

Safety Data Sheet

1 Identification of the substance/preparation and of the company/undertaking

- **Product name:** **Purified Isophthalic Acid**
- **Application of the substance / the preparation** Intermediate

2 Hazards identification

- **Hazard description:** The product is not classified as hazardous to health or the environment.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Additional information:**
Slightly irritating to eyes
May cause mild skin irritation
Dust can form an explosive mixture with air

3 Composition/information on ingredients

- **Chemical characterization**

- **Chemical components:**

CAS: 121-91-5	isophthalic acid	≥99.85%
EINECS: 204-506-4		

4 First-aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water, immediately consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water or milk.
If you feel unwell consult doctor.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
- **Measures for environmental protection:**
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about fire - and explosion protection:**
Dust can form an explosive mixture with air.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Storage:**
- **Further information about storage conditions:**
Keep container tightly sealed.
Store receptacle in a well ventilated area.
Store in dry conditions.
Keep away from any source of ignition

8 Exposure controls/personal protection

- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:**
Ensure that eyewash stations and safety showers are proximal to the work-station location.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
Dustfilter
Filter P2
- **Protection of hands:**



Protective gloves

PVC gloves
Plastic gloves

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- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Eye protection:**



Safety glasses

9 Physical and chemical properties

- **General Information**

Form:	Crystalline powder
Colour:	White
Odour:	Odourless

- **Change in condition**

Melting point/Melting range:	347 °C
Boiling point/Boiling range:	Sublimes

- **Flash point:** Not applicable.

- **Ignition temperature:** >650 °C

- **Danger of explosion:** The product is not explosive. However, formation of explosive air-vapour/dust mixtures are possible.

- **Density at 20 °C:** 1.54 g/cm³

- **Solubility in / Miscibility with water at 20 °C:** 0.10 g/l

- **Partition coefficient (n-octanol/water):** -2.34 log POW (at pH 7)

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.
- **Materials to be avoided:** Keep away from oxidizing agents
- **Dangerous reactions** Risk of dust explosion.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

121-91-5 isophthalic acid

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** Slightly irritating.

- **on the eye:** Slightly irritating.

- **Additional toxicological information:**

The substance is not subject to classification according to the latest version of the EU lists.

- **Mutagenicity:** AMES test - Negative (Salmonella typhimurium)

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12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:**
The product is readily biodegradable.
85 % after 16 days, aerobic (OECD 301 B)
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.
- **Ecotoxicological effects:**

- **Aquatic toxicity:**

121-91-5 isophthalic acid

EC50	617 mg/l (bacteria) (OECD 209)
NOEC	>1000 mg/l (alga) 96 h (OECD 201)
	>1000 mg/l (daphnia) 48 h (OECD 202)
	>1000 mg/l (fish) 96 h (OECD 203)

- **Remark:**
Low toxicity to aquatic organisms.
The product is not classified as dangerous to the environment.

13 Disposal considerations

- **Product:**
- **Recommendation** Disposal must be made according to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous goods according to the above specifications.

15 Regulatory information

- **Labelling according to EU guidelines:**
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials.
- **Safety phrases:**
24/25 Avoid contact with skin and eyes.

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16 Other information

This Safety Data Sheet is not a Product Specification. It is based on our present knowledge and experience and it is intended to serve as a guide for safe handling of the product regarding to health and environmental aspects.

- **Department issuing SDS:** Corporate EHSQ Perstorp Holding AB

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