

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

**Revision Date:** 2012-05-31  
**Reason for Revision:** Section 14 Updated

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

**Product Name:** HI 84430-58 Additional Reagent

**Application:** Determination of Titratable Acidity

**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**

Harmful if swallowed. Risk of serious damage to eyes.

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

**Component:** Hydrogen Peroxide

**EC-No.:** 231-765-0

**CAS-No.:** 7722-84-1

**Hazard:** O, C

**Phrases:** R: 5-8-20/22-35

**Content:** > 30% - < 50%

**SECTION 4: FIRST AID MEASURES**

**After Inhalation:** Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen.

**After Skin Contact:** Wash affected area with water and soap. Remove contaminated clothing.

**After Eye Contact:** Flush with copious amounts of water for at least 15 minutes.

**After Swallowing:** Wash out mouth with plenty of water, provided person is conscious. Seek medical advice.

**General Information:** Not available

**SECTION 5: FIRE-FIGHTING MEASURES****Suitable Extinguishing Media:**

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

**Special Risks:**

Emits toxic fumes under fire conditions. Container explosion may occur under fire conditions.

**Special Protective Equipment:**

Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus. Prevent contact with skin and eyes.

**Additional Information:**

None

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal Precautions:

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

### Environmental Precautions:

Do not discharge into the drains, surface waters, or groundwaters.

### Additional Notes:

Take up with sand or vermiculite and place in closed containers for disposal. Clean up and ventilate affected area and dispose according to local regulation.

## SECTION 7: HANDLING AND STORAGE

### Handling:

Accessible only for authorized persons. Avoid the vapors inhalation. Avoid the contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

### Storage:

Tightly closed. Store at 2-8°C. Do not store near or allow with clothing and other combustible materials.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type	Value	Source	Type	Value	Source
<b>Hydrogen Peroxide (35%)</b>					
TWA (8hr)	1.4 mg/m <sup>3</sup>	Canada (Ontario)	TWA (8hr)	1.4 mg/m <sup>3</sup>	Canada (Quebec)
TWA (8hr)	1.5 mg/m <sup>3</sup>	Poland	TWA (8hr)	1.4 mg/m <sup>3</sup>	USA (ACGIH)
TWA (8hr)	1 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. Use respirators and components tested and approved under appropriate standards.

### Protective Gloves:

Rubber or plastic

### Eye Protection:

Goggles or face mask

### Industrial Hygiene:

Immediately change contaminated clothing. Use the safety shower and eye bath. Apply skin-protective barrier cream. Wash hands and face after working with substance.

## SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

<b>Appearance:</b>	Colorless liquid	<b>Odor:</b>	Odorless	<b>Density at 20°C:</b>	1.11 g/cm <sup>3</sup>
<b>Melting Point:</b>	ND	<b>Boiling Point:</b>	ND	<b>Solubility:</b>	Soluble
<b>pH at 20°C:</b>	NA	<b>Explosion Limit:</b>	NA	<b>Flash Point:</b>	NA
<b>Thermal Decomp.:</b>	NA				

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

**Conditions to be Avoided:**

Heating, light.

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

Oxygen

**Substances to be Avoided:**

Finely powdered metals, iron, iron salts or galvanized iron, brass, copper, copper alloys.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**Product Toxicity**

RTECS number: MX0899500

Acute toxicity

LD50 (Oral, Rat): 1.232mg/kg (35% Solution)

LD50 (Skin, Rabbit): >2.000mg/kg

(30% Solution)

Chemical, physical and toxicological properties have not been thoroughly investigated.

**Potential Health Effects:**

**Inhalation:** Harmful. Irritating to mucous membranes and upper respiratory tract.

**Skin Contact:** Irritations

**Eye Contact:** Irritations

**Ingestion:** Harmful

**Further Data:** The product should be handled with the care usual when dealing with chemicals.

**Component Toxicity**

**Acute Toxicity:**

Not Available

**Additional Data:**

Not Available

**Chronic Toxicity:**

Not Available

## **SECTION 12: ECOLOGICAL INFORMATION**

Quantitative data on the ecological effect of this product are not available.

**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**

	<b>Land (ADR/RID):</b>	<b>Sea (IMDG):</b>	<b>Air (ICAO/IATA):</b>
<b>UN No.:</b>	2014	2014	2014
<b>Proper Shipping Name:</b>	Hydrogen peroxide, aqueous solution	Hydrogen peroxide, aqueous solution	Hydrogen peroxide, aqueous solution
<b>Class (Sub Risk):</b>	5.1 (8)	5.1 (8)	5.1 (8)
<b>Packing Group:</b>	II	II	II

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### **SECTION 15: REGULATORY INFORMATION**

**Labeling according to EC Directives:**

**Symbol:** Xn: Harmful

**R-phrases:** 22-41: Irritating to skin. Risk of serious damage to eyes.

**S-phrases:** 26-39: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye and face protection.

**Contains:** Hydrogen Peroxide

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

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

5: Heating may cause an explosion.  
8: Contact with combustible material may cause fire.  
20: Harmful by inhalation.  
35: Causes severe burns.

**Revision Information**

**Revision Date:** 2012-05-31  
**Supersedes edition of:** 2009-06-10  
**Reason for revision:** Section 14 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.**