

SAFETY DATA SHEET

ETHYLENE DICHLORIDE (EDC)

CAS No.: 107-06-2

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	Ethylene Dichloride (EDC)
CAS Number	107-06-2
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, inhalation - Category 4 • Skin irritation - Category 2 • Serious eye irritation - Category 2A • Germ cell mutagenicity - Category 2 • Carcinogenicity - Category 1B • Specific target organ toxicity, single exposure - Category 3 (narcotic effects, respiratory irritation)	
HAZARD STATEMENTS • H225 - Highly flammable liquid and vapour • H302 - Harmful if swallowed • H315 - Causes skin irritation • H319 - Causes serious eye irritation • H332 - Harmful if inhaled • H335 - May cause respiratory irritation • H336 - May cause drowsiness or dizziness • H341 - Suspected of causing genetic defects • H350 - May cause cancer	
PRECAUTIONARY STATEMENTS • P201 - Obtain special instructions before use • P210 - Keep away from heat, sparks, open flames and hot surfaces; no smoking • P260 - Do not breathe vapours • P264 - Wash exposed skin thoroughly after handling • P271 - Use only outdoors or in a well-ventilated area • P280 - Wear protective gloves/eye protection/face protection • P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor if you feel unwell • P304+P340 - IF INHALED: remove 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; continue rinsing • P308+P313 - IF exposed or concerned: get medical advice/attention • P405 - Store locked up	

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Ethylene Dichloride (EDC)
CAS Number	107-06-2
Physical State	Liquid
Appearance / Odour	Colorless, oily liquid with a chloroform-like, sweetish odor.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and get medical attention if irritation persists.
Skin Contact	Remove contaminated clothing and wash skin thoroughly with soap and water; seek medical attention if irritation persists.
Inhalation	Remove immediately to fresh air and keep at rest in a position comfortable for breathing; seek immediate medical attention.
Ingestion	Do NOT induce vomiting; rinse mouth; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media	Dry chemical, carbon dioxide, alcohol-resistant foam; water spray to cool exposed containers.
Unsuitable Extinguishing Media	Avoid a straight/high-pressure water stream, which can spread the fire.
Special Hazards	Highly flammable liquid producing vapor that readily forms explosive mixtures with air and may travel along the ground to an ignition source; combustion or thermal decomposition releases toxic and corrosive hydrogen chloride and phosgene-related fumes; firefighters must wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES	
Measures	Evacuate non-essential personnel, eliminate ignition sources, ventilate the area, contain the spill, avoid contact and inhalation, prevent entry into drains/waterways, and collect using appropriate absorbents for disposal by trained personnel.

7. HANDLING AND STORAGE	
Handling Precautions	Use only in a closed system or with robust local exhaust ventilation, keep away from heat/sparks/open flame, use grounded/bonded equipment, avoid all skin/eye contact and inhalation, and be aware this is a probable human carcinogen requiring stringent exposure control.
Storage Conditions	Store in a cool, well-ventilated, flammables-rated area away from heat, light and oxidizers, in tightly closed corrosion-resistant containers; store locked up/restricted access given its carcinogenicity classification.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure Limits / PPE	OSHA PEL ~50 ppm TWA / ACGIH TLV ~10 ppm TWA; requires chemical-resistant gloves (e.g., Viton, laminate film), full-face respirator with organic vapor cartridge or supplied air where levels exceed exposure limits, chemical splash goggles, and impervious protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State	Liquid
Appearance / Odour	Colorless, oily liquid with a chloroform-like, sweetish odor.
Boiling Point	~83-84 C
Melting Point	~-35 C
Flash Point	~13-17 C (closed cup)
Density / Specific Gravity	~1.25 g/cm3 at 20 C
Water Solubility	~8.5 g/L at 20 C (slightly soluble)
pH Value	Not applicable (non-aqueous, essentially neutral organic liquid)

10. STABILITY AND REACTIVITY	
Stability	Stable under normal storage conditions; can react with strong oxidizers and certain metals (e.g., aluminum) which may catalyze decomposition.
Incompatible Materials	Strong oxidizing agents, strong bases, and active/finely divided metals such as aluminum powder (can react violently).
Hazardous Decomposition	Hydrogen chloride, phosgene-related and other toxic chlorinated fumes on combustion or strong thermal decomposition.

11. TOXICOLOGICAL INFORMATION	
Summary	Harmful if swallowed or inhaled; causes skin and eye irritation; vapor has narcotic effects at elevated concentrations; classified as a probable human carcinogen (IARC Group 2B/EU Category 1B) and suspected mutagen based on substantial animal evidence, primarily via the key intermediate role in vinyl chloride/PVC production where occupational exposure has been extensively studied; repeated exposure is associated with liver and kidney effects in animal studies.

12. ECOLOGICAL INFORMATION	
Summary	Moderately persistent in the environment with limited bioaccumulation potential; moderately toxic to aquatic organisms; should be prevented from entering waterways.

13. DISPOSAL CONSIDERATIONS	
Disposal Method	Dispose of as hazardous waste through a licensed specialist waste management/incineration facility in accordance with local regulations; never discharge to drains or the general environment.

14. TRANSPORT INFORMATION	
UN Number	UN1184
Transport Hazard Class	Class 3 (Flammable liquid)
Packing Group	II

15. REGULATORY INFORMATION	
Notes	Major industrial intermediate primarily for vinyl chloride monomer/PVC production; classified as a carcinogen, flammable and acutely toxic substance under GHS, OSHA HCS and EU CLP; regulated for transport under IMDG/ADR/IATA as UN1184, Class 3, Packing Group II; handling restricted to trained personnel with appropriate engineering controls.

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.

"DEALERS IN ACIDS, SOLVENTS, MINERALS, BASES AND SPECIALISED CHEMICAL COMPOUNDS"

+91 - 9840284032, 9176135357
+91 - 44 - 25393652, 42130281
sales@surajchemicals.com
surajchemicals@yahoo.com

No 92, Govindappa Naicken Street
Shiva Complex, Chennai - 600001
www.surajchemicals.com
GST NO : 33ACEPV8190L1ZZ

AUTHORISED DEALER AND IMPORTER FOR
GRASIM INDUSTRIES (ADITYA BIRLA), BASF (GERMANY), GODREJ INDUSTRIES, SNF (FRANCE)