Section 2 from reviewed data. Numeric ecotoxicity data: refer to ECHA/PubChem; avoid uncontrolled release.
Persistence / Degradability	Acetic acid is readily biodegradable under aerobic conditions. Do not assume ready biodegradability without supplier or test confirmation.
Bioaccumulation	Low bioaccumulation potential (Log Pow -0.17); BCF expected to be low.
Mobility in Soil	Highly water-soluble and mobile; assess from solubility and adsorption potential. 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/residues through an authorised waste contractor in accordance with local hazardous waste regulations. Do not pour down drains or into watercourses.
Contaminated Packaging	Empty containers may retain hazardous residues; handle as hazardous waste until thoroughly cleaned or disposed of through an approved contractor.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules and state Pollution Control Board requirements. Assign waste code according to actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 2789	UN 2789	UN 2789
Proper Shipping Name	ACETIC ACID, GLACIAL	ACETIC ACID, GLACIAL	ACETIC ACID, GLACIAL
Class	8 (subsidiary risk: 3)	8 (subsidiary risk: 3)	8 (subsidiary risk: 3)
Packing Group	II	II	II
Marine Pollutant	No	No	No



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Tunnel restriction code (ADR): E, EmS (IMDG): F-E, S-C. Packaging: UN-certified, approved compatible container; drum must be labelled with Class 8 (subsidiary 3) placard, UN 2789, PG II, and product name. Verify current carrier rules before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH and CLP requirements where applicable. Classified and labelled according to GHS/CLP classification listed 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 MSIHC Rules, Factories Act, Hazardous and Other Wastes Rules, storage, transport, pollution-control and hazardous-waste requirements.
Other Jurisdictions	China: apply GB/T SDS and classification requirements where marketed. Australia (AICS): check inventory status before export or import. Canada (WHMIS 2015/HPR): classify/label under WHMIS using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. Middle East/GCC: observe applicable GHS-aligned local requirements. 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; original SPC SDS template; consolidated SDS audit CSV dated 27 May 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 May 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.



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FULL TEXT OF H-STATEMENTS

- H226 — Flammable liquid and vapour
 - H314 — Causes severe skin burns and eye damage
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UN GHS REV.11 (2025) / REACH / OSHA HCS /
WHMIS

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