

**Revision Date:** 2013-01-23  
**Reason for Revision:** Section 2 and 3 Updated

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

**Product Name:** HI 93740-0 Nickel Low Range Reagent B

**Application:** Determination of Nickel 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**

Highly flammable.

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

**Symbol:** F: Flammable

**R-phrases:** 11: Highly flammable.

**S-phrases:** 7-16: Keep container tightly closed. Keep away from sources of ignition - no smoking.

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

<b>Component:</b>	<b>EC No:</b>	<b>CAS No:</b>	<b>Hazard Class:</b>	<b>Phrases:</b>	<b>Concentration:</b>
Ethyl alcohol	200-578-6	64-17-5	Flam. Liq. 2 F	H225 R: 11	> 30% - < 50%
Polyethylene Glycol tert-Octylphenyl Ether	NA	9036-19-5	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Xi	H315, H319, H335 R: 36/37/38	> 5% - < 15%

**SECTION 4: FIRST AID MEASURES**

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

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

**After Eye Contact:** Rinse out with plenty of water. If pain persists, summon medical advice.

**After Swallowing:** If victim is still conscious, make him Drink plenty of water. Call in physician.

**General Information:** Not available

## Safety Data Sheet

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

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

***Suitable Extinguishing Media:***

Water spray, Carbon Dioxide, Dry Chemical Powder, Appropriate Foam.

***Special Risks:***

Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions. The following may develop in the event of fire: Carbon Monoxide, Carbon Dioxide Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

***Special Protective Equipment:***

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

***Additional Information:***

Use water spray to cool fire-exposed containers.

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

***Personal Precautions:***

Do not inhale vapors/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms. Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

***Environmental Precautions:***

Do not allow to enter sewerage system.

***Additional Notes:***

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

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

***Handling:***

Avoid generation of vapors/aerosols. Do not inhale substance.

***Storage:***

Store at room temperature (+15 to +25 °C). Tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, and open flame.

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

Type	Value	Source	Type	Value	Source
<b>Ethanol</b>					
TWA (8hr)	1907 mg/m <sup>3</sup>	Belgium	TWA (8hr)	1900 mg/m <sup>3</sup>	Canada (Ontario)
TWA (8hr)	1880 mg/m <sup>3</sup>	Canada (Quebec)	TWA (8hr)	1900 mg/m <sup>3</sup>	France
TWA (8hr)	960 mg/m <sup>3</sup>	Germany	TWA (8hr)	1900 mg/m <sup>3</sup>	Greece
TWA (8hr)	1900 mg/m <sup>3</sup>	Hungary	TWA (8hr)	260 mg/m <sup>3</sup>	Netherlands
TWA (8hr)	1900 mg/m <sup>3</sup>	Poland	TWA (8hr)	1000 ppm	Portugal
TWA (8hr)	1900 mg/m <sup>3</sup>	Romania	TWA (8hr)	1910 mg/m <sup>3</sup>	Spain
TWA (8hr)	1920 mg/m <sup>3</sup>	UK	TWA (8hr)	1000 ppm	USA (ACGIH)
TWA (8hr)	1000 ppm	USA (OSHA)			

**Engineering:**

Maintain general industrial hygiene practice.

**Personal Protective Equipment:**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

**Respiratory Protection:**

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

**Protective Gloves:**

Rubber or plastic

**Eye Protection:**

Goggles or face mask

**Industrial Hygiene:**

Change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

<b>Appearance:</b>	Orange liquid	<b>Odor:</b>	Alcohol-like	<b>Density at 20°C:</b>	0.95 g/cm <sup>3</sup>
<b>Melting Point:</b>	NA	<b>Boiling Point:</b>	ND	<b>Solubility:</b>	ND
<b>pH at 20°C:</b>	7.6	<b>Explosion Limit:</b>	ND	<b>Flash Point:</b>	ND
<b>Thermal Decomp.:</b>	NA				

**SECTION 10: STABILITY AND REACTIVITY**

**Conditions to be Avoided:**

Heating

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Explosive with air in a vaporous/gaseous state when heated.

**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:** Irritations of the mucous membranes.
- Skin Contact:** Irritations.
- Eye Contact:** Irritations.
- Ingestion:** Mucosal irritations.
- Further Data:** The product should be handled with usual care when dealing with chemicals.

**Component Toxicity**

**Acute Toxicity:**

**Chronic Toxicity:**

Not Available

**Ethanol**

**LD50:** Oral - Rat - 7060 mg/kg

**Additional Data:**

Not Available

**SECTION 12: ECOLOGICAL INFORMATION**

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

**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>	1170	1170	1170
<b>Proper Shipping Name:</b>	Ethanol solution	Ethanol solution	Ethanol solution
<b>Class (Sub Risk):</b>	3	3	3
<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

## Safety Data Sheet

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

### **SECTION 16: OTHER INFORMATION**

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

R11: Highly flammable.  
R36/37/38: Irritating to eyes, respiratory system and skin.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

#### ***Revision Information***

**Revision Date:** 2013-01-23  
**Supersedes edition of:** 2012-05-21  
**Reason for revision:** Section 2 and 3 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.**