



## Material Safety Data Sheet

**Product Name: 2 – IODOBENZOIC ACID**

### Section 1-Product Information

**Formula** : C<sub>7</sub>H<sub>5</sub>IO<sub>2</sub>  
**Molecular weight** : 248.02  
**CAS No** : 88-67-5  
**SARA 313** : No  
**Synonym's** : Benzoic acid, 2-Iodo-(9CI), o-Iodobenzoic acid, 2-Iodobenzoic acid, Kyselina o-jodbenzoova (Czech)

### Section 2-Composition, Information on Ingredients

**Chemical Name** : 2-Iodobenzoic acid  
**Hazard Symbol** : N/A  
**CAS No** : 88-67-5  
**RTECS Number** : DH2975000  
**Appearance** : White to off white Powder

### Section 3-Hazards Identification

#### EMERGENCY OVERVIEW

Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.

Target organ (s) : Thyroid

#### HMIS RATING

Health : 2\*  
Flammability : 0  
Reactivity : 0

#### NFPA RATING

Health : 2  
Flammability : 0  
Reactivity : 0

\* Additional chronic hazard present.

For additional information on toxicity, please refer to section 11

### Section 4-First Aid Measure

#### ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.



### **DERMAL EXPOSURE**

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

### **EYE EXPOSURE**

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## **Section 5-Fire fighting procedure**

<b>FLASH POINT</b>	:	N/A
<b>AUTOIGNITION TEMP</b>	:	N/A
<b>FLAMMABILITY</b>	:	N/A

### **EXTINGUISHING MEDIA**

**Suitable:** Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

### **FIRE FIGHTING**

**Protective Equipment:** wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Specific Hazard (s):** Emits toxic fumes under fire conditions.

## **Section 6-Accidental Release Measure**

### **PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL**

Evacuate the area.

### **PROCEDURE (S) OF PERSONAL PRECAUTION (S)**

Wear respiratory, chemical safety goggles, rubber boots, and heavy rubber gloves.

### **METHODS FOR CLEANING UP**

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## **Section 7-Handling and Storage**

### **HANDLING**

User Exposure: Do not breathe dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

### **STORAGE**

Suitable: Keep tightly closed. Handle and store under nitrogen.

### **SPECIAL REQUIREMENTS**

Handle and store under inert gas.



## Section 8-Exposure control/Personal protection

### ENGINEERING CONTROLS:

Safety shower and eye bath. Mechanical exhaust required.

### PERSONAL PROTECTIVE EQUIPMENT

**Respiratory :** Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate, use a dust mask type N95 (US) or type P1 (EN 143) respirator.

**Hand:** Compatible chemical-resistant gloves

**Eye:** Chemical safety goggles

### GENERAL HYGIENE MEASURES:

Wash thoroughly after handling.

## Section 9-Physical Chemical Properties

<b>Appearance</b>	:	Solid
<b>Color</b>	:	Light brown
<b>Form</b>	:	Powder
<b>Molecular Weight</b>	:	248.02 AMU
<b>pH</b>	:	N/A
<b>BP/BP Range</b>	:	N/A
<b>MP/MP Range</b>	:	161 °C
<b>Freezing Point</b>	:	N/A
<b>Vapor Pressure</b>	:	N/A
<b>Vapor Density</b>	:	N/A
<b>SG/Density</b>	:	N/A
<b>Bulk Density</b>	:	N/A
<b>Volatile %</b>	:	N/A
<b>VOC Content</b>	:	N/A
<b>Water Content</b>	:	N/A
<b>Evaporation Rate</b>	:	N/A
<b>Viscosity</b>	:	N/A
<b>Surface Tension</b>	:	N/A
<b>Partition Coefficient</b>	:	N/A
<b>Decomposition Temp</b>	:	N/A

## Section 10-Stability and Reactivity

### STABILITY

Stable: Stable

Materials to avoid: Oxidizing agents



### **HAZARDOUS DECOMPOSITION PRODUCTS**

Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Iodine Hydrogen Iodide.

### **HAZARDOUS POLYMERIZATION**

Hazardous Polymerization: Will not occur

## **Section 11-Toxicity Information**

### **ROUTE OF EXPOSURE**

**Skin Contact:** Causes skin irritation

**Skin Absorption:** May be harmful if absorbed through the skin

**Eye Contact:** Causes severe eye irritation

**Inhalation:** Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled

**Ingestion:** Harmful if swallowed

### **TARGET ORGAN (S) OR SYSTEM (S)**

Thyroid

### **SIGNS AND SYMPTOMS OF EXPOSURE**

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

Prolonged exposure to iodides may produce iodism in sensitive individuals.

Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

### **TOXICITY DATA**

Oral

Mouse

1500 mg/kg

LD50

Intraperitoneal

Mouse 200 mg/kg

LD50



## Section 12-Ecological Information

No data available

## Section 13-Disposal Considerations

### **APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator, equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14-Transport Information

### **DOT**

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

### **IATA**

Non-Hazardous for Air Transport: Non-hazardous for air transport.

## Section 15-Regulatory Information

### **EU ADDITIONAL CLASSIFICATION**

**Symbol of Danger :** Xn

**Indication of Danger :** Harmful.

**R:** 22-37/38-41

**Risk Statements:** Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.

**S:** 26-39

**Safety Statements:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye/face protection.

### **US CLASSIFICATION AND LABEL TEXT**

**Indication of Danger:** Harmful.

**Risk Statements:** Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.

**Safety Statements:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and eye/face protection.

**US Statements:** Target organ(s): Thyroid.

### **UNITED STATES REGULATORY INFORMATION**

SARA LISTED : No

TSCA INVENTORY ITEM : Yes

### **CANADA REGULATORY INFORMATION**

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL : Yes

NDSL : No



## **Section 16-Additional Information**

### **DISCLAIMER**

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