

SAFETY DATA SHEET

ACETIC ACID, GLACIAL (FOOD GRADE)

CAS No.: 64-19-7

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	Acetic Acid, Glacial (Food Grade)
CAS Number	64-19-7
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 • Skin corrosion - Category 1A • Serious eye damage - Category 1	
HAZARD STATEMENTS • H226 - Flammable liquid and vapour • H314 - Causes severe skin burns and eye damage	
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 • P260 - Do not breathe vapours or mist • 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 appropriate extinguishing media • P403+P235 - Store in a well-ventilated place and keep cool	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Acetic Acid, Glacial (Food Grade)
CAS Number	64-19-7
Physical State	Liquid (solidifies to ice-like crystals below ~16.6 C)
Appearance / Odour	Colorless liquid with a pungent, vinegar-like 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 with plenty of 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 symptoms occur.
Ingestion	Rinse mouth with water; do NOT induce vomiting; 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.
Unsuitable Extinguishing Media	Avoid a high-volume straight water stream, which can spread burning liquid.
Special Hazards	Vapor can form flammable/explosive mixtures with air and may travel along the ground to an ignition source; combustion produces carbon monoxide, carbon dioxide and corrosive fumes; cool exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Measures	Eliminate ignition sources, ventilate the area, contain the spill with inert absorbent (sand, vermiculite), neutralize cautiously with soda ash or lime, avoid contact and inhalation, and collect residues for disposal.
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7. HANDLING AND STORAGE

Handling Precautions	Use with adequate ventilation or local exhaust, keep away from heat/sparks/open flame, use grounded and bonded equipment, and wear appropriate PPE to avoid skin and eye contact.
Storage Conditions	Store in a cool, well-ventilated area rated for flammable liquids, away from oxidizers and heat sources, in tightly closed corrosion-resistant containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	OSHA PEL / ACGIH TLV ~10 ppm TWA (15 ppm STEL); use chemical-resistant gloves (e.g., butyl, nitrile), chemical splash goggles/face shield, and a NIOSH-approved respirator where vapor levels exceed exposure limits.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid (solidifies to ice-like crystals below ~-16.6 C)
Appearance / Odour	Colorless liquid with a pungent, vinegar-like odor.
Boiling Point	~118 C
Melting Point	~16.6 C (freezing point)
Flash Point	~39-40 C (closed cup)
Density / Specific Gravity	~1.05 g/cm3 at 20 C
Water Solubility	Miscible with water in all proportions
pH Value	~2.4 (0.1 mol/L solution); concentrated glacial acid is strongly acidic/corrosive

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions; combustible liquid.
Incompatible Materials	Strong oxidizers, strong bases, most metals (may release flammable hydrogen gas), chromic acid and peroxides.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion.

11. TOXICOLOGICAL INFORMATION

Summary	Corrosive, causing severe skin burns and eye damage; vapor is irritating to the respiratory tract; moderate oral toxicity (LD50, rat, roughly 3,300 mg/kg); not classified as a carcinogen, mutagen or reproductive toxicant.
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12. ECOLOGICAL INFORMATION

Summary	Readily biodegradable with low bioaccumulation potential; can be harmful to aquatic organisms at high concentration mainly through pH depression, but is not persistent in the environment.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Neutralize with dilute alkali (e.g., soda ash or lime) before disposal in accordance with local regulations; do not discharge concentrated acid directly to drains.
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14. TRANSPORT INFORMATION

UN Number	UN2789
Transport Hazard Class	Class 8 (Corrosive), subsidiary risk Class 3 (Flammable liquid)
Packing Group	II

15. REGULATORY INFORMATION

Notes	Food-grade material must meet FCC/JECFA/FSSAI purity specifications for use as food additive E260; classified as a flammable corrosive under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN2789, Class 8 (subsidiary 3), Packing Group II.
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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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