



Section 1. Product and Company Identification

**Product Name** Isophthalic Acid  
**CAS Number** 121-91-5

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**New Rochelle, NY 10801**  
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EMERGENCY RESPONSE NUMBER  
CHEMTEL  
Toll Free US & Canada: 1 (800) 255-3924  
All other Origins: 1 (813) 248-0585  
Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**  
Not classified as a hazardous substance or mixture

**GHS Label Elements**  
**Pictograms:** N/A  
**Signal word:** N/A

**Hazard and precautionary statements**  
None

**Hazards not otherwise classified (HNOC) or not covered by GHS:** None

Section 3. Composition / Information on Ingredients

**Common Name** Isophthalic Acid  
**Synonym(s)** Benzene-1,3-dicarboxylic acid; 1,3-Benzenedicarboxylic Acid  
**Formula** C<sub>8</sub>H<sub>6</sub>O<sub>4</sub>  
**CAS Number** 121-91-5

COMPONENT	CAS NUMBER	CONCENTRATION
Isophthalic Acid	121-91-5	<= 100%

Section 4. First Aid Measures

**Description of first aid measures**

**General Advice:** Move out of dangerous area.

**Inhalation:** Move person into fresh air. If not breathing, give artificial respiration.

**Skin contact:** Wash off with soap and plenty of water.

**Eye contact:** Flush eyes with water as a precaution.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water.



**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

Section 5. Firefighting Measures

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Avoid dust formation. Avoid breathing vapors, mist, or gas. For personal protection see section 8.

**Environmental precautions:** No special environmental precautions required.

**Methods and materials for containment and cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13.

Section 7. Handling and Storage

**Precautions for safe handling:** Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

**Storage class (TRGS 510):** Non Combustible Solids

Section 8. Exposure Controls / Personal Protection

**Control parameters**

**Components with workplace control parameters**

Component	CAS No.	Value	Control parameters	Basis
Isophthalic acid	121-91-5	TWA	10.000000 mg/m <sup>3</sup>	USA. Workplace Environmental Exposure Levels (WEEL)



		TWA	5.000000 mg/m <sup>3</sup>	USA. Workplace Environmental Exposure Levels (WEEL)
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### Exposure controls

**Appropriate engineering controls:** General industrial hygiene practice.

### Personal protective equipment

**Eye/face protection:** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** No special environmental precautions required.

## Section 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

**Appearance:** Beige powder

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** No data available

**Melting point/freezing point:** Melting point/range: 341 - 343°C (646 - 649°F) - lit.

**Initial boiling point and boiling range:** No data available

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** The product is not flammable.

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Relative density:** 1.53 g/cm<sup>3</sup> at 25°C (77°F)

**Water solubility:** ca.0.12 g/l at 25°C (77°F) - soluble

**Partition coefficient (n-octanol/water):** log Pow: 0.005 at 22°C (72°F)

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Explosive properties:** No data available

**Oxidizing properties:** No data available

**Other safety information:** No data available

#### Section 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Strong oxidizing agents, Strong bases

#### Hazardous decomposition products

**Other decomposition products:** No data available

**In the event of fire:** see section 5

#### Section 11. Toxicological Information

##### Information on toxicological effects

##### Acute toxicity

**LD50 Oral:** Rat - male and female - > 5,000 mg/kg (OECD Test Guideline 401)

**LC50 Inhalation:** Rat - male and female - 4 h - > 11,370 mg/m<sup>3</sup> (OECD Test Guideline 403)

**LD50 Dermal:** Rabbit - male and female - > 2,000 mg/kg (OECD Test Guideline 402)

##### Skin corrosion/irritation

**Skin:** Rabbit

**Result:** No skin irritation - 4h (OECD Test Guideline 404)

##### Serious eye damage/eye irritation

**Eyes:** Rabbit

**Result:** No eye irritation - 2s (OECD Test Guideline 405)

##### Respiratory or skin sensitization

**Maximization Test (GPMT):**- Guinea pig

**Result:** Does not cause skin sensitization. (OECD Test Guideline 406)

##### Germ cell mutagenicity

**Hamster:** Ovary

**Result:** Negative



### **Carcinogenicity**

**IARC:** No components of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

### **Additional Information**

**RTECS:** NT2007000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Stomach:** Irregularities - Based on Human Evidence

### Section 12. Ecological Information

#### **Toxicity**

##### **Toxicity to fish**

**Static test LC50:** Leuciscus idus melanotus: > 907 mg/l (96h)  
(OECD Test Guideline 203)

##### **Toxicity to daphnia and other aquatic invertebrates**

**Static test EC50:** Daphnia magna (Water flea): > 952 mg/l (48h)  
(OECD Test Guideline 202)

##### **Toxicity to algae**

**Static test ErC50:** Desmodesmus subspicatus (Scenedesmus subspicatus): > 1,000 mg/l (96 h)  
(OECD Test Guideline 201)

##### **Toxicity to bacteria**

**Respiration inhibition EC50:** Sludge Treatment: 617.1 mg/l (3 h)  
(OECD Test Guideline 209)

#### **Persistence and degradability**

##### **Biodegradability**

**Aerobic:** Exposure time 14d

**Result:** 85 % - Readily biodegradable (OECD Test Guideline 301B)



**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** No data available

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**DOT (US):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Chronic Health Hazard

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

Isophthalic acid (CAS-No. 121-91-5)

**New Jersey Right to Know Components**

Isophthalic acid (CAS-No. 121-91-5)

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**HMIS Rating**

**Health:** 1\*

**Flammability:** 0

**Reactivity:** 0



**NFPA Rating**

**Health:** 1

**Flammability:** 0

**Reactivity:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 1/21/2016

