

+1.703.527.3887 (INT)

SAFETY DATA SHEET

1.0N 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: Synonyms: Other means of identification: High Purity Chemicals Caustic soda Sodium hydrate Soda lye 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

Emergency Contact:

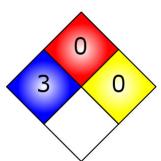
CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

Emergency Overview:

Hazardous material and substance, take precautions to avoid contact with material.

NFPA





Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA) GHS label elements, including precautionary statements +1.703.527.3887 (INT)

Causes skin irritation.

Causes eye irritation

medical attention.

Causes severe skin burns and eye damage.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.

Wash hands thoroughly after handling.

Take off contaminated clothing and wash before reuse.

Wear protective gloves and eye and face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek



Signal Word: DANGER!

Hazard statement(s)

H314 H315 H320

Precautionary statement(s)

P305 + P351 + P338

P302 + P352 P332 + P313 P362 P264 P280

GHS Classification(s)

Eye damage (Category 1) Skin irritation (Category 2)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description
Eyes	Causes serious damage.
Ingestion	May be harmful if ingested.
Inhalation	May cause irritation.
Skin	Causes irritation and severe damage.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity:

1.0N NaOH Solution

SDS: 1045

Revision Date: 01.10.18

Revision Number: 4.0

Initials: EF



Common name / Synonym:
CAS number:
EINECS number:
ICSC number:
RTECS #:
UN #:
EC #:

Sodium Hydroxide Solution 1310-73-2 215-185-5 0360 WB4900000 1823 011-002-00-6

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

4. FIRST AID MEASURES

Skin

Causes irritation, redness, pain. Wash for 15 minutes with water.

Inhalation

Move exposed individual to fresh air.

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

Do not induce vomiting. Call a physician if necessary.

Note to Physician

Symptoms and Effects, both Acute and Delayed: Corrosive-harmful if swallowed. CHRONIC EFFECTS/CARCINOGENICITY: Chronic respiratory disease and dermatitis may develop from repeated exposures.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use protective respiratory protection/breathing apparatus and clothing as appropriate for the surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Reacts with (some) metals: release of highly flammable gases/vapors (hydrogen). Thermal decomposition generates: Corrosive vapors.

Special protective equipment and precautions for firefighters:

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

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6. ACCIDENTAL RELEASE MEASURES

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 solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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 incompatibilites:

Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from incompatible materials like strong acids and metals. Do not store in direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Occupational Exposure Limits

Component	Source	Туре	Value	Note
Sodium hydroxide	USA (ACGIH)	С	2 mg/m3	ACGIH Threshold Limit Value
Sodium hydroxide	US (OSHA)	TWA	2mg/m3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants

Appropriate engineering controls:

Eye wash station and safety shower.

Individual protection measures, such as personal protective equipment:

Respiratory protection:

Respiratory protective equipment is recommended

Hand protection:

Chemical resistant gloves

Eye protection:

Wear safety glasses or goggles.



Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA) Skin and body protection: +1.703.527.3887 (INT)

Lab Coat

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
рН	13 or more
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)	Miscible
Formula (SODIUM HYDROXIDE)	HNaO
Formula (WATER)	H2O
Molecular Weight (SODIUM HYDROXIDE)	40.00 g/mol
Molecular Weight (WATER)	18.02 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of use at 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

12. ECOLOGICAL INFORMATION

Sodium Hydroxide 1.0N Solution 1310-73-2

Ecotoxicity (aquatic and terrestrial, where available):



Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA) Harmful to aquatic life. +1.703.527.3887 (INT)

Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations.

Persistence and degradability: No data available

Bioaccumulative potential:

No data available

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.

14. TRANSPORT INFORMATION

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

UN number	UN1824	
UN proper shipping name	Sodium Hydroxide Solution	
Transport hazard class(es)	8	
Packing group (if applicable)	II	

Reportable Quantity NA IMDG UN-Number: UN1824 Class: 8 Packing Group: II EMS-No: TP2 Proper shipping name: Sodium Hydroxide Solution Marine pollutant: No IATA UN-Number: UN1824 Class: 8 Packing Group: II Proper shipping name: Sodium Hydroxide Solution

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	+1.703.527.3887 (INT)
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

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

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

The regulations published by OSHA for Hazard Communication, 29 CFR 1910.1200, and 1907/2006/EC and are used as the basis for the development of the SDS. DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or



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