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HI 3832/R1 Iodine Reagent 1

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 3832 Iodine Reagent 1

Application: Determination of Iodine in Water Samples

Company Information (USA):

Technical Service Contact Information:

USA Emergency Contact Information: International Emergency Contact Information: E-mail Address:

Hanna Instruments, Inc. 584 Park East Dr, Woonsocket, Rhode Island, USA 02895

> 1-800-426-6287 (8:30AM - 5:00PM ET) +1-401-766-4260 (8:30AM - 5:00PM ET)

1-800-424-9300 (Chemtrec 24Hr. Emergency)

+1-703-527-3887 (Chemtrec 24Hr. Emergency)

tech@hannainst.com

HAZARD IDENTIFICATION SECTION 2:

Causes severe burns.

SECTION 3:	COMPOSITION AND COMPONENT INFORMATION				
Component:	Sodium Hydroxide				
EC-No.:	215-185-5				
CAS-No.:	1310-73-2				
Hazard:	c				
Phrases:	R: 35				
Content:	> 5% - < 10%				
SECTION 4:	FIRST	AID MEASURES			
After Inhalation	n:	Remove to fresh air. Give artificial respiration if victim is not breathing. Give oxygen if breathing is difficult.			
After Skin Contact:		Flush affected area with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician			
After Eye Contact:		Wash with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.			
After Swallowing:		If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately. Do not induce vomiting. Do not attempt to neutralize.			
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. Hazardous Decomposition Products: Sodium/Sodium Oxides

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.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:

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

Environmental Precautions:

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

Additional Notes:

Take up with liquid-absorbent material. Clean up affected area and dispose according to local regulation. Render harmless: neutralize with diluted sulfuric acid.

SECTION 7: HANDLING AND STORAGE

Handling:

Storage:

Cannot be stored indefinitely. Accessible only for authorized persons.

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

EXPOSURE CONTROL/PERSONAL PROTECTION SECTION 8:

Туре	Value	Source	Туре	Value	Source			
Sodium Hydroxide								
Ceiling	2 mg/m³	Belgium	Ceiling	2 mg/m³	Canada (Ontario)			
Ceiling	2 mg/m³	Canada (Quebec)	TWA (8hr)	2 mg/m³	France			
TWA (8hr)	2 mg/m³	Greece	TWA (8hr)	2 mg/m³	Hungary			
TWA (8hr)	0.5 mg/m³	Poland	Ceiling	2 mg/m³	Portugal			
TWA (8hr)	1 mg/m³	Romania	Ceiling	2 mg/m³	Spain			
TWA (15min)	2 mg/m³	UK	Ceiling	2 mg/m³	USA (ACGIH)			
TWA (8hr)	2 mg/m³	USA (OSHA)						
Engineering:								
Maintain general industrial hygiene practice. Personal Protective Equipment:								
As appropriate to quantity handled.								
Respiratory	Protection:	Protective GI	oves:		Eye Protection:			

Required when vapors/aerosols are Rubber or plastic Goggles or face mask generated. Work under hood.

Industrial Hygiene:

Contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

PHYSICAL/CHEMICAL PROPERTIES SECTION 9: Colorless liquid Odor: Appearance: Odorless

Density at 20° C: 1.15 g/cm3 **Boiling Point:** Solubility: **Melting Point:** ND ND Soluble pH at 20° C: Explosion Limit: Flash Point: NA > 14 NA Thermal Decomp.: NA



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SECTION 10: STABILITY AND REACTIVITY

Conditions to be Avoided:

Strong Heating

Hazardous Polymerization:

Will not occur.

Further Information:

Not available

Hazardous Decomposition Products:

In the event of fire: See section 5. *Substances to be Avoided:*

Strong oxidizing agents, strong acids, organic materials

SECTION 11: TOXICOLOGICAL INFORMATION

Product Toxicity

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

Potential Health Effects:

Inhalation:	Mucosal irritations, coughing, dyspnoea. May be harmful if inhaled.			
Skin Contact:	Burns, necrosis.			
Eye Contact:	Burns, necrosis. Risk of blindness!			
Ingestion:	Burns of mouth, mucous membrane, esophagus. Risk of perforation in the esophagus and stomach. May be harmful if swallowed.			

Component Toxicity

Acute Toxicity:

Additional Data:

Not Available

Chronic Toxicity: Not Available

APPLICABLE TO MAIN COMPONENT: The following applies to Sodium Hydroxide, as the pure substance: Acute toxicity LD50 Intraperitoneal, mouse: 40 mg/kg Irritation data Skin, Rabbit: 500 mg /24 hr Remarks: Severe irritation effect Eyes, Rabbit: 0.5 mg / 24 hr Remarks: Severe irritation effect Signs and symptoms of exposure Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Chronic exposure - mutagen Cytogenetic analysis Hamster: 10 mmol/L. Cell type: lung Hamster: 16 mmol/L. Cell type: ovary



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SECTION 12: ECOLOGICAL INFORMATION

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

APPLICABLE TO PARTIAL COMPONENT:

The following applies to Sodium Hydroxide – as the pure substance:

Biologic degradation:

Methods for the determination of biodegradability are not applicable to inorganic substances.

Behavior in environmental compartments: Concentration in organisms is not to be expected.

Ecotoxic effects:

Biological effects: Harmful effect on aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Neutralization possible in waste water treatment plants. Fish toxicity: Onchorhynchus mykiss LC50: 45.4 mg/L /96 h (in hard water); L. macrochirus LC50: 99 mg/L /48 h; Fish toxicity: fish LC50: 189 mg/L (1N solution = 40 g/L).

Daphnia toxicity: Daphnia magna EC50: 76 mg/L /24 h.

Further Data: Do not allow to enter waters, waste waters, 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.

Sea:

SECTION 14: TRANSPORTATION INFORMATION

Land:

ADR/RID: 9, II UN-No.: 3316 Name: CHEMICAL KIT IMDG: 9/UN 3316/PG II Name : CHEMICAL KIT Marine pollutant: no Severe marine pollutant: no 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:

 Symbol:
 C: Corrosive

 R-phrases:
 35: Causes severe burns.

 S-phrases:
 26-36/37/39-45: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

 Contains:
 Sodium Hydroxide

SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3	Revision Information	Revision Information			
35: Causes severe burns.	Revision Date:	2009-06-10	NA: Not Applicable		
	Supersedes edition of:	2008-12-01	ND: Not Determined		
	Reason for revision:	29 CFR 1910.1200 and SOR/88-66 Compliance			
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.