



## Safety Data Sheet

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

**Revision Date:** 2012-06-01  
**Reason for Revision:** Reviewed Only

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

**Product Name:** HI 7020 REDOX Solution for Platinum and Gold Electrodes

**Additional Product Codes:** HI 7020L  
HI 7020M

**Application:** Redox Solution for Platinum and Gold Electrodes.  
200 to 275 mV @ 25°C/77°F

**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.

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

**Component:** Quinhydrone

**EC-No.:** 203-387-6

**CAS-No.:** 106-34-3

**Hazard:** Xn, N

**Phrases:** R: 22-50

**Content:** > 0.1% < 5 %

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

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

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

**After Eye Contact:** Rinse out with water.

**After Swallowing:** Wash out mouth thoroughly with water and give plenty of water to drink. In severe cases obtain medical attention.

**General Information:** Not available

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

***Suitable Extinguishing Media:***

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

***Special Risks:***

Non-combustible.

***Special Protective Equipment:***

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

***Additional Information:***

NA

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

***Personal Precautions:***

Do not inhale vapors/aerosols.

***Environmental Precautions:***

Take up with liquid-absorbent material. Forward for disposal. Clean up affected area.

***Additional Notes:***

None

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

***Handling:***

No further requirements.

***Storage:***

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:***

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances 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:***

Change contaminated clothing. Wash hands after working with substance.

### **SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

***Appearance:*** Colorless liquid

***Odor:*** Odorless

***Density at 20°C:*** 1.01 g/cm<sup>3</sup>

***Melting Point:*** NA

***Boiling Point:*** ND

***Solubility:*** Soluble

***pH at 20°C:*** 4

***Explosion Limit:*** NA

***Flash Point:*** NA

***Thermal Decomp.:*** NA

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Strong Heating (above boiling point).

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

The generally known reaction partners of water

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

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

**Potential Health Effects:****Further Data:** Hazardous properties cannot be excluded, but are relatively unlikely because of the low concentration of the dissolved substances, when the product is handled appropriately.**Component Toxicity****Acute Toxicity:**

Not Available

**Chronic Toxicity:**

Not Available

**Additional Data:**

APPLICABLE TO PARTIAL COMPONENT:

The following applies to quinhydrone, as the pure substance:

Acute toxicity

LD 50 (oral, rat): 225 mg/kg.

**SECTION 12: ECOLOGICAL INFORMATION**

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to quinhydrone, as the pure substance:

Ecotoxic effects:

Biological effects:

Highly toxic for aquatic organisms.

Daphnia toxicity: Daphnia LC0: 0.4 mg/L.

Bacterial toxicity: E.coli LC0: 5 mg/L.

**Further Data:** 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****Land:**

Not subject to transport regulations

**Sea:**

Not subject to transport regulations

**Air:**

Not subject to transport regulations

**SECTION 15: REGULATORY INFORMATION****Labeling according to EC Directives:**

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

**S-phrases:** 61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

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**SECTION 16: OTHER INFORMATION*****Text of R-phrases under Section 3***

22: Harmful if swallowed.  
50: Very toxic to aquatic organisms.

***Revision Information***

**Revision Date:** 2012-06-01  
**Supersedes edition of:** 2009-06-10  
**Reason for revision:** Reviewed Only

***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.**