

This SDS complies with the US OSHA HCS 2012.

1. Product and Company Identification

Product Code: 0003436
Product Name: Sodium Hydroxide Solution 4%
Company Name: CalibreScientific US, Inc. **Phone Number:** 1 (360)260-2779
 1311 SE Cardinal Ct Suite 170
 Vancouver, WA 98683
Web site address: Alphatecsystems.com
Email address: Regulatory@calibrescientific.com
Emergency Contact: INFOTRAC
 International 00-1- (352)323-3500
Information: North America 1 (800)535-5053
Intended Use: For Laboratory Use
Product List Sodium Hydroxide 4% Also applies to Product Code: 0003471.

2. Hazards Identification

Skin Corrosion/Irritation, Category 2



GHS Signal Word: **Warning**
GHS Hazard Phrases: H315 - Causes skin irritation.
GHS Precautionary Phrases: P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water.
 P332+313 - If skin irritation occurs, get medical advice/attention.
 P362+364 - Take off contaminated clothing and wash it before reuse.
GHS Storage and Disposal Phrases: No phrases apply.
Inhalation: The toxicological properties of this substance have not been fully investigated. Inhalation of dust may cause respiratory tract irritation.
Skin Contact: May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
Eye Contact: May cause eye irritation.
Ingestion: The toxicological properties of this substance have not been fully investigated.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	3.6 -4.0 %
497-19-8	Sodium carbonate	0.0 -0.2 %
7647-14-5	Sodium chloride	0.0 -0.2 %

4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In Case of Skin Contact: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

In Case of Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Point: No data. Method Used: Estimate

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

7. Handling and Storage

Precautions To Be Taken in Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Precautions To Be Taken in Storing: Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
497-19-8	Sodium carbonate	No data.	No data.	No data.
7647-14-5	Sodium chloride	No data.	No data.	No data.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Incompatible materials, dust generation, Strong oxidants.

Incompatibility - Materials To Avoid: Strong oxidizing agents.

Hazardous Decomposition or Byproducts: Nitrogen oxides, Carbon monoxide.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: Experimental reproductive effects have been observed.
Mutagenicity: Mutation data reported.
Neurotoxicity: Other Studies:

Carcinogenicity/Other Information: CAS# 3118-97-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

14. Transport Information

GHS Classification: Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Sodium hydroxide solution, mixture.

DOT Hazard Class: 8 CORROSIVE

UN/NA Number: UN1824

Packing Group: II



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: No information available.
UN Number: UN1824 **Packing Group:** II
Hazard Class: 8 - CORROSIVE **TDG Classification:**

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Sodium hydroxide solution. mixture.
UN Number: UN1824 **Packing Group:** II
Hazard Class: 8 - CORROSIVE

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	No	Yes NA	No
497-19-8	Sodium carbonate	No	No	No
7647-14-5	Sodium chloride	No	No	No

CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists

1310-73-2	Sodium hydroxide {Caustic soda; Lye solution}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - E
497-19-8	Sodium carbonate	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No
7647-14-5	Sodium chloride	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No

16. Other Information

Revision Date: 02/28/2025 **Previous revision:** 12/27/2016
Preparer Name: A. Frontella

Additional Information About This Product: No data available.

Document & Change Control Number SDS0087.D.

Company Policy or Disclaimer: Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.