



**SIGMA-ALDRICH**

## Material Safety Data Sheet

Date Printed: 04/25/2006  
Date Updated: 04/11/2006  
Version 1.50

### Section 1 - Product and Company Information

**Product Name** Iodoplatinate Spray Reagent  
**Product Number** I9157  
**Brand** Sigma Chemical

**Company** Sigma-Aldrich  
**Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 800-325-5832  
**Fax:** 800-325-5052

**Emergency Phone:** 314-776-6555

### Section 2 - Composition/Information on Ingredient

| <u>Substance Name</u> | <u>CAS #</u> | <u>SARA 313</u> | <u>EC no</u> | <u>Annex I Index Number</u> |
|-----------------------|--------------|-----------------|--------------|-----------------------------|
|-----------------------|--------------|-----------------|--------------|-----------------------------|

IODOPLATINATE SPRAY REAGENT

None

No

**Ingredient Name**  
PROPRIETARY COMPONENT(S)  
POTASSIUM IODIDE

**CAS #**  
None  
7681-11-0

**Percent**  
97.000 %  
3.000 %

**SARA 313**  
No  
No

**Formula**  
**Synonyms**

### Section 3 - Hazards Identification

#### Emergency Overview

Toxic.  
Causes burns. May cause harm to the unborn child. May cause sensitization by inhalation and skin contact.  
Target organ(s): Thyroid. Blood.

**HMIS Rating**  
Health: 3\*      Flammability: 0      Reactivity: 1

**NFPA Rating**  
Health: 3      Flammability: 0      Reactivity: 1

\*additional chronic hazards present.

For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

#### 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 Measures

**Autoignition Temp:** N/A

#### Firefighting

##### 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 Measures

#### Methods for Cleaning Up

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

##### User Exposure

Do not breathe vapor. Do not get in eyes, on skin, on clothing.

#### Storage

##### Suitable

Keep tightly closed. Store at 2-8°C

#### Special Requirements

Light sensitive. Air sensitive. Moisture sensitive.

### Section 8 - Exposure Controls / PPE

#### 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 full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

##### Hand

Compatible chemical-resistant gloves.

##### Eye

Chemical safety goggles.

Sigma Chemical - I9157  
Page 2

Sigma-Aldrich Corporation  
www.sigma-aldrich.com

**RECEIVED**

MAY 02 2006

Safety and Environmental  
Health

**General Hygiene Measures**

Wash thoroughly after handling. Discard contaminated shoes. Wash contaminated clothing before reuse.

**Section 9 - Physical/Chemical Properties****Appearance****Physical State**

Liquid

**Molecular Weight:** N/A

**pH** N/A

**BP/BP Range** N/A

**MP/MP Range** N/A

**Freezing Point** N/A

**Vapor Pressure** N/A

**Vapor Density** N/A

**Saturated Vapor Conc.** N/A

**SG/Density** N/A

**Bulk Density** N/A

**Odor Threshold** N/A

**Volatile%** N/A

**VOC Content** N/A

**Water Content** N/A

**Solvent Content** N/A

**Evaporation Rate** N/A

**Viscosity** N/A

**Partition Coefficient** N/A

**Decomposition Temp.** N/A

**Flash Point °F** N/A

**Flash Point °C** N/A

**Explosion Limits** N/A

**Flammability** N/A

**Autoignition Temp** N/A

**Solubility** N/A

N/A = not available

**Section 10 - Stability and Reactivity****Stability****Stable**

Stable.

**Conditions of Instability**

May decompose on exposure to light. May decompose on exposure to air and moisture.

**Conditions to Avoid**

Tin.

**Materials to Avoid**

Strong reducing agents, Strong acids, Steel, Aluminum, Alkali metals, Brass, Magnesium, Zinc, Cadmium, Copper.

**Hazardous Decomposition Products****Hazardous Decomposition Products**

Hydrogen iodide, Potassium oxides.

**Hazardous Polymerization****Hazardous Polymerization**

Will not occur.

**Section 11 - Toxicological Information****Route of Exposure****Skin Contact**

Causes skin irritation.

**Skin Absorption**

May be harmful if absorbed through the skin.

**Eye Contact**

Causes eye irritation.

**Inhalation**

Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

**Ingestion**

May be harmful if swallowed.

**Sensitization****Respiratory**

May cause allergic respiratory reaction.

**Skin**

May cause allergic skin reaction.

**Target Organ(s) or System(s)**

Thyroid. Blood. Bone marrow.

**Signs and Symptoms of Exposure**

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.

**RTECS Number:** N/A

**Chronic Exposure - Carcinogen**

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**Chronic Exposure - Teratogen**

Result: May cause congenital malformation in the fetus.

**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. Observe all federal, state, and local environmental regulations.

**Section 14 - Transport Information****DOT**

**Proper Shipping Name:** Hydrochloric acid

**UN#:** 1789

**Class:** 8

**Packing Group:** Packing Group III

**Hazard Label:** Corrosive

**PIH:** Not PIH

**IATA**

Proper Shipping Name: Hydrochloric acid  
IATA UN Number: 1789  
Hazard Class: 8  
Packing Group: III

---

**Section 15 - Regulatory Information**

---

**EU Additional Classification**

Symbol of Danger: T  
Indication of Danger

Toxic.

**Risk Statements** R: 61 42/43 36/38

May cause harm to the unborn child. May cause sensitization by inhalation and skin contact. Irritating to eyes and skin.

**Safety Statements** S: 45 26 36/37/39

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

**US Classification and Label Text**

Indication of Danger

Toxic.

**Risk Statements**

Causes burns. May cause harm to the unborn child. May cause sensitization by inhalation and skin contact.

**Safety Statements**

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

**US Statements**

Target organ(s): Thyroid. Blood.

**United States Regulatory Information**

SARA Listed: No

**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: No

NDSL: No

---

**Section 16 - Other Information**

---

**Disclaimer**

For R&D use only. Not for drug, household or other uses.

**Warranty**

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 Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2006 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

RECEIVED

MAY 02 2006

Safety and Environmental  
Health

