



Buffer Standard Solution pH 13.000 Safety Data Sheet

According to Regulation (EC) No. 1907/2006

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

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

Product Name: HI 6013 Buffer Standard Solution pH 13.000 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: HI 6013-01

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)

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HI 6013

#### HAZARD IDENTIFICATION **SECTION 2:**

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:	FIRST AID MEASURES

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

#### 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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SECTION 6:	ACCIDENTAL RELEASE	MEASURES			
Personal Precau	tions:				
Do not inhale vapors/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms. Environmental Precautions:					
Do not allow to Additional Notes	enter sewerage system. s:				
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 STORA	GE			
Handling:		Si	torage:		
Avoid generation substance.	n of vapors/aerosols. Do not inha		Store at room tempera and well-ventilated pla	ature (+15 to +25 °C). Tightly ace.	r closed in a dry
SECTION 8:	EXPOSURE CONTROL/F	PERSONAL PROT	ECTION		
Ingredients:					
USA - OSHA Name: Sodium Type: PEL Value: 2 mg/m <sup>3</sup>	Hydroxide				
Engineering:					
Safety shower a Personal Protect	,				
Protective clothi	ng should be selected specifical sistance of the protective clothin	y for the working place	, depending on conce	entration and quantity of the h	azardous substances
Respiratory Prot		Protective Glove		Eve Protection	on:
	vapors/aerosols are	Rubber or plastic		Goggles or t	
Industrial Hygiei					
Immediately cha	ange contaminated clothing. App	ly skin-protective barrie	er cream. Wash hands	s and face after working with	substance.
SECTION 9:	PHYSICAL/CHEMICAL P	ROPERTIES			
Appearance:	Colorless liquid	Odor:	Odorless	Density at 20° (	<b>:</b> 1.0 g/cm <sup>3</sup> at 25°C
Melting Point:	NA	<b>Boiling Point:</b>	> 100 °C	Solubility:	Soluble
pH at 20° C:	13.000 at 25°C	Explosion Limit:	ND	Flash Point:	ND
Thermal Decom	<b>d.:</b> NA				
SECTION 10:	STABILITY AND REACT	IVITY			
Conditions to b	e Avoided:	ŀ	lazardous Decompo	sition Products:	
Heating	Heating In the event of fire: See section 5.				
Hazardous Polymerization:		Substances to be Avoided:			
Will not occur. Ammonium compounds: formed could be: ammonia acids			nia acids		
Further Informa	tion:				
Unsuitable working materials: various metals.					
Unsuitable wor	ing materialer randae metaler				



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

Quantitative data on the toxicity of this product is not available.				
	CABLE TO PARTIAL COMPONENT:			
The following applies to Sod	ium hydroxide – as the pure substance			
Acute toxicity				
	city of this product are not available.			
Specific symptoms in anima				
Eye irritation test (rabbit): bu				
Skin irritation test (rabbit): burns (RTECS).				
Subacute to chronic toxicity	act): micropuslous pogetive (Lit)			
	Mutagenicity (mammal cell test): micronucleus negative. (Lit.) Bacterial mutagenicity: Escherichia coli: negative. (Lit.)			
0,	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. Property of this product must be anticipated on the basis from the components of the preparation:			
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

<u>SECTION 14:</u> TRANSPORTATION INFORMATION						
Land:	Sea:	Air:				
Not subject to transport regulations	Not subject to transport regulations	Not subject to transport regulations				
SECTION 15: REGULATORY INFOR	MATION					
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:	2006-05-10	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.