

SAFETY DATA SHEET

ACRYLIC ACID

CAS No.: 79-10-7

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Acrylic Acid
CAS Number	79-10-7
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
HAZARD CLASSIFICATION • Flammable liquid - Category 3 • Acute toxicity, oral - Category 4 • Acute toxicity, dermal - Category 4 • Acute toxicity, inhalation - Category 4 • Skin corrosion - Category 1A • Specific target organ toxicity, single exposure - Category 3 (respiratory irritation) • Acute hazard to the aquatic environment - Category 1	
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 STATEMENTS • P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking • P233 - Keep container tightly closed • P240 - Ground/bond container and receiving equipment • P261 - Avoid breathing vapours or mist • P271 - Use only outdoors or in a well-ventilated area • P280 - Wear protective gloves/eye protection/face protection • P303+P361+P353 - IF ON SKIN: remove contaminated clothing immediately and rinse skin with water • P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing • P310 - Immediately call a POISON CENTER or doctor • P370+P378 - In case of fire, use extinguishing media suitable for the surrounding fire • P403+P235 - Store in a well-ventilated place and keep cool • P410+P403 - Protect from sunlight and store in a well-ventilated place	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Acrylic Acid
CAS Number	79-10-7
Physical State	Liquid
Appearance / Odour	Colorless liquid with an acrid, characteristic pungent odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing and get immediate medical attention.
Skin Contact	Remove contaminated clothing immediately and rinse skin thoroughly with water for at least 15 minutes; seek medical attention.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing; seek medical attention if respiratory irritation or symptoms occur.
Ingestion	Do NOT induce vomiting; rinse mouth and give water to drink if conscious; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam, or water spray/fog to cool exposed containers.
Unsuitable Extinguishing Media	Avoid a straight/high-pressure water stream, which can spread the fire; do not seal or fully enclose leaking/heated containers.
Special Hazards	Flammable vapor-air mixtures can form; uninhibited or heat-exposed acrylic acid can undergo rapid, exothermic self-polymerization that may become violent or explosive, especially if the polymerization inhibitor is depleted or the stabilizing oxygen supply is cut off; keep containers cool with water spray, evacuate the area, and fight large fires from a safe distance; combustion produces carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate ignition sources, ventilate the area, contain the spill with inert absorbent, prevent entry into drains or waterways (very toxic to aquatic life), avoid contact and inhalation, and collect residues in vented (not sealed) containers due to polymerization/pressure risk.
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7. HANDLING AND STORAGE

Handling Precautions	Use only with adequate ventilation, keep away from heat/sparks/open flame and oxidizers, use grounded/bonded equipment, avoid contact with skin/eyes/clothing, and ensure the product remains properly inhibited with adequate oxygen headspace and controlled temperature to prevent hazardous polymerization.
Storage Conditions	Store in a cool (typically 15-25 C, avoiding both freezing and excessive heat), well-ventilated, flammables-rated area away from direct sunlight, oxidizers and polymerization initiators; monitor inhibitor (e.g., MEHQ) content and headspace oxygen per supplier guidance; use vented, corrosion-resistant containers and avoid prolonged storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA PEL / ACGIH TLV ~2 ppm TWA (skin notation); use chemical-resistant gloves (e.g., Viton, butyl rubber), chemical splash goggles/face shield, and a NIOSH-approved respirator with explosion-proof local exhaust ventilation where vapor exceeds exposure limits.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid with an acrid, characteristic pungent odor.
Boiling Point	~139 C
Melting Point	~13 C (freezing point; readily solidifies near normal ambient temperatures)
Flash Point	~46-54 C (closed cup)
Density / Specific Gravity	~1.05 g/cm ³ at 20 C
Water Solubility	Miscible with water in all proportions
pH Value	~1-2.5 (dilute aqueous solution; strongly acidic)

10. STABILITY AND REACTIVITY

Stability	Stable when properly inhibited and stored per specification; exposure to heat, light, oxidizers or peroxide contamination, or loss of inhibitor/oxygen, can trigger rapid, exothermic, potentially violent self-polymerization.
Incompatible Materials	Oxidizers, strong acids and bases, amines, polymerization initiators/catalysts, peroxides, and many metals (which can catalyze polymerization or react with the acid).
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion; uncontrolled polymerization releases significant heat and can generate high pressure.

11. TOXICOLOGICAL INFORMATION

Summary	Corrosive, causing severe skin burns and eye damage; harmful if swallowed, inhaled or absorbed through skin, with vapor irritating to the eyes and respiratory tract; oral toxicity is moderate (LD50, rat, in the low hundreds to low thousands of mg/kg range depending on study); repeated exposure may cause respiratory tract irritation; not classified as a human carcinogen based on available data.
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12. ECOLOGICAL INFORMATION

Summary	Very toxic to aquatic organisms in acute exposure testing (fish/invertebrate LC50/EC50 values in the low mg/L range); readily biodegradable but should not be released to the environment due to its acute aquatic toxicity.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as hazardous waste through a licensed waste management/incineration facility in accordance with local regulations; do not discharge to sewers or waterways; avoid sealed-container storage of waste due to polymerization risk.
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14. TRANSPORT INFORMATION

UN Number	UN2218
Transport Hazard Class	Class 8 (Corrosive), subsidiary risk Class 3 (Flammable liquid)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Reactive industrial monomer classified as flammable, corrosive and toxic under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN2218 'Acrylic acid, stabilized', Class 8 (subsidiary 3), Packing Group II; shipments require verified inhibitor content and temperature-controlled handling to prevent hazardous polymerization.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
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Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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