



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)

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

tech@hannainst.com

HI 6013

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

Irritating to eyes and skin.

| <u>SECTION 3:</u><br>Component: | COMPOSITION AND COMPONENT INFORMATION<br>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.<br>Environmental Precautions:                               |  |                           |  |  |  |
| Do not allow to<br>Additional Notes   | enter sewerage system.<br>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<br>and well-ventilated pla | ature (+15 to +25 °C). Tightly<br>ace. | r closed in a dry                      |
| SECTION 8:  | EXPOSURE CONTROL/F   | PERSONAL PROT             | ECTION   |  |  |
| Ingredients:  |  |                           |  |  |  |
| USA - OSHA<br>Name: Sodium<br>Type: PEL<br>Value: 2 mg/m <sup>3</sup>   | Hydroxide  |                           |  |  |  |
| Engineering:  |  |                           |  |  |  |
| Safety shower a<br>Personal Protect   | ,  |                           |  |  |  |
| Protective clothi   | ng should be selected specifical<br>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.)<br>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<br>KNOWLEDGE. IT CHARACTERIZES THE PRODUCT WITH REGARD TO THE<br>APPROPRIATE SAFETY PRECAUTIONS. IT DOES NOT REPRESENT A GUARANTEE OF |                        |                                     |                    |  |  |  |

THE PROPERTIES OF THE PRODUCT.