

### SAFETY DATA SHEET **Sodium Hydroxide Solution 4%**

Page: 1 of 5 Printed: 12/27/2016 Revision: 12/27/2016

Supersedes Revision: 01/21/2015

## 1. Product and Company Identification

0003436 Product Code:

**Product Name:** Sodium Hydroxide Solution 4%

**Company Name:** Alpha-Tec Systems, Inc. **Phone Number:** 1 (360)260-2779

1311 SE Cardinal Ct Suite 170

Vancouver, WA 98683

Web site address: Alphatecsystems.com

Regulatory@Alphatecsystems.com **Email address:** 

**INFOTRAC Emergency Contact:** 

> International 00-1- (352)323-3500

Information: North America 1 (800)535-5053

Intended Use: For Laboratory Use

Sodium Hydroxide 4% Also applies to Product Code: 0003471. **Product List** 

#### **Hazards Identification**

#### Skin Corrosion/Irritation, Category 2



**GHS Signal Word:** Warning

GHS Hazard Phrases: H315 - Causes skin irritation.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P362+364 - Take off contaminated clothing and wash it before reuse.

P302+352 - IF ON SKIN: Wash with plenty of soap and water. **GHS Response Phrases:** 

P321 - Specific treatment see ... on this label.

P332+313 - If skin irritation occurs, get medical advice/attention.

**GHS Storage and Disposal** 

Phrases:

No phrases apply.

The toxicological properties of this substance have not been fully investigated. Inhalation Inhalation:

of dust may cause respiratory tract irritation.

May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or Skin Contact:

dermatitis. May cause skin sensitization, an allergic reaction, which becomes evident

upon re-exposure to this material.

Eye Contact: May cause eye irritation.

The toxicological properties of this substance have not been fully investigated. Ingestion:

#### 3. Composition/Information on Ingredients

CAS# **Hazardous Components (Chemical Name)** Concentration RTECS# 1310-73-2 Sodium hydroxide {Caustic soda; Lye solution} 3.6 -4.0 % WB4900000



## **SAFETY DATA SHEET Sodium Hydroxide Solution 4%**

Page: 2 of 5
Printed: 12/27/2016
Revision: 12/27/2016

Supersedes Revision: 01/21/2015

#### 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 Pt: 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 No.

**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 PEL: 2 mg/m3 CEIL: 2 mg/m3 No data.

solution}



## SAFETY DATA SHEET **Sodium Hydroxide Solution 4%**

Page: 3 of 5 Printed: 12/27/2016

Revision: 12/27/2016 Supersedes Revision: 01/21/2015

Respiratory Equipment

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if (Specify Type):

exposure limits are exceeded or if irritation or other symptoms are experienced.

Wear appropriate protective eyeglasses or chemical safety goggles as described by Eye Protection:

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Wear appropriate protective gloves to prevent skin exposure. Protective Gloves:

Wear appropriate protective clothing to prevent skin exposure. Other Protective Clothing:

**Engineering Controls** 

Use adequate ventilation to keep airborne concentrations low.

(Ventilation etc.):

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**Physical States:** [ ]Gas [X] Liquid [ ] Solid

Appearance and Odor: Colorless/Clear.

Odorless.

:Ha No data. Melting Point: No data. **Boiling Point:** No data.

Flash Pt: No data. Method Used: Estimate

No data. Evaporation Rate:

No data available. Flammability (solid, gas):

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

Vapor Pressure (vs. Air or

mm Hg):

No data.

Vapor Density (vs. Air = 1): No data. Specific Gravity (Water = 1): No data. Solubility in Water: No data. Octanol/Water Partition No data.

Coefficient:

No data.

Autoignition Pt: **Decomposition Temperature:** No data. No data. Viscosity:

## 10. Stability and Reactivity

Stable [X] Stability: Unstable [ ]

**Conditions To Avoid -**

Incompatible materials, dust generation, Strong oxidants.

Instability:

Incompatibility - Materials To Strong oxidizing agents.

Hazardous Decomposition or Nitrogen oxides, Carbon monoxide.

Byproducts:

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

Reactions:

Conditions To Avoid -No data available.

Hazardous Reactions:



## SAFETY DATA SHEET

**Sodium Hydroxide Solution 4%** 

Printed: 12/27/2016 Revision: 12/27/2016

Page: 4 of 5

Supersedes Revision: 01/21/2015

## 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.

### 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: 1824 Packing Group: ||

Hazard Class: 8 - CORROSIVE TDG Classification:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Sodium hydroxide solution. mixture.

## 15. Regulatory Information

**This material meets the EPA** [X] Yes [ ] No Acute (immediate) Health Hazard **'Hazard Categories' defined** [ ] Yes [X] No Chronic (delayed) Health Hazard

for SARA Title III Sections [ ] Yes [X] No Fire Hazard

311/312 as indicated: [ ] Yes [X] No Sudden Release of Pressure Hazard

[ ] Yes [X] No Reactive Hazard

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



# **SAFETY DATA SHEET** Sodium Hydroxide Solution 4%

Page: 5 of 5 Printed: 12/27/2016 Revision: 12/27/2016

Supersedes Revision: 01/21/2015

### 16. Other Information

Revision Date: 12/27/2016
Preparer Name: Tim Meehan

Additional Information About No data available.

This Product:

Document & Change Control SDS0087.C CC16-312.

Number

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.