SAFETY DATA SHEET

ETHYL ACRYLATE

CAS No.: 140-88-5

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	Ethyl Acrylate
CAS Number	140-88-5
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 2)
- Acute Toxicity - Oral (Category 4)
- Acute Toxicity - Dermal (Category 4)
- Acute Toxicity - Inhalation (Category 4)
- Skin Irritation (Category 2)
- Eye Irritation (Category 2)
- Skin Sensitisation (Category 1)
- STOT Single Exposure (Category 3 - respiratory irritation)

HAZARD STATEMENTS

- H225 - Highly flammable liquid and vapour
- H302 - Harmful if swallowed
- H312 - Harmful in contact with skin
- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H335 - May cause respiratory irritation

PRECAUTIONARY STATEMENTS

- P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 - Keep container tightly closed
- P261 - Avoid breathing vapours
- P271 - Use only outdoors or in a well-ventilated area
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Wear protective gloves/eye protection/face protection
- P302+P352 - If on skin: wash with plenty of water
- P304+P340 - If inhaled: remove to fresh air and keep at rest
- P305+P351+P338 - If in eyes: rinse cautiously with water for several minutes; remove contact lenses if present
- P333+P317 - If skin irritation or a rash occurs: get medical advice
- P403+P233 - Store in a well-ventilated place; keep container tightly closed

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Ethyl Acrylate
CAS Number	140-88-5
Physical State	Liquid
Appearance / Odour	Colorless liquid with a sharp, acrid, penetrating odor detectable at very low concentrations.

4. FIRST-AID MEASURES

Eye Contact	Rinse immediately with plenty of water for at least 15 minutes, removing contact lenses if present, and seek medical attention.
Skin Contact	Remove contaminated clothing and wash thoroughly with soap and water; seek medical advice if irritation or a rash develops, as the material is a skin sensitizer.
Inhalation	Remove to fresh air immediately, keep at rest in a comfortable breathing position, and seek medical attention if breathing difficulty or irritation occurs.
Ingestion	Do not induce vomiting; rinse mouth and seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical, or carbon dioxide; use water spray to cool fire-exposed containers.
Unsuitable Extinguishing Media	Avoid a high-pressure straight water jet, which may spread the fire.
Special Hazards	Highly flammable with a low flash point; vapour is heavier than air; requires a polymerization inhibitor (commonly MEHQ) and adequate oxygen headspace to prevent hazardous exothermic self-polymerization, which can occur if the material is heated, contaminated, or the inhibitor/oxygen is depleted; combustion produces CO, CO2, and irritant/toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Measures	Evacuate the area, eliminate ignition sources, ventilate, contain the spill with inert absorbent, prevent entry into drains or waterways, and monitor for a polymerization hazard in large or confined spills.

7. HANDLING AND STORAGE

Handling Precautions	Keep cool and away from heat, sparks, open flames, and direct sunlight, ensure adequate inhibitor/air per supplier guidance, use explosion-proof ventilation and equipment, avoid inhalation and skin/eye contact, ground/bond during transfer, and avoid contamination with polymerization initiators.
Storage Conditions	Store below the recommended maximum temperature (cool, typically under 30C), shaded and well-ventilated, segregated from oxidizers, acids, bases, amines, and polymerization initiators, maintaining inhibitor level and adequate oxygen headspace.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	ACGIH TLV is 5 ppm TWA (skin sensitizer notation); OSHA/NIOSH reference values are around 25 ppm TWA; wear chemical splash goggles/face shield, nitrile or butyl gloves, protective clothing, and a NIOSH-approved organic vapour respirator if ventilation is inadequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance / Odour	Colorless liquid with a sharp, acrid, penetrating odor detectable at very low concentrations.
Boiling Point	99-100
Melting Point	-71 to -72
Flash Point	9-15 (closed cup)
Density / Specific Gravity	0.917-0.923 g/cm3 at 20C
Water Solubility	Slightly soluble, approximately 1.5-2 g/100 mL at 20C
pH Value	Not applicable

10. STABILITY AND REACTIVITY

Stability	Stable when adequately inhibited per specification; can undergo hazardous, exothermic self-polymerization if heated, contaminated, or if inhibitor/oxygen is depleted.
Incompatible Materials	Strong oxidizers, strong acids/bases, peroxides and other polymerization initiators, amines, and metals that catalyze polymerization.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion; hazardous heat/gas evolution if the material polymerizes uncontrolled.

11. TOXICOLOGICAL INFORMATION

Summary	Harmful by the oral, dermal, and inhalation routes; irritating to the skin, eyes, and respiratory tract; a recognized skin and respiratory sensitizer; local (forestomach) tumors observed in long-term, high-dose rodent studies attributed to chronic irritation led IARC to classify ethyl acrylate in Group 2B (possibly carcinogenic to humans), although this is not part of the mandatory EU harmonized (CLP Annex VI) classification; no significant evidence of germ-cell mutagenicity or reproductive toxicity.

12. ECOLOGICAL INFORMATION

Summary	Toxic to aquatic organisms (fish/invertebrate/algae LC50-EC50 typically in the low single-digit mg/L range); expected to biodegrade under aerobic conditions with low bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as flammable/hazardous chemical waste through a licensed waste contractor; do not allow uninhibited material to accumulate and do not discharge to sewers or waterways.

14. TRANSPORT INFORMATION

UN Number	UN1917 (Ethyl acrylate, stabilized)
Transport Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

Notes	Listed on the TSCA (US) and REACH (EU) inventories with an EU CLP harmonized classification under Annex VI (Index No. 607-032-00-X); some jurisdictions/self-classifications additionally note its IARC Group 2B carcinogen listing, which distributors should disclose even though it falls outside the mandatory harmonized classification; requires an adequately inhibited/stabilized grade for storage and transport.

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.

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