

SAFETY DATA SHEET

0.1N Sodium Hydroxide, Solution

This SDS is valid for all grades that start with catalog number
274

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals
Synonyms: Caustic soda Sodium hydrate Soda lye
Other means of identification: CAS No. 1310-73-2
EINECS No. 215-185-5

Recommended use of the chemical and restrictions on use:

General Laboratory Reagent. Intended for further manufacturing applications or laboratory use only.

Supplier Details:

Greenfield Global USA, Inc.
58 Vale Road, Brookfield,
CT 06804, USA.
Tel: 203.740.3471
Fax: 203.740.3481
CCN17213

Greenfield Global USA, Inc.
1101 Isaac Shelby Drive, Shelbyville,
KY 40065, USA.
Tel: 502.232.7600
Fax: 502.633.6100
CCN17213

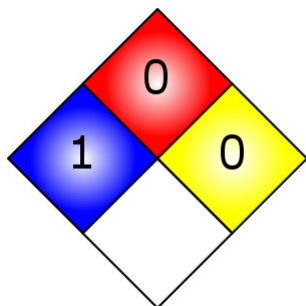
Emergency Contact: CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

Emergency Overview:

Based on the classification criteria - no hazard classes apply - not a hazardous material or substance.

NFPA



Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)
Other hazards which do not result in classification: +1.703.527.3887 (INT)

Potential Health Effects:

Organ	Description
Eyes	May cause irritation.
Ingestion	.May be harmful if ingested.
Inhalation	May cause irritation.
Skin	May cause irritation.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity: 0.1N NaOH Solution
Common name / Synonym: Sodium Hydroxide Solution
CAS number: 1310-73-2
EINECS number: 215-185-5
ICSC number: 0360
RTECS #: WB4900000
UN #: 1823
EC #: 011-002-00-6

% Weight	Material	CAS
0.4	Sodium hydroxide	1310-73-2
99.6	Water for Injection	7732-18-5

4. FIRST AID MEASURES

Skin

Take off contaminated clothing and shoes immediately. Wash affected area with soap and water. Seek medical attention if irritation or discomfort persists.

Inhalation

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing is difficult, give oxygen.

Eyes

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lenses if available to do so. Immediately get medical assistance.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Note to Physician



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Symptoms and Effects, both Acute and Delayed: No relevant information is available. **+1.703.527.3887 (INT)**

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Special protective equipment and precautions for firefighters:

Move away from fire or keep cool with water spray as a protective measure, where feasible.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Ensure adequate ventilation.

Environmental precautions:

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and materials for containment and cleaning up:

Soak up spills with inert materials as soon as possible. Collect spillage. Store away from ignition sources.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get in eyes, on skin, or on clothing. Remove contaminated clothing immediately. Use corrosion proof equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe spray, vapors, mist.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Do not store with materials which react with NaOH.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value	Note
Sodium hydroxide	US (OSHA)	TWA	2mg/m ³	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants
Sodium hydroxide	USA (ACGIH)	C	2 mg/m ³	ACGIH Threshold Limit Value

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Appropriate engineering controls:

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Eye wash station and safety shower.

Individual protection measures, such as personal protective equipment:

Respiratory protection:

Respiratory protective equipment is recommended

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Clear liquid
Odor	Odorless
Odor threshold	Not available
pH	Not available
Freezing point	Not available
Initial boiling point and boiling range	Not available
Vapor pressure	Not available
Vapor Density	Not available
Relative Density	1.01 g/mL
Solubility(ies)	Soluble in water
Formula (WATER)	H ₂ O
Molecular Weight (SODIUM HYDROXIDE)	40.00 g/mol
Molecular Weight (WATER)	18.02 g/mol
Formula (SODIUM HYDROXIDE)	HNaO

10. STABILITY AND REACTIVITY



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Chemical Stability	Stable under normal conditions, 15-30°C.
Possibility of hazardous reactions	No data available
Conditions to avoid (e.g., static discharge, shock or vibration)	No data available
Incompatible materials	Strong acids, metals
Hazardous decomposition products	No data available

11. TOXICOLOGICAL INFORMATION

- Sodium hydroxide, 50% sln 1310-73-2

Product Summary:

No data available for the teratogenic, mutagenic, or reproductive toxicity effects of the product.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

12. ECOLOGICAL INFORMATION

- Sodium hydroxide, 50% sln 1310-73-2

Other adverse effects:

An environmental hazard could occur if product is handled or disposed of improperly.

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Waste must be disposed of in accordance with federal, state, and local environmental control regulations.



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14. TRANSPORT INFORMATION

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Description of waste residues and information on their safe handling and methods of disposal:

UN proper shipping name	Not DOT regulated
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IMDG

Proper shipping name: Not regulated

Marine pollutant: No

IATA

Proper shipping name: Not regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Massachusetts Right To Know Components

Sodium hydroxide CAS-No. 1310-73-2 Revision Date 2007-03-01

Pennsylvania Right To Know Components

Sodium hydroxide CAS-No. 1310-73-2 Revision Date 2007-03-01

New Jersey Right To Know Components



PHARMCO
by Greenfield Global

Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)
Sodium hydroxide CAS-No. 1310-73-2 Revision Date 2007-03-01 **+1.703.527.3887 (INT)**

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**16. OTHER INFORMATION:
INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

Disclaimer

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