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**HI 3844C-0**  
**Hydrogen Peroxide Reagent C**

# Safety Data Sheet

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

**Revision Date:** 2009-06-10

**Reason for Revision:** 29 CFR 1910.1200 and SOR/88-66 Compliance

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

**Product Name:** HI 3844C-0 Hydrogen Peroxide Reagent C

**Application:** Determination of Hydrogen Peroxide 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](mailto: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:** Chloroform

**EC-No.:** 200-663-8

**CAS-No.:** 67-66-3

**Hazard:** Xn, Xi, Carc. Cat. 3

**Phrases:** R: 22-38-40-48/20/22

**Content:** > 0.1 % - < 1.0 %

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

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

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

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

**After Swallowing:** Consult doctor 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. Ambient fire may liberate hazardous vapors. The following may develop in event of fire: Sulfur Dioxide

**Special Protective Equipment:**

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

**Additional Information:**

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or groundwater.

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

### ***Personal Precautions:***

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

### ***Environmental Precautions:***

NA

### ***Additional Notes:***

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation.

## **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.

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

<b>Type</b>	<b>Value</b>	<b>Source</b>	<b>Type</b>	<b>Value</b>	<b>Source</b>
<b>Chloroform</b>					
TWA (8hr)	10 mg/m <sup>3</sup>	Belgium	TWA (8hr)	49 mg/m <sup>3</sup>	Canada (Ontario)
TWA (8hr)	24.4 mg/m <sup>3</sup>	Canada (Quebec)	TWA (8hr)	10 mg/m <sup>3</sup>	France
TWA (8hr)	2.5 mg/m <sup>3</sup>	Germany	TWA (8hr)	50 mg/m <sup>3</sup>	Greece
TWA (8hr)	10 mg/m <sup>3</sup>	Hungary	TWA (8hr)	10 mg/m <sup>3</sup>	Italy
TWA (8hr)	5 mg/m <sup>3</sup>	Netherlands	TWA (8hr)	8 mg/m <sup>3</sup>	Poland
TWA (8hr)	10 ppm	Portugal	TWA (8hr)	10 mg/m <sup>3</sup>	Romania
TWA (8hr)	10 mg/m <sup>3</sup>	Spain	TWA (8hr)	9.9 mg/m <sup>3</sup>	UK
TWA (8hr)	10 ppm	USA (ACGIH)	TWA (8hr)	50 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.

### ***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**

<b>Appearance:</b>	Colorless liquid	<b>Odor:</b>	Odorless	<b>Density at 20° C:</b>	1.0 g/cm <sup>3</sup>
<b>Melting Point:</b>	ND	<b>Boiling Point:</b>	NA	<b>Solubility:</b>	Soluble
<b>pH at 20° C:</b>	~ 7	<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 (decomposition).

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

Nitrates, nitrites, peroxi compounds, fluorine, acids, strong oxidizing agents

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

**Product Toxicity**

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

**Potential Health Effects:**

**Inhalation:** Slight mucosal irritations.

**Skin Contact:** Slight irritations.

**Eye Contact:** Slight irritations.

**Ingestion:** Irritations of mucus membrane in the mouth, pharynx esophagus and gastrointestinal tract.

**Further Data:** Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

**Component Toxicity**

**Acute Toxicity:**

**Chloroform**

**LC50:** Inhalation - Rat - 47702 mg/m<sup>3</sup>

**LD50:** Oral - Rat - 695 mg/kg

**Additional Data:**

Not Available

**Chronic Toxicity:**

**Chloroform**

NTP: Reasonably anticipated to be carcinogenic to humans

IARC Group 2B: Possibly carcinogenic to humans

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

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

**Further Data:** 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:** Can be safely disposed of as ordinary refuse.

### **SECTION 14: TRANSPORTATION INFORMATION**

**Land:**

ADR/RID: 9, II

UN-No.: 3316

Name : CHEMICAL KIT

**Sea:**

IMDG: 9/UN 3316/PG II

Name : CHEMICAL KIT

**Air:**

ICAO/IATA: 9/UN 3316/PG II

Name: CHEMICAL KIT

Transport data applies to the COMPLETE KIT!

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

**Labeling according to EC Directives:**

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

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

NA

***Revision Information*****Revision Date:** 2009-06-10**Supersedes edition of:** 2008-12-01**Reason for revision:** 29 CFR 1910.1200 and SOR/88-66  
Compliance***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.**