

**Revision Date:** 2014-02-18  
**Reason for Revision:** (1st edition)

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

**Product Name:** HI 747-0 Copper Low Range Reagent

**Application:** Determination of Copper 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**

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

Non-hazardous product as specified in OSHA Regulation 29 CFR 1910.1200.

Non-hazardous product as specified in Canadian Regulation SOR/88-66.

Non-hazardous product as specified in Regulation (EC) 1272/2008.

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

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

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

Mixture of Crystalline Powders

**SECTION 4: FIRST AID MEASURES**

**After Inhalation:** Remove to fresh air. Consult a doctor if feeling unwell.

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

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

**After Swallowing:** Drink plenty of water. Obtain medical attention if feeling unwell.

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

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

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

**Special Risks:**

Non-combustible. Development of hazardous combustion gases or vapors possible in the event of fire. The following may develop in event of fire:  
Phosphorus Oxides, Nitrous Gases

**Special Protective Equipment:**

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

**Additional Information:**

Cool container with spray water from a safe distance. Contain escaping vapours with water. Prevent fire residues and contaminated fire fighting water from entering surface water or groundwater.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:**

Avoid formation of dusts. Do not inhale dusts.

**Environmental Precautions:**

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

**Additional Notes:**

Take up dry. Clean up affected area and dispose according to local regulation. Avoid generation of dusts.

**SECTION 7: HANDLING AND STORAGE**

**Handling:**

Accessible only for authorized persons.

**Storage:**

Store at room temperature (+15 to +25 °C recommended). Tightly closed. Protect from light and moisture. Store protected from solvents.

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

**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.

**Respiratory Protection:**

Required when dusts are generated. Work under hood.

**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:** ND

**Boiling Point:** NA

**Solubility:** Soluble

**pH at 20°C:** ~ 6.8 at 8 g/L in water

**Explosion Limit:** NA

**Flash Point:** NA

**Thermal Decomp.:** NA

**SECTION 10: STABILITY AND REACTIVITY**

**Conditions to be Avoided:**

Strong heating, light exposition.

**Hazardous Polymerization:**

Will not occur.

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

ND

**Further Information:**

Stable in the recommended storage conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**Product Toxicity**

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

**Potential Health Effects:**

- Skin Contact:** Slight irritations.
- Eye Contact:** Slight irritations.
- Ingestion:** Possible symptoms: nausea, vomiting, gastric pain, diarrhea, general feeling of sickness.
- Further Data:** No toxic effects are to be expected when the product is handled with the usual care when dealing with chemicals.

**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:** APPLICABLE TO PARTIAL COMPONENT:  
 May contribute to the eutrophication of drinking water supplies. 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.

**SECTION 14: TRANSPORTATION INFORMATION**

**Land:**

Not subject to transport regulations

**Sea:**

Not subject to transport regulations

**Air:**

Not subject to transport regulations

**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**

NA

**Revision Information**

**Revision Date:** 2014-02-18

**Supersedes edition of:** (1st edition)

**Reason for revision:** (1st edition)

**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.**