

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006  
OSHA Regulation 29 CFR 1910.1200  
Canadian Regulation SOR/88-66

**Revision Date:** 2012-05-24  
**Reason for Revision:** Section 14 Updated

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

**Product Name:** HI 70407 Potassium Iodate

**Application:** Determination of Chlorine/Bleach in Water Samples

**Company Information (USA):**

Hanna Instruments, Inc.  
584 Park East Dr, Woonsocket, Rhode Island, USA 02895

**Technical Service Contact Information:**

1-800-426-6287 (8:30AM - 5:00PM ET)  
+1-401-766-4260 (8:30AM - 5:00PM ET)

**USA Emergency Contact Information:**

1-800-424-9300 (Chemtrec 24Hr. Emergency)

**International Emergency Contact Information:**

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

**E-mail Address:**

tech@hannainst.com

## SECTION 2: HAZARD IDENTIFICATION

Contact with combustible material may cause fire. Risk of serious damage to eyes.

**According to Regulation (EC) No. 1272/2008:**

**Classification:** Oxidizing Solids (Category 2)  
Skin Irritation (Category 2)  
Eye Irritation (Category 2)  
Specific Target Organ Toxicity, Single Exposure (Category 3)

**Signal Word:** Danger

**Pictograms:**



**Hazard Statements:** H272: May intensify fire; oxidiser.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

**Precaution Statements:** P220: Keep/Store away from clothing/ combustible materials.

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.

**According to Directives 67/548/EEC and 1999/45/EC:**

**Symbol:** O: Oxidizer  
Xi: Irritant

**R-phrases:** 8-41: Contact with combustible material may cause fire. Risk of serious damage to eyes.

## SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Potassium iodate	231-831-9	7758-05-6	Ox. Sol. 2 Skin Irrit. 2 Eye Irrit. 2 STOT SE 3	H272, H315, H319, H335 R: 8-41	-

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### **SECTION 4: FIRST AID MEASURES**

- After Inhalation:** Remove to fresh air.
- After Skin Contact:** Wash affected area with water and soap.
- After Eye Contact:** Rinse out with plenty of water for at least 15 minutes. If pain persists, summon medical advice.
- After Swallowing:** Wash out mouth with plenty of water. Obtain medical attention if feeling unwell.
- General Information:** Not available

### **SECTION 5: FIRE-FIGHTING MEASURES**

- Suitable Extinguishing Media:**  
Water Spray, Foam, Dry Powder, Carbon Dioxide
- Special Risks:**  
Non-combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
- Special Protective Equipment:**  
Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.
- Additional Information:**  
Contain escaping vapors with water.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

- Personal Precautions:**  
Avoid substance contact.
- Environmental Precautions:**  
None
- Additional Notes:**  
None

### **SECTION 7: HANDLING AND STORAGE**

- |                                     |  |
|-------------------------------------|--|
| <b>Handling:</b><br>No restrictions | <b>Storage:</b><br>Keep container closed and protected from direct sunlight. Store at room temperature (+15°C to +25°C). |
|-------------------------------------|--|

### **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

- Engineering:**  
Maintain general industrial hygiene practice.
- Personal Protective Equipment:**  
As appropriate to quantity handled
- |  |  |  |
|--|--|--|
| <b>Respiratory Protection:</b><br>Required when vapors/aerosols are generated. | <b>Protective Gloves:</b><br>Rubber or plastic | <b>Eye Protection:</b><br>Goggles or face mask |
|--|--|--|
- Industrial Hygiene:**  
Change contaminated clothing. Wash hands after working with substance.

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<b>Appearance:</b>	White powder	<b>Odor:</b>	Odorless	<b>Density at 20°C:</b>	1.12 g/cm <sup>3</sup>
<b>Melting Point:</b>	ND	<b>Boiling Point:</b>	100 °C	<b>Solubility:</b>	~ 5 g/100 mL
<b>pH at 20°C:</b>	8	<b>Explosion Limit:</b>	NA	<b>Flash Point:</b>	NA
<b>Thermal Decomp.:</b>	NA				

**SECTION 10: STABILITY AND REACTIVITY****Conditions to be Avoided:**

Heating

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

Alkali metals, ammonia, halogen-halogen compounds, fluorine, hydrogen peroxide, oxidizing agent

**SECTION 11: TOXICOLOGICAL INFORMATION****Product Toxicity**

Acute toxicity  
LD50 (oral, rat): 2779 mg/kg.  
Specific symptoms in animal studies:  
Eye irritation test (rabbit): Slight irritations (HSDB).  
Subacute to chronic toxicity  
No indication of carcinogenic activity.  
Bacterial mutagenicity: Salmonella typhimurium: negative (Lit.).

**Potential Health Effects:****Skin Contact:** Absorption.**Eye Contact:** Slight irritations.**Ingestion:** Absorption via: gastrointestinal tract. Other notes: After absorption of toxic quantities: drop in blood pressure, paralysis symptoms, agitation, vomiting.**Further Data:** NA**Component Toxicity****Acute Toxicity:**

Not Available

**Chronic Toxicity:**

Not Available

**Additional Data:**

Not Available

**SECTION 12: ECOLOGICAL INFORMATION**

Quantitative data on the ecological effect of this product is not available.

**Further Data:** No ecological problems are to be expected when the product is handled and used with due care and attention.**SECTION 13: DISPOSAL CONSIDERATIONS****Waste Disposal:** Chemical residues are generally classified as special waste and thus covered by local regulations. Contact local authorities or disposal companies for advice. Handle contaminated packaging in the same way as the substance itself.

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## **SECTION 14: TRANSPORTATION INFORMATION**

	<i>Land (ADR/RID):</i>	<i>Sea (IMDG):</i>	<i>Air (ICAO/IATA):</i>
<b>UN No.:</b>	1479	1479	1479
<b>Proper Shipping Name:</b>	Oxidizing solid, n.o.s. (potassium iodate)	Oxidizing solid, n.o.s. (potassium iodate)	Oxidizing solid, n.o.s. (potassium iodate)
<b>Class (Sub Risk):</b>	5.1	5.1	5.1
<b>Packing Group:</b>	II	II	II

## **SECTION 15: REGULATORY INFORMATION**

Complies with European Regulations (EC) No. 1907/2006 and No. 1272/2008.  
Complies with European Council Directives 67/548/EEC and 1999/45/EC.  
Complies with OSHA Regulation 29 CFR 1910.1200.  
Complies with Canadian Regulation SOR/88-66

## **SECTION 16: OTHER INFORMATION**

### ***Text of phrases under Section 3***

R8: Contact with combustible material may cause fire.  
R41: Risk of serious damage to eyes.  
H272: May intensify fire; oxidiser.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

### ***Revision Information***

**Revision Date:** 2012-05-24  
**Supersedes edition of:** 2010-12-01  
**Reason for revision:** Section 14 Updated

**Legend**  
NA: Not Applicable  
ND: Not Determined

**THE INFORMATION CONTAINED HEREIN IS BASED ON THE PRESENT STATE OF OUR KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF THE PROPERTIES OF THE PRODUCT.**