

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Sodium Hydroxide 99% bead
Other Means of Identification: Caustic Soda, Soda Lye, Lye
Recommended Use: Drilling Fluid Additive
Restrictions on Use: Not available
Supplier: Bri-Chem Supply Ltd.
27075 Acheson Road
Acheson, AB T7X 6B1
Phone Number: 780-962-9490
24 Hour Emergency: 1-800-535-5053 (Infotrac)

Section 2: HAZARD(S) IDENTIFICATION

Classification

This product is considered hazardous under the U.S OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Skin Corrosion/Irritation: Category 1A
Eye Damage/Irritation: Category 1
Corrosive to Metals: Category 1

Label Elements

GHS Pictograms:



Signal Word: Danger
Hazard Statements: Causes severe skin burns and eye damage. May be corrosive to metals.

Precautionary Statements

Prevention: Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Keep only in original container.
Response: If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. If in eyes: Rinse

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cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Storage:** Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant container with a resistant inner.
- Disposal:** Dispose of contents/container to an approved waste disposal plant.
- Hazard Not Other Classified:** None known

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance

- Chemical Name:** Sodium Hydroxide
- Synonyms:** Caustic Soda
- Formula:** NaOH
- Molecular Weight:** 40.00 g/mol
- CAS No:** 1310-73-2
- Concentration:** <= 99-100%

Section 4: FIRST-AID MEASURES

First-Aid Measures

- Eye Contact:** Get immediate medical attention. Immediately rinse with plenty of water. Do NOT rub or keep eyes closed. Keep eye wide open while rinsing. Continue rinsing for 15 minutes.
- Skin Contact:** Get immediate medical attention. Wash off immediately with plenty of water. Remove all contaminated clothes and shoes.
- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Do NOT use mouth to mouth resuscitation. Get medical attention.
- Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most Important Symptoms/Effects, Acute and Delayed

- Symptoms:** No information available

Section 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.
- Unsuitable Extinguishing Media:** No information available

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Specific Hazards Arising from the Chemical

Hazardous Combustion Products: Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Hydrogen gas

Protective Equipment and Precautions for Fire-Fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.

Methods and Material for Containment and Cleaning Up

Methods for Clean-up: Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust.

Environmental Precautions: Prevent entry into waterways or sewers

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Handle in a well-ventilated environment. Do not breathe vapors / spray / mist / fume. Avoid contact with skin, eyes or clothing. Wear personal protective equipment in section 8. Wash contaminated clothing before reuse. Wash thoroughly after handling. Wash before breaks and at the end of the workday. Do not eat, drink or smoke when using this product. Clean equipment and work area regularly.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool/low-temperature, well-ventilated, dry place. Keep containers closed and labeled when not in use. Keep in original container. Do not store with aluminum or magnesium. Store away from acids.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Source	TWA	STEL
US OSHA PEL	2 mg/m ³	-
US ACHIH TLV	2 mg/m ³	-
US NIOSH RELs	2 mg/m ³	-

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Appropriate Engineering Controls:

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

Personal Protective Equipment

Eye/Face Protection:

Tightly fitting safety goggles

Skin Protection:

Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves. Wear long sleeved protective clothing. Wear chemical resistant apron.

Respiratory Protection:

Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White pellets or flakes
Physical State	Solid
Odor:	Odorless
Odor Threshold:	No information available
pH:	13-14 (0.5%)
Melting Point:	318 C / 604 °F
Boiling Point / Boiling Range:	1390 °C / 2534 °F
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	No information available
Flammability or Explosive Limits	
Upper:	No information available
Lower:	No information available
Vapor Pressure:	No information available
Vapor Density:	> 1.0
Specific Gravity:	2.13
Solubility in Water:	111 g / 100 g of water

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Partition Coefficient:	No information available
Auto-Ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity:	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity:	None known under normal conditions.
Chemical Stability:	Stable under ordinary conditions of use and storage. Hygroscopic.
Possibility of Hazardous Reactions:	None known under normal processing.
Conditions to Avoid:	Incompatible materials, metals, moisture.
Incompatible Materials:	Strong acids, organic materials, metals.
Hazardous Decomposition Products:	Hazardous combustion can lead to the release of irritating gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Skin Contact	Causes serious skin burns
Eye Contact	Causes eye damage
Inhalation	May cause irritation or respiratory tract
Ingestion	May be harmful if swallowed
Symptoms Related to the Physical Chemical and Toxicological Characteristics:	No information available

Delayed and Immediate Effects and also Chronic Effects from Short and Long-term Exposure

Skin Damage/Irritation:	Causes severe skin burns
Eye Damage/Irritation:	Causes eye damage
Sensitization:	Not classified
Mutagenic Effects:	Not classified
Carcinogenicity:	Not classified
Reproductive Toxicity:	Not classified
STOT – Single Exposure:	Not classified
STOT – Repeated Exposure:	Not classified

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Aspiration Hazard: Not classified
Acute Toxicity: No information available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Should not be released to environment

Component	Freshwater Fish	Freshwater Algae	Water Flea
Sodium Hydroxide	LC50: 125 mg/L	-	EC50: 40.4 mg/L 48hr
Cas 1310-73-2	96hr		<i>Ceriodaphnia</i>
	<i>Gambusia affinis</i>		

Persistence and Degradability: No information available
Bioaccumulative Potential: No information available
Mobility in Soil: No information available
Other Adverse Effects: No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Processing, use or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

DOT: Regulated
UN-No: 1823
Proper Shipping Name: Sodium Hydroxide, Solid
Hazard Class: 8
Packing Group: II

IATA: Regulated
UN-No: 1823
Proper Shipping Name: Sodium Hydroxide, Solid
Hazard Class: 8
Packing Group: II

IMDG: Regulated
UN-No: 1823
Proper Shipping Name: Sodium Hydroxide, Solid

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Hazard Class: 8
Packing Group: II

Section 15: REGULATORY INFORMATION

International Inventories

TCSA: Listed
DSL: Listed

US Federal Regulations

TSCA Section 12(b) Export Notification: Not regulated

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Not applicable

SARA 311/312 Hazard Categorization:

Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: No
Pressure: No
Reactivity: No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): This product contains the following compounds which are subject to the reporting requirements of the Act and 40 CFR, Part 355.

Chemical Name	CAS-No	CERCLA RQ
Sodium Hydroxide	1310-73-2	1000 lbs

CWA (Clean Water Act): Not applicable

US State Regulations

California Proposition 65: This product does not contain any proposition 65 chemicals

Section 16: OTHER INFORMATION

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

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