

# Safety Data Sheet

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

**Revision Date:** 2013-08-15  
**Reason for Revision:** Regulation (EC) No. 1272/2008 Compliance

## SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

**Product Name:** HI 93767B Digestion Vial

**Application:** Determination of Nitrogen 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

Causes skin irritation. Causes serious eye irritation.

**According to Regulation (EC) No. 1272/2008:**

**Classification:** Eye Irritation (Category 2)  
Skin Irritation (Category 2)

**Signal Word:** Warning

**Pictograms:**



**Hazard Statements:** H315: Causes skin irritation.

H319: Causes serious eye irritation.

**Precaution Statements:** P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

**Symbol:** Xi: Irritant

**R-phrases:** 36/38: Irritating to eyes and skin.

**S-phrases:** 26-37/39-45: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

## SECTION 3: COMPOSITION AND COMPONENT INFORMATION

Component:	EC No:	CAS No:	Hazard Class:	Phrases:	Concentration:
Sodium hydroxide	215-185-5	1310-73-2	Skin Corr. 1A C	H314 R: 35	> 0.5% - < 2.0%

## 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 immediately with plenty of water and seek medical advice.

**After Swallowing:** Immediately drink plenty of water (if necessary several liters). Seek medical advice.

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

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

**Suitable Extinguishing Media:**

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

**Special Risks:**

Ambient fire may liberate hazardous vapors.

**Special Protective Equipment:**

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

**Additional Information:**

Non-combustible.

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

**Personal Precautions:**

Do not inhale vapors. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

**Environmental Precautions:**

Take up with liquid-absorbent material.

**Additional Notes:**

Clean up affected area and dispose according to local regulation. Render harmless: neutralize with diluted sulfuric acid.

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

**Handling:**

Cannot be stored indefinitely.

**Storage:**

Tightly closed. Store at room temperature (+15 to +25 °C recommended). Protect from light. Accessible only for authorized persons.

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

Type	Value	Source	Type	Value	Source
<b>Sodium Hydroxide</b>					
Ceiling	2 mg/m <sup>3</sup>	Belgium	Ceiling	2 mg/m <sup>3</sup>	Canada (Ontario)
Ceiling	2 mg/m <sup>3</sup>	Canada (Quebec)	TWA (8hr)	2 mg/m <sup>3</sup>	France
TWA (8hr)	2 mg/m <sup>3</sup>	Greece	TWA (8hr)	2 mg/m <sup>3</sup>	Hungary
TWA (8hr)	0.5 mg/m <sup>3</sup>	Poland	Ceiling	2 mg/m <sup>3</sup>	Portugal
TWA (8hr)	1 mg/m <sup>3</sup>	Romania	Ceiling	2 mg/m <sup>3</sup>	Spain
TWA (15min)	2 mg/m <sup>3</sup>	UK	Ceiling	2 mg/m <sup>3</sup>	USA (ACGIH)
TWA (8hr)	2 mg/m <sup>3</sup>	USA (OSHA)			

**Engineering:**

Maintain general industrial hygiene practice.

**Personal Protective Equipment:**

As appropriate to quantity 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.

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

<b>Appearance:</b>	Colorless liquid	<b>Odor:</b>	Odorless	<b>Density at 20°C:</b>	1.01 g/cm <sup>3</sup>
<b>Melting Point:</b>	NA	<b>Boiling Point:</b>	ND	<b>Solubility:</b>	Soluble
<b>pH at 20°C:</b>	~ 13	<b>Explosion Limit:</b>	NA	<b>Flash Point:</b>	NA
<b>Thermal Decomp.:</b>	NA				

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

**Conditions to be Avoided:**

Strong Heating

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Stable

**Hazardous Decomposition Products:**

In the event of fire: See section 5.

**Substances to be Avoided:**

Ammonium compounds (formed could be: ammonia), acids, 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:**

<b>Inhalation:</b>	Mucosal irritations, coughing, dyspnoea.
<b>Skin Contact:</b>	Irritant effects.
<b>Eye Contact:</b>	Irritant effects.
<b>Ingestion:</b>	Irritations of mucous membranes in the mouth, pharynx, esophagus, gastrointestinal tract.
<b>Further Data:</b>	The product should be handled with the usual care when dealing with chemicals.

**Component Toxicity**

**Acute Toxicity:**

Not Available

**Additional Data:**

Not Available

**Chronic Toxicity:**

Not Available

## **SECTION 12: ECOLOGICAL INFORMATION**

Biological effects: toxic effects on fish and plankton. Harmful effect due to pH shift. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants.

Fish toxicity: fish LC50: 189 mg/L (1N solution = 40 g/L).

**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:** 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

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### **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***

R35: Causes severe burns.  
H314: Causes severe skin burns and eye damage.

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

**Revision Date:** 2013-08-15  
**Supersedes edition of:** 2012-04-27  
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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.**