

**SIGMA-ALDRICH**

sigma-aldrich.com

**Material Safety Data Sheet**

Version 3.2

Revision Date 01/19/2012

Print Date 10/25/2012

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : 2-Iodoxybenzoic acid

Product Number : 661384  
Brand : Aldrich

Supplier : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +1 800-325-5832  
Fax : +1 800-325-5052  
Emergency Phone # (For both supplier and manufacturer) : (314) 776-6555

Preparation Information : Sigma-Aldrich Corporation  
Product Safety - Americas Region  
1-800-521-8958

**2. HAZARDS IDENTIFICATION****Emergency Overview****OSHA Hazards**

Target Organ Effect, Harmful by ingestion., Irritant

**Target Organs**

Kidney

**GHS Classification**

Skin corrosion (Category 1)

Serious eye damage (Category 1)

Specific target organ toxicity - single exposure (Category 3)

**GHS Label elements, including precautionary statements**

Pictogram



Signal word : Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/ physician.

**HMIS Classification**

Health hazard: 2

Chronic Health Hazard: \*

Flammability: 0

Physical hazards: 0

**NFPA Rating**

Health hazard: 2

Fire: 0

Reactivity Hazard: 0

**Potential Health Effects**

**Inhalation** : May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** : Harmful if absorbed through skin. Causes skin irritation.

**Eyes** : Causes severe eye burns. Causes eye irritation.

**Ingestion** : Harmful if swallowed.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : SIBX  
Stabilized IBX

Formula : C<sub>7</sub>H<sub>5</sub>IO<sub>4</sub>  
Molecular Weight : 280.02 g/mol

Component	Classification	Concentration
<b>o-Iodoxybenzoic acid</b>		
CAS-No. 61717-82-6	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	30 - 60 %
<b>Isophthalic acid</b>		
CAS-No. 121-91-5 EC-No. 204-506-4		30 - 60 %
<b>Benzoic acid</b>		
CAS-No. 65-85-0 EC-No. 200-618-2	Eye Dam. 1; STOT SE 3; H318, H335	10 - 30 %

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

**4. FIRST AID MEASURES****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**5. FIREFIGHTING MEASURES****Conditions of flammability**

Not flammable or combustible.

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen iodide

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**

Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Product is sensitive to light and moisture. Handle and store under inert gas.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Basis
isophthalic acid	121-91-5	TWA	10 mg/m <sup>3</sup>	USA, Workplace Environmental Exposure Levels (WEEL)
		TWA	5 mg/m <sup>3</sup>	USA, Workplace Environmental Exposure Levels (WEEL)

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand 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.

**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form crystalline  
 Colour no data available

**Safety data**

pH 1.8  
 Melting point/freezing point Melting point/range: 250 °C (482 °F) - Decomposes on heating.  
 Boiling point no data available  
 Flash point no data available  
 Ignition temperature no data available  
 Autoignition temperature no data available  
 Lower explosion limit no data available  
 Upper explosion limit no data available  
 Vapour pressure no data available  
 Density no data available  
 Water solubility no data available  
 Partition coefficient: n-octanol/water no data available  
 Relative vapour density no data available  
 Odour no data available  
 Odour Threshold no data available  
 Evaporation rate no data available

**10. STABILITY AND REACTIVITY****Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

no data available

**Conditions to avoid**

no data available

**Materials to avoid**

Strong bases, Oxidizing agents, Strong oxidizing agents, Strong reducing agents

**Hazardous decomposition products**Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen iodide  
 Other decomposition products - no data available**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Oral LD50  
 no data available  
 Inhalation LC50  
 no data available  
 Dermal LD50

no data available

**Other information on acute toxicity**  
no data available

**Skin corrosion/irritation**  
no data available

**Serious eye damage/eye irritation**  
Eyes: no data available

**Respiratory or skin sensitization**  
no data available

**Germ cell mutagenicity**  
no data available

#### Carcinogenicity

**IARC:** No component 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 component 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 component 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 component 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

#### Teratogenicity

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**  
no data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**  
no data available

**Aspiration hazard**  
no data available

#### Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes severe eye burns. Causes eye irritation.

#### Signs and Symptoms of Exposure

spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache

**Synergistic effects**  
no data available

**Additional information**  
RTECS: Not available

## 12. ECOLOGICAL INFORMATION

### Toxicity

Aldrich - 661384  
Delivery 0843116281-000020 Purchase Order CC/Baier

Page 5 of 7

no data available

**Persistence and degradability**  
no data available

**Bioaccumulative potential**  
no data available

**Mobility in soil**  
no data available

**PBT and vPvB assessment**  
no data available

**Other adverse effects**  
no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**  
Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### DOT (US)

UN number: 1759 Class: 8 Packing group: II  
Proper shipping name: Corrosive solids, n.o.s. (Isophthalic acid, o-Iodoxybenzoic acid)  
Marine pollutant: No  
Poison Inhalation Hazard: No

### IMDG

UN number: 1759 Class: 8 Packing group: II EMS-No: F-A, S-B  
Proper shipping name: CORROSIVE SOLID, N.O.S. (Isophthalic acid, o-Iodoxybenzoic acid)  
Marine pollutant: No

### IATA

UN number: 1759 Class: 8 Packing group: II  
Proper shipping name: Corrosive solid, n.o.s. (Isophthalic acid, o-Iodoxybenzoic acid)

## 15. REGULATORY INFORMATION

### OSHA Hazards

Target Organ Effect, Harmful by ingestion., Irritant

### SARA 302 Components

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

### SARA 313 Components

SARA 313: 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

Acute Health Hazard, Chronic Health Hazard

### Massachusetts Right To Know Components

Benzoic acid	CAS-No. 65-85-0	Revision Date 2007-03-01
--------------	--------------------	-----------------------------

### Pennsylvania Right To Know Components

Benzoic acid	CAS-No. 65-85-0	Revision Date 2007-03-01
Isophthalic acid	121-91-5	

Aldrich - 661384  
Delivery 0843116281-000020 Purchase Order CC/Baier

Page 6 of 7

o-Iodoxybenzoic acid

61717-82-6

**New Jersey Right To Know Components**

Benzoic acid  
Isophthalic acid  
o-Iodoxybenzoic acid

CAS-No.	Revision Date
65-85-0	2007-03-01
121-91-5	
61717-82-6	

**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.

---

**16. OTHER INFORMATION**

**Text of H-code(s) and R-phrase(s) mentioned in Section 3**

Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure

**Further information**

Copyright 2012 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. 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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.sigma-aldrich.com](http://www.sigma-aldrich.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.