

Material Safety Data Sheet

According to 91/155 EEC(2001/58 EC)

Printing date: 01.12.2006

Reviewed on: 01.12.2006

1 Identification of substance:

- **Product details:**
- **Trade name: Isophthalic Acid**
- **Application of the substance / the preparation**
 Auxiliary
 Production of synthetic resins and plastic intermediate products
 Co-Monomer
- **Supplier/Manufacturer:**
 Penpet Petrochemical Trading GmbH
 Merkur-Park
 Sieker Landstrasse 126
 22143 Hamburg
 Germany
 Tel: +49 40 675 799 0
 Fax: +49 40 675 799 99 / 88
- **Information department:** see above
- **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
 121-91-5 isophthalic acid
- **Identification number(s):**
- **EINECS Number:** 204-506-4

3 Hazards identification

- **Hazard description:** not applicable
- **Information pertaining to particular dangers for man and environment:**
 No hazards to be particularly mentioned. Please note the information of this Material Safety Data Sheet.
 According to current European laws and regulations the product is not dangerous or toxic material (based on the available data).
- **Classification system:**
 The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

4 First aid measures

- **General information:** If symptoms persist or in case of doubt seek medical advice.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
 Wash with water and soap.
 Generally the product does not irritate the skin.
- **After eye contact:**
 Rinse opened eye for several minutes under running water.
 If symptoms persist consult a doctor.
- **After swallowing:**
 Drink plenty of water, but never give anything to an unconscious person.
 Induce vomiting, if person is conscious. Seek medical help.
- **Information for doctor:**
- **The following symptoms may occur:**
 After inhalation:
 Irritation of mucuous membranes
 Cough
 Breathing difficulty
 After swallowing:

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After the uptake of large quantities:

Drowsiness

Agitation

 · **Treatment:** Symptomatic treatment

5 Fire fighting measures

 · **Suitable extinguishing agents:**

Fire-extinguishing powder

Foam

Use fire fighting measures that suit the environment.

 · **Special hazards caused by the material, its products of combustion or resulting gases:**

Dangerous decomposition product see chapter 10: stability and reactivity

 · **Protective equipment:** Wear self-contained respiratory protective device.

 · **Additional information:**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

 · **Person-related safety precautions:**

Ensure adequate ventilation

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective clothing.

Keep unprotected persons away.

 · **Measures for environmental protection:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

 · **Measures for cleaning/collecting:**

Avoid dust formation absolutely. If necessary pick up with a tested and approved industrial vacuum cleaner.

Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

7 Handling and storage

 · **Handling**

 · **Information for safe handling:**

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Ensure good ventilation/exhaustion at the workplace.

Avoid inhalation of dust.

Avoid contact with eyes and skin.

 · **Information about protection against explosions and fires:**

Dust can combine with air to form an explosive mixture.



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges

Welding operations are permitted only under supervision.

 · **Storage**

 · **Requirements to be met by storerooms and receptacles:** Store at ambient temperatures and at dry conditions.

 · **Information about storage in one common storage facility:**

Store away from foodstuffs.

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- Store away from feed.
- **Further information about storage conditions:** None.
- **Storage class** 11 Combustible solids

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional Occupational Exposure Limit Values for possible hazards during processing:**
Observe general threshold limit for dust.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
The usual precautionary measures should be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Do not inhale dust / smoke / mist.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
Vacuum clean contaminated clothing. Do not blow or brush off contamination.
Use skin protection cream for skin protection.
- **Breathing equipment:**
At formation of dust:
Short term filter device:
Filter P1.
- **Protection of hands:**
At longer contact: protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **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.
- **Penetration time of glove material:**
The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** At formation of dust or insufficient ventilation: Tightly sealed goggles.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **General Information**

Form:	Solid. Crystalline
Colour:	White
Odour:	Nearly odourless
- **Change in condition:**
 - Melting point/Melting range:** 345°C
 - Boiling point/Boiling range:** undetermined
- **Flash point:** not applicable
- **Flammability (solid, gaseous)** Product is not flammable.
- **Ignition temperature:** 700°C
- **Danger of explosion:** Product does not present an explosion hazard.
- **Vapour pressure at 250°C:** 6.1 hPa
- **Density at 20°C:** 0.84 g/cm³

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- **Solubility in / Miscibility with Water at 25°C:** 0.12 g/l

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Dangerous reactions:**
As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion
- **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
121-91-5 isophthalic acid
Oral LD₅₀ > 10000 mg/kg (rat)
Dermal LD₅₀ > 2000 mg/kg (rabbit)
- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:**
No irritating effect.
Eye irritation is possible after mechanical influence (dust).
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

- **Information about elimination (persistence and degradability):**
- **Other information:** The product is biodegradable.
- **Ecotoxicological effects:**
- **Aquatic toxicity:** Presently there are no ecotoxicological values available.
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Classification according to German VwVwS dt. 17.05.99 appendix 3



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to instructions of local authorities.
- **Uncleaned packagings:**
- **Recommendation:**
Disposal must be made according to official regulations.
Packagings that cannot be cleansed are to be disposed of in the same manner as the product.
If not officially regulated non contaminated packagings can be used for recycling or treated like household garbage.

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14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
No hazardous good according to the regulation.
- **Maritime transport IMDG:**
- **IMDG Class:** No hazardous good according to the regulation.
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** No hazardous good according to the regulation.

15 Regulations

- **Markings according to EC guidelines:**
The substance(product)is not subject to classification according to EC-directives and other sources of literature known to us.
Observe the general safety regulations when handling chemicals
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
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