

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: Alkali Azide Reagent

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: Not available

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

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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.

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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Type	Value	Source	Type	Value	Source
Sodium Azide					
Ceiling	0.1 mg/m ³	Belgium	Ceiling	0.26 mg/m ³	Canada (Ontario)
Ceiling	0.3 mg/m ³	Canada (Quebec)	TWA (8hr)	0.1 mg/m ³	France
TWA (8hr)	0.2 mg/m ³	Germany	TWA (8hr)	0.3 mg/m ³	Greece
TWA (8hr)	0.1 mg/m ³	Hungary	TWA (8hr)	0.1 mg/m ³	Italy
TWA (8hr)	0.1 mg/m ³	Netherlands	TWA (8hr)	0.1 mg/m ³	Poland
TWA (8hr)	0.29 mg/m ³	Portugal	TWA (8hr)	0.1 mg/m ³	Romania
TWA (8hr)	0.1 mg/m ³	Spain	TWA (8hr)	0.1 mg/m ³	UK
Ceiling	0.29 mg/m ³	USA (ACGIH)			
Sodium Hydroxide					
Ceiling	2 mg/m ³	Belgium	Ceiling	2 mg/m ³	Canada (Ontario)
Ceiling	2 mg/m ³	Canada (Quebec)	TWA (8hr)	2 mg/m ³	France
TWA (8hr)	2 mg/m ³	Greece	TWA (8hr)	2 mg/m ³	Hungary
TWA (8hr)	0.5 mg/m ³	Poland	Ceiling	2 mg/m ³	Portugal
TWA (8hr)	1 mg/m ³	Romania	Ceiling	2 mg/m ³	Spain
TWA (15min)	2 mg/m ³	UK	Ceiling	2 mg/m ³	USA (ACGIH)
TWA (8hr)	2 mg/m ³	USA (OSHA)			

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

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

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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

Product Toxicity

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

Potential Health Effects:

- Inhalation:** Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if inhaled.
- Skin Contact:** Causes burns.
- Eye Contact:** Causes burns.
- Ingestion:** Harmful if swallowed.

Component Toxicity

Acute Toxicity:

Chronic Toxicity:

Not Available

Sodium Azide

LC50: Inhalation - Rat - 37 mg/m³

LD50: Oral - Rat - 27 mg/kg

LD50: Dermal - Rat - 50 mg/kg

Additional Data:

Irritation Data:

Skin, Rabbit, 500 mg, 24hrs

Remarks: Severe irritation effect.

Eyes, Rabbit, 0.5 mg, 24 hours

Remarks: Severe Irritation effect.

SECTION 12: ECOLOGICAL INFORMATION

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

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.

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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: 2009-06-10
Supersedes edition of: 2008-12-01
Reason for revision: 29 CFR 1910.1200 and SOR/88-66 Compliance

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.