SAFETY DATA SHEET

PROPIONIC ACID

CAS No.: 79-09-4

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	Propionic Acid
CAS Number	79-09-4
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)
- Skin Corrosion (Category 1B)
- Serious Eye Damage (Category 1)
- STOT Single Exposure (Category 3 - respiratory irritation)

HAZARD STATEMENTS

- H226 - Flammable liquid and vapour
- H314 - Causes severe skin burns and eye damage
- H335 - May cause respiratory irritation

PRECAUTIONARY STATEMENTS

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 - Keep container tightly closed
- P260 - Do not breathe vapours
- P280 - Wear protective gloves/eye protection/face protection
- P303+P361+P353 - If on skin: remove contaminated clothing and rinse skin with water
- P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes; remove contact lenses if present
- P310 - Immediately call a poison center/doctor
- P370+P378 - In case of fire: use dry chemical, CO2, or alcohol-resistant foam
- P403+P235 - Store in a well-ventilated place; keep cool

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Propionic Acid
CAS Number	79-09-4
Physical State	Liquid
Appearance / Odour	Colorless to slightly yellow liquid with a sharp, pungent, rancid/cheese-like odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse immediately and continuously with plenty of water for at least 15 minutes, removing contact lenses if present, and obtain immediate medical attention as this is a corrosive material.
Skin Contact	Remove contaminated clothing immediately and rinse skin thoroughly with plenty of water for at least 15 minutes; seek medical attention for any burns.
Inhalation	Remove to fresh air immediately, keep at rest in a comfortable breathing position, and seek medical attention if breathing is difficult or irritation persists.
Ingestion	Do not induce vomiting; rinse mouth with water, give water to drink if conscious, and obtain immediate medical attention due to corrosive burns risk.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam, or water spray/fog.
Unsuitable Extinguishing Media	Do not use a high-volume/high-pressure straight water jet as it may spread the fire.
Special Hazards	Combustible liquid that can form flammable/explosive vapour-air mixtures; vapours are heavier than air and may travel to an ignition source; thermal decomposition releases irritating and corrosive fumes (CO, CO2).

6. ACCIDENTAL RELEASE MEASURES

Measures	Evacuate non-essential personnel, eliminate ignition sources, ventilate the area, and contain the spill with inert absorbent (sand, vermiculite, diatomaceous earth) or neutralize with soda ash/lime; wear full corrosion-resistant PPE and prevent entry into drains, soil, or waterways.

7. HANDLING AND STORAGE

Handling Precautions	Handle with adequate local exhaust ventilation or in a fume hood, avoid contact with skin and eyes, keep away from heat, sparks and open flame, use non-sparking tools, and bond/ground containers during transfer.
Storage Conditions	Store in a cool, dry, well-ventilated area in tightly closed, corrosion-resistant containers, away from oxidizers, strong bases, heat, and ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	ACGIH TLV is 10 ppm (TWA); wear chemical splash goggles, a face shield, acid-resistant gloves (e.g., neoprene, nitrile, butyl rubber), and impervious protective clothing, with a NIOSH-approved respirator if ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless to slightly yellow liquid with a sharp, pungent, rancid/cheese-like odor.
Boiling Point	141
Melting Point	-21 (-20.8)
Flash Point	54 (closed cup)
Density / Specific Gravity	0.993 g/cm3 at 20C (SG ~0.99)
Water Solubility	Miscible with water in all proportions
pH Value	~2.5 (1M aqueous solution); pKa 4.87

10. STABILITY AND REACTIVITY

Stability	Stable under normal storage and handling conditions; combustible.
Incompatible Materials	Strong oxidizers, strong bases/amines, and strongly reactive materials such as oleum and chlorosulfonic acid.
Hazardous Decomposition	Carbon monoxide, carbon dioxide, and irritating smoke/fumes on combustion.

11. TOXICOLOGICAL INFORMATION

Summary	Corrosive, causing severe skin burns and eye damage on contact; oral acute toxicity is low to moderate (rat LD50 approximately 2600-3500 mg/kg); repeated or prolonged vapour exposure may irritate the respiratory tract; not classified as a mutagen, carcinogen, or reproductive toxicant based on available data.

12. ECOLOGICAL INFORMATION

Summary	Readily biodegradable and of low bioaccumulation potential (log Kow approximately -0.33); can be harmful to aquatic organisms at elevated, undiluted concentrations but is not classified as an aquatic hazard under most notified GHS classifications.

13. DISPOSAL CONSIDERATIONS

Disposal Method	Neutralize where feasible and dispose of as hazardous/corrosive chemical waste through a licensed waste contractor in accordance with local, state, and federal regulations; do not discharge undiluted to sewers or waterways.

14. TRANSPORT INFORMATION

UN Number	UN1848 (aqueous solution, not more than 90% acid) / UN3463 (more than 90% acid)
Transport Hazard Class	8 (Corrosive), with subsidiary risk 3 (Flammable)
Packing Group	III (UN1848) or II (UN3463, concentrated grade)

15. REGULATORY INFORMATION

Notes	Listed on the TSCA (US) and REACH (EU) inventories; classified as corrosive and flammable under EU CLP; used as a mold/feed preservative and chemical intermediate - confirm any food/feed-grade regulatory requirements separately.

16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
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.

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