

**Revision Date:** 2008-12-01

**Reason for Revision:** REACH Compliance and General Update

### **SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY**

**Product Name:** HI 70404-0 Potassium Iodide

**Additional Product Codes:**

**Application:** For Chemical Analysis

**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**

Non-hazardous product as specified in Directives 67/548/EEC and 1999/45/EC.

### **SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

**Component:** Mixture of Crystalline Powders

**EC-No.:**

**CAS-No.:**

**Hazard:**

**Phrases:**

**Content:**

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

**After Inhalation:** Remove to fresh air. Call a physician if breathing becomes difficult.

**After Skin Contact:** Wash effected 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, provided person is conscious. 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. The following may develop in event of fire:  
Nitrogen Oxides

**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:**

None

**Environmental Precautions:**

None

**Additional Notes:**

None

**SECTION 7: HANDLING AND STORAGE**

**Handling:**

No restrictions

**Storage:**

Keep container closed and protected from direct sunlight. Store at room temperature (+15°C to +25°C).

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

**Ingredients:**

**Engineering:**

Maintain general industrial hygiene practice.

**Personal Protective Equipment:**

As appropriate to quantity handled.

**Respiratory Protection:**

Required when dusts are generated.

**Protective Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Change contaminated clothing. Wash hands after working with substance.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

**Appearance:** White powder

**Odor:** Odorless

**Density at 20° C:** ND

**Melting Point:** NA

**Boiling Point:** ND

**Solubility:** Soluble

**pH at 20° C:** 6.3 @ 30 g/L

**Explosion Limit:** NA

**Flash Point:** NA

**Thermal Decomp.:** NA

**SECTION 10: STABILITY AND REACTIVITY**

**Conditions to be Avoided:**

Heating

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Slightly hygroscopic.

**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**

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.).  
Bacterial mutagenicity: Escherichia coli: negative.

***In Case of Inhalation:***

***In Case of Skin Contact:*** Absorption.

***In Case of Eye Contact:*** Slight irritations.

***In Case of Ingestion:*** Absorption via: gastrointestinal tract. Other notes: After absorption of toxic quantities: drop in blood pressure, paralysis symptoms, agitation, vomiting.

***Further Data:*** The following applies to iodides in general: Sensitization possible in predisposed persons. The product should be handled with the usual care when dealing with chemicals.

**SECTION 12: ECOLOGICAL INFORMATION**

Biologic degradation:  
Methods for the determination of biodegradability are not applicable to inorganic substances.  
Behavior in environmental compartments:  
Distribution: log Pow: 0.04 (calculated).  
No bioaccumulation is to be expected (log Pow <1).  
Ecotoxic effects:  
Biological effects:  
Fish toxicity: Onchorhynchus mykiss LC50: 8960 mg/L /96 h (ECOTOX Database).

***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:*** Can be safely disposed of as an ordinary refuse.

**SECTION 14: TRANSPORTATION INFORMATION**

<b><i>Land:</i></b>	<b><i>Sea:</i></b>	<b><i>Air:</i></b>
Not subject to transport regulations	Not subject to transport regulations	Not subject to transport regulations

**SECTION 15: REGULATORY INFORMATION**

***Labeling according to EC Directives:***

***Symbol:*** Non-hazardous according to Directives 67/548/EEC and 1999/45/EC.

***R-phrases:***

***S-phrases:*** 22-24/25: Do not breathe dust. Avoid contact with skin and eyes.

***Contains:***

**SECTION 16: OTHER INFORMATION**

***Text of R-phrases under Section 3***

***Revision Information***

***Legend***

**Revision Date:** 2008-12-01

NA: Not Applicable

**Supersedes edition of:** 2006-03-24

ND: Not Determined

**Reason for revision:** REACH Compliance and General Update

**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.**