

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

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

**Product Name:** Alkali Azide Reagent

**Additional Product Codes:**

**Application:** Alkali Azide Reagent

**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**

Harmful if swallowed. Contact with acids liberates very toxic gas. Causes severe burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SECTION 3: COMPOSITION AND COMPONENT INFORMATION**

**Component:** Sodium Hydroxide                      Sodium Azide

**EC-No.:** 215-185-5                                      247-852-1

**CAS-No.:** 1310-73-2                                    26628-22-8

**Hazard:** C    T+; N

**Phrases:** R: 35    R: 28-32-50/53

**Content:** > 5%    < 1.0%

**SECTION 4: FIRST AID MEASURES**

**After Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**After Skin Contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

**After Eye Contact:** In case of contact with eyes, flush 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.

**General Information:**

**SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Dry chemical powder. Do NOT use water.

**Special Risks:**

Emits toxic fumes under fire conditions.

**Special Protective Equipment:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Additional Information:**

NA

**SECTION 6: ACCIDENTAL RELEASE MEASURES****Personal Precautions:**

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

**Environmental Precautions:**

Ventilate area and wash spill site after material pickup is complete. Absorb on sand or vermiculite and place in closed containers for disposal.

**Additional Notes:**

None

**SECTION 7: HANDLING AND STORAGE****Handling:**

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

**Storage:**

Keep tightly closed. Store in a cool dry place. Do NOT allow contact with water.

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

EXPOSURE LIMITS - DENMARK

OEL TWA  
0.3 mg/m<sup>3</sup>

USA OSHA  
PEL 2 mg/m<sup>3</sup>

USA ACGIH  
TLV 2 mg/m<sup>3</sup>

UK  
Name: Sodium Azide  
Type: LTEL  
Value: 0.1 mg/m<sup>3</sup>

**Engineering:**

Safety shower and eye bath. Use only in chemical fume hood.

**Personal Protective Equipment:**

Faceshield

**Respiratory Protection:**

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

**Industrial Hygiene:**

Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Protective Gloves:**

Compatible chemical-resistant gloves.

**Eye Protection:**

Chemical safety goggles.

**SECTION 9: PHYSICAL/CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear liquid	<b>Odor:</b>	Odorless	<b>Density at 20° C:</b>	1.5 g/cm <sup>3</sup>
<b>Melting Point:</b>	NA	<b>Boiling Point:</b>	>100 °C	<b>Solubility:</b>	Soluble
<b>pH at 20° C:</b>	>14	<b>Explosion Limit:</b>	NA	<b>Flash Point:</b>	NA
<b>Thermal Decomp.:</b>	NA				

**SECTION 10: STABILITY AND REACTIVITY****Conditions to be Avoided:**

Air sensitive

**Hazardous Polymerization:**

Will not occur.

**Further Information:**

Not available

**Hazardous Decomposition Products:**

Sodium Oxides

**Substances to be Avoided:**

Water, acids, organic materials, chlorinated solvents, aluminum, phosphorus, tin/tin oxides, zinc, lead, copper.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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

**Irritation Data:**

Skin, Rabbit, 500 mg, 24hrs

Remarks: Severe irritation effect.

Eyes, Rabbit, 0.5 mg, 24 hours

Remarks: Severe Irritation effect.

**In Case of Inhalation:** Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.**In Case of Skin Contact:** Causes burns.**In Case of Eye Contact:** Causes burns.**In Case of Ingestion:** Harmful if swallowed.**Further Data:****SECTION 12: ECOLOGICAL INFORMATION**

Quantitative data on the ecological effect of this product is not available.

**Further Data:****SECTION 13: DISPOSAL CONSIDERATIONS****Waste Disposal:** Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

**Land:**

RID/ADR  
 UN#: 1824  
 Class: 8  
 PG: II  
 Proper Shipping Name: Sodium hydroxide, solution

**Sea:**

IMDG  
 UN#: 1824  
 Class: 8  
 PG: II  
 Proper Shipping Name: Sodium hydroxide, solution  
 Marine Pollutant: No  
 Severe Marine Pollutant: No

**Air:**

Class: 8  
 PG: II  
 Proper Shipping Name: Sodium hydroxide solution  
 Inhalation Packing Group I: No

Transport data applies to the COMPLETE KIT!

**SECTION 15: REGULATORY INFORMATION**

**Labeling according to EC Directives:**

**Symbol:** C: Corrosive  
 Xn: Harmful

**R-phrases:** 22-32-35-52/53: Harmful if swallowed. Contact with acids liberates very toxic gas. Causes severe burns. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases:** 26-28-37/39-45-60-61: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show label where possible). This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheet.

**Contains:** Sodium Azide  
 Sodium Hydroxide

**SECTION 16: OTHER INFORMATION**

**Text of R-phrases under Section 3**

28: Very toxic if swallowed.  
 32: Contact with acids liberates very toxic gas  
 35: Causes severe burns.  
 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Revision Information**

**Revision Date:** 2008-12-01  
**Supersedes edition of:** 2008-06-01  
**Reason for revision:** REACH Compliance and General Update

**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.**