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Safety Data Sheet

According to Regulation (EC) No. 1907/2006

Revision Date:2008-12-01Reason for Revision:REACH Compliance and General Update

SECTION 1: IDENTIFICATION OF THE PRODUCT AND COMPANY

Product Name: HI 5013 pH 13.00 Buffer Solution

Application: pH Buffer Solution

Company Information (USA):

Technical Service Contact Information:

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

Additional Product Codes:

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

SECTION 2: HAZARD IDENTIFICATION

Irritating to eyes and skin.

<u>SECTION 3:</u> Component:	COMPOSITION AND COMPONENT INFORMATION Sodium Hydroxide
EC-No.:	215-185-5
CAS-No.:	1310-73-2
Hazard:	c
Phrases:	R: 35
Content:	> 0.5% - < 2%
SECTION 4: After Inhalation	FIRST AID MEASURES n: Remove to fresh air.

After Inhalation:	Remove to fresh air.		
After Skin Contact:	Wash effected area with plenty of water. Remove contaminated clothing.		
After Eye Contact:	Rinse out immediately with plenty of water and seek medical advice.		
After Swallowing:	Make victim drink plenty of water, avoid vomiting. Immediately seek medical advice. Do not attempt to neutralize.		
General Information:	Not available		

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

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

Special Risks:

Development of hazardous combustion gases or vapors possible in the event of fire.

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.



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OFOTION A							
<u>SECTION 6:</u> Personal Preca	ACCIDENTAL RELEAS	E MEASURES					
Do not inhale vapors/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms. Environmental Precautions:							
Do not allow to enter sewerage system.							
Additional Note	s:						
Take up with lid sulfuric acid.	quid-absorbent material. Clean ι	up affected area and disp	ose according to local	regulation. Render harmles	s: neutralize with diluted		
SECTION 7:	HANDLING AND STOR						
Handling:			orage:				
Avoid generation substance.	on of vapors/aerosols. Do not inl		Store at room tempera and well-ventilated place	ture (+15 to +25 °C). Tightly ce.	closed in a dry		
SECTION 8:	EXPOSURE CONTROL	PERSONAL PROT	ECTION				
Ingredients:							
USA - OSHA Name: Sodium Type: PEL Value: 2 mg/m [:]	-						
Engineering:							
Safety shower	and eye wash.						
Personal Protec	ctive Equipment:						
	ning should be selected specificates a specificate specificates of the protective clothing the second s				azardous substances		
Respiratory Protection:		Protective Glove	Protective Gloves:		Eye Protection:		
	vapors/aerosols are	Rubber or plastic	;	Goggles or f	ace mask		
•	rk under hood.						
Industrial Hygie	rk under hood. e ne:	nhu alein protoctiva harria	r ereem Week hande	and face ofter working with			
Industrial Hygie	rk under hood.	pply skin-protective barrie	r cream. Wash hands	and face after working with			
Industrial Hygie Immediately ch	rk under hood. e ne:		r cream. Wash hands	and face after working with			
Industrial Hygie Immediately ch	rk under hood. e ne: nange contaminated clothing. Ap		r cream. Wash hands				
Industrial Hygie Immediately ch SECTION 9:	rk under hood. ene: hange contaminated clothing. Ap PHYSICAL/CHEMICAL	PROPERTIES			substance.		
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SECTION 11: TOXICOLOGICAL INFORMATION

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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 Acute toxicity Quantitative data on the toxicity of this product are not available. Specific symptoms in animal studies: Eye irritation test (rabbit): burns (RTECS). Skin irritation test (rabbit): burns (RTECS). Subacute to chronic toxicity Mutagenicity (mammal cell test): micronucleus negative. (Lit.) Bacterial mutagenicity: Escherichia coli: negative. (Lit.) No teratogenic effect in animal experiments. (Lit.) In Case of Inhalation: Mucosal irritations, coughing, dyspnoea. In Case of Skin Contact: Irritations. In Case of Eye Contact: Irritations. In Case of Ingestion: Irritations of mouth, mucous membrane, esophagus. Further Data: Further hazardous properties cannot be excluded. The product should be handled with the usual care when dealing with chemicals. SECTION 12: ECOLOGICAL INFORMATION Quantitative data on the ecotoxicity 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) (IUCLID). L.macrochirus LC50: 99 mg/L /48 h (IUCLID). Daphnia toxicity: Daphnia magna EC50: 76 mg/L /24 h (External MSDS). 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: Sea: Air: Not subject to transport regulations Not subject to transport regulations Not subject to transport regulations SECTION 15: REGULATORY INFORMATION

Labeling according to EC Directives:

Symbol: Xi: Irritant

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

S-phrases: 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Contains:



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SECTION 16: OTHER INFORMATION

Text of R-phrases under Section 3	Revision Information		Legend			
35: Causes severe burns.	Revision Date:	2008-12-01	NA: Not Applicable			
	Supersedes edition of:	of: 2006-05-04 ND: 1	ND: Not Determined			
	Reason for revision: REACH Compliance and General Update		9			
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.