

SAFETY DATA SHEET

ISO PHTHALIC ACID (PURIFIED, PIA)

CAS No.: 121-91-5

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	Iso Phthalic Acid (Purified, PIA)
CAS Number	121-91-5
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 Not classified

HAZARD CLASSIFICATION

- Not classified as hazardous under GHS criteria (dust may present a combustible-dust/nuisance-dust concern)

HAZARD STATEMENTS

None assigned

PRECAUTIONARY STATEMENTS

None assigned

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Iso Phthalic Acid (Purified, PIA)
CAS Number	121-91-5
Physical State	Solid
Appearance / Odour	White crystalline powder or granules, essentially odorless.

4. FIRST-AID MEASURES

Eye Contact	Rinse with plenty of water for several minutes, removing contact lenses if present; seek medical attention if irritation persists.
Skin Contact	Remove contaminated clothing and wash affected area with plenty of water and soap.
Inhalation	Remove to fresh air and keep at rest; seek medical attention if coughing or irritation persists.
Ingestion	Rinse mouth with water; if large amounts are swallowed or symptoms occur, seek medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, dry chemical, or carbon dioxide.
Unsuitable Extinguishing Media	None specifically identified; avoid actions that disperse dust into a cloud.
Special Hazards	Finely dispersed dust can form an explosive mixture with air; combustion produces carbon monoxide and carbon dioxide; use closed handling systems and appropriate electrical equipment to control dust ignition sources.

6. ACCIDENTAL RELEASE MEASURES

Measures	Sweep or vacuum up (avoid generating airborne dust; do not use compressed air), avoid ignition sources, collect in suitable closed containers for disposal or recovery, and clean the area with water if needed.
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7. HANDLING AND STORAGE

Handling Precautions	Minimize dust generation, use local exhaust ventilation/dust collection, avoid ignition sources near dust clouds, and ground/bond equipment to control static electricity.
Storage Conditions	Store in a dry, well-ventilated area in closed containers, away from strong oxidizing agents and ignition sources.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No substance-specific occupational exposure limit is widely established; treat as a particulate not otherwise classified (general guidance ACGIH ~10 mg/m3 inhalable, 3 mg/m3 respirable) and use a dust mask/P-series respirator, safety glasses, and gloves when handling bulk quantities.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White crystalline powder or granules, essentially odorless.
Boiling Point	Sublimes/decomposes above ~300 (no conventional boiling point)
Melting Point	345-348 (sublimes)
Flash Point	Not applicable (combustible solid; autoignition ~700)
Density / Specific Gravity	1.54 g/cm ³
Water Solubility	Practically insoluble in cold water (~0.013 g/100 mL at 25°C); slightly soluble in hot water
pH Value	~3.5-4.0 (saturated aqueous suspension, weak diprotic acid)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and use.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition	Carbon monoxide and carbon dioxide on combustion.

11. TOXICOLOGICAL INFORMATION

Summary	Very low acute oral toxicity (rat LD50 typically greater than 5,000 mg/kg); dust may cause mechanical/mild irritation to the eyes, skin, and upper respiratory tract; not classified as a carcinogen, mutagen, or reproductive toxicant under GHS.
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12. ECOLOGICAL INFORMATION

Summary	Very low water solubility and low bioaccumulation potential; not classified as hazardous to the aquatic environment under GHS; readily removed by conventional wastewater treatment due to low solubility.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of as non-hazardous industrial solid waste in accordance with local regulations, typically by permitted landfill or incineration.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not applicable
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Widely used raw material for unsaturated polyester resins, alkyd resins, and PET/PIA copolymer production; not subject to an EU CLP harmonized (Annex VI) classification; handle as a combustible dust regardless of GHS status.
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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.

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

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