



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)

Acrylic Acid *SDS*

CAS **79-10-7** EC **201-177-9** SIGNAL WORD **DANGER**

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

GHS02

Flammable Liquid

GHS05

Corrosive

GHS07

Harmful / Irritant

GHS09

Environmental
Hazard

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

Product Name	Acrylic Acid
Product Type	Unsaturated carboxylic acid
Chemical Family	Acrylic monomer
CAS No.	79-10-7
EC No.	201-177-9
Intended Use	Chemical intermediate for polymers, resins and coatings.
Restrictions on Use	Industrial / professional use only; polymerization control required.
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/acrylic-acid
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; Acute Tox. 4 (oral, dermal, inhalation); Skin Corr. 1A; STOT SE 3;
Aquatic Acute 1

Flammable Liquids	Category 3 — H226: Flammable liquid and vapour
Acute Toxicity (Oral)	Category 4 — H302: Harmful if swallowed



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Acute Toxicity (Dermal)	Category 4 — H312: Harmful in contact with skin
Acute Toxicity (Inhalation)	Category 4 — H332: Harmful if inhaled
Skin Corrosion	Category 1A — H314: Causes severe skin burns and eye damage
STOT Single Exposure	Category 3 — H335: May cause respiratory irritation
Aquatic Hazard (Acute)	Category 1 — H400: Very toxic to aquatic life
Other GHS hazard classes	Not classified for unlisted hazard classes based on reviewed public/source data.
Signal Word	DANGER
GHS Pictograms	GHS02 (Flame) GHS05 (Corrosion) GHS07 (Exclamation Mark) GHS09 (Environment)

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H314 — Causes severe skin burns and eye damage
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H400 — Very toxic to aquatic life

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.



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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.
- 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
Acrylic Acid	79-10-7	201-177-100 9		Flam. Liq. 3; Acute Tox. 4 (oral, dermal, inhal.); Skin Corr. 1A; STOT SE 3; Aquatic Acute 1

Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove victim immediately to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration. Seek immediate medical attention. Vapours are corrosive and toxic.
Skin Contact	Remove contaminated clothing immediately. Wash affected skin thoroughly with large amounts of water and soap for at least 15 minutes. Seek medical attention if symptoms persist or burns are evident.
Eye Contact	Rinse cautiously with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. Seek immediate medical attention.



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Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately. Do NOT give milk or other food.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Corrosive agent — burns to mucous membranes possible. Supportive therapy indicated.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical powder, carbon dioxide (CO ₂), water fog/mist.
Unsuitable Media	Direct high-pressure water jet — may spread the material and intensify fire.
Specific Hazards	Flammable vapours may form explosive mixtures with air; vapours are heavier than air and may travel to distant ignition sources and flash back. Heat can trigger hazardous exothermic polymerization and container rupture. Combustion produces carbon oxides and irritating/toxic fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Use grounded/explosion-proof equipment.
Special Procedures	Evacuate non-essential personnel. Cool containers with water spray from a safe distance to prevent pressure build-up. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate non-essential personnel. Ventilate area thoroughly. Eliminate all ignition sources. Prevent uncontrolled polymerization. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify relevant authorities if significant environmental contamination occurs.
Containment / Clean-up	Contain spill with inert absorbent material (sand, earth, vermiculite). Collect material into labelled, compatible containers for disposal through an approved waste contractor. Wash spill area with water.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal and Section 15 for regulatory information.



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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Handle under inhibitor control with adequate ventilation. Avoid heat, contamination, direct sunlight and contact with incompatible materials. Use grounded/explosion-proof equipment and non-sparking tools.
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. Inspect containers regularly for leakage or damage. Keep inhibitor levels as specified by the supplier.
Storage Temperature	Store at ambient temperature (below 30°C) unless supplier instructions specify otherwise. Avoid temperature extremes.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, chlorine, halogens). Concentrated acids. Avoid contact with aluminium chloride (AlCl ₃) at elevated temperature.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals. Store away from heat sources and direct sunlight.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Acrylic Acid (CAS 79-10-7): Use verified local OEL (8h TWA) and STEL/ceiling if established (OSHA/NIOSH/ACGIH/EU/UK/India). Apply ALARA/good industrial hygiene practices where no OEL is set. Supplier/regional OEL confirmation required.
Engineering Controls	Use closed handling systems and local exhaust ventilation for vapour, mist or aerosol control. Use explosion-proof ventilation and grounding/bonding for flammable liquids. Provide emergency eyewash and safety shower where appropriate.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour/acid gas cartridge (or P95/P100 particulate). Use SCBA for emergencies or unknown concentrations.
Hand / Eye / Skin	Gloves: compatible chemical-resistant gloves (nitrile, butyl, neoprene, PVC or laminate); select appropriate thickness and breakthrough time. Eye/Face: EN 166/ANSI Z87.1 chemical splash goggles; add face shield where splash risk exists. Body: chemical-



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resistant clothing/apron and safety footwear; antistatic PPE where flammable vapours may occur.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless liquid
Odour	Acrid, pungent odour
Odour Threshold	Not established
pH	Acidic (concentrated liquid is strongly acidic)
Melting / Freezing Point	13°C
Boiling Point / Range	141°C
Flash Point	50°C (closed cup)
Auto-ignition Temperature	438°C
Flammability Limits	LEL 2.4% v/v UEL 8.0% v/v
Vapour Pressure	4 mmHg at 20°C
Vapour Density (air = 1)	2.5
Relative Density	1.05 at 20°C
Solubility in Water	Miscible
Log Pow (Partition Coeff.)	0.35
Evaporation Rate	Moderate
Viscosity	Low viscosity liquid
VOC Content	100% VOC

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions when inhibitor is present at adequate levels.
Conditions to Avoid	Avoid heat, ignition sources, contamination (particularly peroxides, metal salts), direct sunlight and contact with incompatible materials. Loss of inhibitor can trigger runaway polymerization.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) at elevated temperature may promote exothermic reaction.
Hazardous Decomposition	Carbon monoxide, carbon dioxide and irritating or toxic fumes may be formed in fire or thermal decomposition.
Hazardous Reactions	Exothermic polymerization can occur if uninhibited, heated or contaminated. Will not occur under normal conditions when stored



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and handled correctly with inhibitor maintained.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Harmful if swallowed (H302). Classified Acute Tox. 4 (oral). LD50 (rat, oral): ~340 mg/kg (reference data). Corrosive to mucous membranes.
Acute Dermal Toxicity	Harmful in contact with skin (H312). Classified Acute Tox. 4 (dermal). LD50 (rat, dermal): ~280 mg/kg (reference data). Causes severe skin burns (H314, Skin Corr. 1A).
Acute Inhalation Toxicity	Harmful if inhaled (H332). Classified Acute Tox. 4 (inhalation). Vapours are corrosive and irritate the respiratory tract (H335, STOT SE 3). LC50/LCLo data requires supplier/test confirmation.
Skin Irritation	Causes severe skin burns and eye damage (H314, Skin Corr. 1A) — corrosive; irritation classification superseded by corrosion classification.
Eye Irritation	Causes severe eye damage (included in H314, Skin Corr. 1A). Serious eye damage / eye irritation classification superseded.
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed data. Supplier/test confirmation required.
Carcinogenicity	Not classified as a carcinogen under GHS/CLP based on reviewed data. Additional numeric endpoint data requires supplier/test confirmation.
Mutagenicity	Not classified as a mutagen under GHS/CLP based on reviewed data. Additional numeric endpoint data requires supplier/test confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Very toxic to aquatic life (H400, Aquatic Acute 1). Acute aquatic toxicity: LC50/EC50 values indicate high acute toxicity. Prevent release to water bodies. Obtain verified LC50/EC50/NOEC values from supplier, ECHA or PubChem where required.
Persistence / Degradability	Acrylic acid is expected to be readily biodegradable. Do not assume ready biodegradability without supplier or ECHA verification.
Bioaccumulation	Low bioaccumulation potential based on Log Pow 0.35. Use verified log Kow/BCF data where available.



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Mobility in Soil	Miscible with water; mobile in soil and groundwater. 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 discharge to drains, water bodies or soil.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until thoroughly cleaned or disposed of by an approved method. Assign waste code according to actual process and local regulation.
Indian Regulations	Follow applicable Indian Hazardous Wastes (Management, Handling and Transboundary Movement) Rules and State Pollution Control Board (SPCB) requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 2218	UN 2218	UN 2218
Proper Shipping Name	ACRYLIC ACID, STABILIZED	ACRYLIC ACID, STABILIZED	ACRYLIC ACID, STABILIZED
Class	8 (subsidiary risk 3)	8 (subsidiary risk 3)	8 (subsidiary risk 3)
Packing Group	II	II	II
Marine Pollutant	Verify — likely Yes (aquatic hazard present)	Verify — likely Yes if IMDG criteria met	—

ADR tunnel restriction: E. IMDG EmS: F-E, S-C. UN-certified drum required for international transport; label with Class 8 placard, UN 2218, PG II and product name. Verify current carrier rules and marine pollutant status from IMDG/supplier data before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to the GHS/CLP classification in Section 2. Observe REACH and CLP requirements where applicable.
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution.



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India	Observe applicable Indian MSIHC Rules, Factories Act, Environment Protection Act, Hazardous Waste Rules and SPCB/CPCB requirements. Comply with applicable VOC and storage regulations.
Canada (WHMIS / HPR)	Classify and label under WHMIS 2015/HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure.
China (GB Standards)	Use applicable GB/T SDS and classification requirements where marketed.
Australia (AICS)	Check AICS inventory status before export or import.
Other Jurisdictions	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and applicable 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

- H226 — Flammable liquid and vapour
- H302 — Harmful if swallowed
- H312 — Harmful in contact with skin
- H314 — Causes severe skin burns and eye damage
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H400 — Very toxic to aquatic life