

**Revision Date:** 2012-05-21  
**Reason for Revision:** Section 14 Updated

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

**Product Name:** HI 38015B-0 Chloride HR Reagent B

**Application:** Determination of Chloride 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**

May cause sensitisation by skin contact. May cause heritable genetic damage. May cause cancer by inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

**Component:** Potassium Chromate

**EC-No.:** 232-140-5

**CAS-No.:** 7789-00-6

**Hazard:** N, Xi, Carc.Cat. 2, Muta. Cat. 2

**Phrases:** R: 36/37/38-43-46-49-50/53

**Content:** > 2.5 - < 10%

**SECTION 4: FIRST AID MEASURES**

**After Inhalation:** Remove to fresh air. Summon doctor.

**After Skin Contact:** Wash affected area with plenty of water. Immediately remove contaminated clothing.

**After Eye Contact:** Rinse out immediately with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers and seek medical advice.

**After Swallowing:** Wash out mouth with water, provided person is conscious. Call a physician.

**General Information:** Remove contaminated, soaked clothing immediately and dispose of safely.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Carbon Dioxide, Dry Chemical Powder, Appropriate Foam

**Special Risks:**

Development of hazardous combustion gases or vapors 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:**

Product itself is non-combustible. Cool container with spray water from a safe distance. Contain escaping vapors with water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

**Environmental Precautions:**

Do not discharge into the drains/surface waters/groundwater.

**Additional Notes:**

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:**

Avoid generation of vapors/aerosols. Work under hood.  
 Do not inhale substance.

**Storage:**

Tightly closed. In a well-ventilated place at +15 to +25 °C. Protect from light. Accessible only for authorized persons.

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

Type	Value	Source	Type	Value	Source
<b>Potassium Chromate</b>					
TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	Belgium	TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	Canada (Ontario)
TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	Canada (Quebec)	TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	France
TWA (8hr)	0.5 mg/m <sup>3</sup>	Greece	TWA (8hr)	0.025 mg (Cr)/m <sup>3</sup>	Netherlands
TWA (8hr)	0.1 mg (Cr)/m <sup>3</sup>	Poland	TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	Portugal
TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	Romania	TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	Spain
TWA (8hr)	0.05 mg (Cr)/m <sup>3</sup>	UK	TWA (8hr)	0.050 mg (Cr)/m <sup>3</sup>	USA (ACGIH)
TWA (8hr)	0.005 mg (Cr)/m <sup>3</sup>	USA (OSHA)			

**Engineering:**

Safety shower and eye wash.

**Personal Protective Equipment:**

As appropriate to quantity handled.

**Respiratory Protection:**

Required when vapors/aerosols are generated. Work under hood.

**Protective Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Wash thoroughly after handling. Remove and wash contaminated clothing promptly. Discard contaminated shoes.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

<b>Appearance:</b>	Yellow liquid	<b>Odor:</b>	Odorless	<b>Density at 20°C:</b>	~ 1.04 g/cm <sup>3</sup>
<b>Melting Point:</b>	NA	<b>Boiling Point:</b>	ND	<b>Solubility:</b>	Soluble
<b>pH at 20°C:</b>	8.75	<b>Explosion Limit:</b>	NA	<b>Flash Point:</b>	NA
<b>Thermal Decomp.:</b>	NA				

### **SECTION 10: STABILITY AND REACTIVITY**

**Conditions to be Avoided:**

Strong Heating. Stable in the recommended storage conditions.

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

Strong oxidizing agents

### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Product Toxicity**

Quantitative data on the toxicity of this product is not available.

**Potential Health Effects:**

- Inhalation:** Toxic if inhaled. Material is irritating to mucous membranes and upper respiratory tract.
- Skin Contact:** Skin irritations. toxic if absorbed through the skin.
- Eye Contact:** Eye irritations.
- Ingestion:** Toxic if swallowed.
- Further Data:** Target organ information  
Lungs. Kidneys. Liver. Blood. Eyes. Skin.  
Chronic exposure - mutagen  
Result: May alter genetic material. Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals.

**Component Toxicity**

**Acute Toxicity:**

**Potassium Chromate**

**LD50:** Oral - Mouse - 180 mg/kg

**Chronic Toxicity:**

**Potassium Chromate**

OSHA: Cancer Hazard  
NTP: Known to be carcinogenic to humans  
IARC Group 1: Carcinogenic to humans

**Additional Data:**

APPLICABLE TO PARTIAL COMPONENT:  
The following applies to Potassium Chromate – as the pure substance:  
Sensitisation  
Skin: May cause allergic skin reaction.

### **SECTION 12: ECOLOGICAL INFORMATION**

Quantitative data on the toxicity of this product is not available.

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Potassium chromate – as the pure substance:

Ecotoxicological effects

Test Type: LC50 Fish, Species: Leuciscus idus, time: 96 h: value: 0.029 mg/L

Test Type: EC50 Daphnia, Species: Daphnia magna, time: 48 h: value: 0.002 mg/L

**Further Data:** Harmful effects on aquatic organisms. May cause long-term adverse effects in the aquatic environment. Do not allow to enter waters, waste water, or soil!

### **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.

**SECTION 14: TRANSPORTATION INFORMATION**

	<i>Land (ADR/RID):</i>	<i>Sea (IMDG):</i>	<i>Air (ICAO/IATA):</i>
<b>UN No.:</b>	3287	3287	3287
<b>Proper Shipping Name:</b>	Toxic liquid, inorganic, n.o.s. (Potassium chromate)	Toxic liquid, inorganic, n.o.s. (Potassium chromate)	Toxic liquid, inorganic, n.o.s. (Potassium chromate)
<b>Class (Sub Risk):</b>	6.1	6.1	6.1
<b>Packing Group:</b>	III	III	III

**SECTION 15: REGULATORY INFORMATION**

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

**Symbol:** T: Toxic  
 N: Dangerous for the environment

**R-phrases:** 43-46-49-51/53: May cause sensitisation by skin contact. May cause heritable genetic damage. May cause cancer by inhalation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases:** 28.1-36/37-45-53-61: After contact with skin, wash immediately with plenty of water. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use. Avoid release to the environment. Refer to special instructions/safety data sheets.

**Contains:** Potassium chromate

**SECTION 16: OTHER INFORMATION**

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

43: May cause sensitization by skin contact.  
 46: May cause heritable genetic damage.  
 49: May cause cancer by inhalation.  
 36/37/38: Irritating to eyes, respiratory system and skin.  
 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

***Revision Information***

**Revision Date:** 2012-05-21  
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***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.**