

1. IDENTIFICATION

Product Name Sodium Hydroxide 99% bead
Recommended use Fertilizer
Supplier Valudor Products, LLC.
 179 Calle Magdalena Suite 100
 Encinitas CA 92024
 (760)-635-8500
Emergency Telephone 800-535-5053 (Infotrac)

2. HAZARD IDENTIFICATION

Classification

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

Skin Corrosion/irritation	Category 1A
Serious eye damage/eye 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

Response

Keep only in original container
 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 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

Disposal Store in corrosive resistant container with a resistant inner liner
Dispose of contents/container to an approved waste disposal plant

Hazards not other classified None known

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%

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
-----------------	--------------------------

5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media Use any means suitable for extinguishing surrounding fire.

Unsuitable Extinguishing Media No information available.

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.

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 materials for containment and cleanup

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.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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

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 work place 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

Hygiene Measures	experienced use a NIOSH/MSHA approved respirator Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.
-------------------------	---

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
Partition coefficient	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

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 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.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact	Causes severe skin burns
Eye contact	Causes eye damage

Inhalation May cause irritation of 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 form 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
Aspiration hazard Not classified

Acute Toxicity

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity Should not be released to environment

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

Persistence and degradability No information available**Bioaccumulative potential** No information available**Mobility in soil** No information available**Other adverse effects** No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal 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.

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
Hazard Class 8
Packing Group II

15. REGULATORY INFORMATION

International Inventories

TSCA	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

16. OTHER INFORMATION

NFPA Ratings

Health: 3

Flammability: 0

Reactivity: 1

Creation Date: 07/12/2020

Revision Date:

Revision Number: 1.0

Revision Information Creation

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