

**SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking****1.1. Product Identifier**

SDS name : Sodium Hydroxide Pearls  
Synonyms : Caustic soda; Soda lye; Sodium hydrate; Lye.

**1.2. Details of the Distributor of the Safety Data Sheet**

Company Name : GreenSol Limited  
Address : #39-41 Marryat Street, San Fernando, Trinidad, West Indies  
Telephone : +1(868) 225-4858  
Mobile : +1(868) 720-2517  
Email : [sdeokiesingh@greensolltd.com](mailto:sdeokiesingh@greensolltd.com)

**1.3. Emergency Telephone Number**

Emergency Number : +1(868) 720-2517 (GREENSOL)  
: +1(800) 424-9300 (CHEMTREC)

**SECTION 2: Hazard Identification****EMERGENCY OVERVIEW**

Hazard Pictogram :



GHS05

Signal Word : **DANGER**  
Appearance : white. Danger! Corrosive. Causes eye and skin burns. Hygroscopic. May cause severe respiratory tract irritation with possible burns. May cause severe digestive tract irritation with possible burns.  
Target Organs: : Eyes, skin, mucous membranes.  
Eye : Causes eye burns. May cause chemical conjunctivitis and corneal damage.  
Skin : Causes skin burns. May cause deep, penetrating ulcers of the skin. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.  
Ingestion : May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. May cause perforation of the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. May cause systemic effects.



- Inhalation : Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.
- Chronic : Prolonged or repeated skin contact may cause dermatitis. Effects may be delayed.

### SECTION 3: Composition / Information on Ingredients

CAS No.	Chemical Name	Percent	EINECS/ELINCS
497-19-8	Sodium carbonate	<0.5%	207-838-8
1310-73-2	Sodium hydroxide	≥98%	215-185-5

Hazard Symbols: C  
Risk Phrases: 35

### SECTION 4: First Aid Measures

- Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- Skin : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
- Eyes : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.
- Ingestion : If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
- Notes to Physician : Treat symptomatically and supportively.

### SECTION 5: Firefighting measures

- General Information : As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire exposed containers cool. Use water with caution and in flooding amounts. Contact with moisture or water may generate sufficient heat to ignite nearby combustible materials. Contact with metals may evolve flammable hydrogen gas
- Extinguishing Media : Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Do NOT get water inside containers.

### SECTION 6: Accidental Release Measures



- General Information : Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks : Vacuum or sweep up material and place into a suitable disposal container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation. Do not get water on spilled substances or inside containers.

**SECTION 7: Handling & Storage**

- Handling : Wash thoroughly after handling. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Discard contaminated shoes. Use only with adequate ventilation.
- Storage : Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Corrosives area. Keep away from acids. Store protected from moisture. Containers must be tightly closed to prevent the conversion of NaOH to sodium carbonate by the CO2 in air.

**SECTION 8: Exposure Controls / Personal Protection**

- Engineering controls : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium carbonate	none listed	none listed	none listed
Sodium hydroxide	C 2 mg/m3	10 mg/m3 IDLH	2 mg/m3 TWA

OSHA Vacated PELs: Sodium carbonate: No OSHA Vacated PELs are listed for this chemical.

- Sodium hydroxide : C 2 mg/m3
- Personal Protective Equipment** :
- Eyes : Wear chemical goggles.
- Skin : Wear appropriate protective gloves to prevent skin exposure.
- Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : A respiratory protection program that meets OSHA's 29 CFR §1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

## SECTION 9: Physical and Chemical Properties

Physical State : Solid  
Appearance : white  
Odor : Odorless  
pH : 14 (5% aq soln)  
Vapor Pressure : 1 mm Hg @739 deg C  
Vapor Density : Not available.  
Evaporation Rate : Not available.  
Viscosity : Not available.  
Boiling Point : 1390 deg C @ 760 mm Hg  
Freezing/Melting Point : 318 deg C  
Autoignition Temperature : Not applicable.  
Flash Point : Not applicable.  
Decomposition Temperature : Not available.  
NFPA Rating: (estimated) Health : 3; Flammability: 0; Reactivity: 1  
Explosion Limits, Lower : Explosion Limits, Lower: Not available.  
Upper: Not available. : Not available.  
Solubility : Soluble.  
Specific Gravity/Density : 2.13 g/cm<sup>3</sup>  
Molecular Formula : NaOH  
Molecular Weight : 40.00

## SECTION 10: Stability and Reactivity

Chemical Stability : Stable at room temperature in closed containers under normal storage and handling conditions.  
Conditions to Avoid : Moisture, contact with water, exposure to moist air or water, prolonged exposure to air.  
Incompatibilities with Other Materials : Acids, water, flammable liquids, organic halogens, metals, aluminum, zinc, tin, leather, wool, nitromethane.  
Hazardous Decomposition Products : Toxic fumes of sodium oxide.  
Hazardous Polymerization : Will not occur.

## SECTION 11: Toxicological Information

**RTECS#:**  
CAS# 497-19-8 : VZ4050000  
CAS# 1310-73-2 : WB4900000



**LD50/LC50:**

CAS# 497-19-8:

Serious eye damage/irritation : Not classified  
Draize test, rabbit, eye : 100 mg/24H Moderate  
Draize test, rabbit, eye : 50 mg Severe  
Draize test, rabbit, skin : 500 mg/24H Mild  
Inhalation, mouse : LC50 = 1200 mg/m<sup>3</sup>/2H  
Inhalation, rat : LC50 = 2300 mg/m<sup>3</sup>/2H  
Oral, mouse : LD50 = 6600 mg/kg  
Oral, rat : LD50 = 4090 mg/kg;<BR

CAS# 1310-73-2:

Draize test, rabbit, eye : 400 ug Mild  
Draize test, rabbit, eye : 1% Severe  
Draize test, rabbit, eye : 50 ug/24H Severe  
Draize test, rabbit, eye : 1 mg/24H Severe  
Draize test, rabbit, skin : 500 mg/24H Severe;<BR

**Carcinogenicity:**

CAS# 497-19-8 : Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA. CAS# 1310-73-2:  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology : No information available  
Teratogenicity : No information available  
Reproductive Effects: : No information available  
Neurotoxicity : No information available  
Mutagenicity : No information available  
Other Studies: : See actual entry in RTECS for complete information.

**SECTION 12: Ecological Information**

No information available.

**SECTION 13: Disposal Considerations**

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 261.3. 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.

**SECTION 14: Transportation Information**

**IATA**

Shipping Name : SODIUM HYDROXIDE, SOLID

Hazard Class : 8  
UN Number : 1823  
Packing Group : II

**IMO**

Shipping Name : SODIUM HYDROXIDE, SOLID  
Hazard Class : 8  
UN Number : 1823  
Packing Group : II

**RID/ADR**

Shipping Name : SODIUM HYDROXIDE, SOLID  
Hazard Class : 8  
UN Number : 1823  
Packing Group : II

USA RQ: CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ

**SECTION 15: Regulatory Information**

## US FEDERAL

## TSCA

CAS# 497-19-8 is listed on the TSCA inventory.

CAS# 1310-73-2 is listed on the TSCA inventory.

## Health &amp; Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

## Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

## Section 12b

None of the chemicals are listed under TSCA Section 12b.

## TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

## SARA

## Section 302 (RQ)

**CAS# 1310-73-2:** final RQ = 1000 pounds (454 kg)

## Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

## SARA Codes

CAS # 497-19-8: acute. CAS # 1310-73-2: acute, reactive.

## Section 313

No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

## Clean Water Act:



CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 497-19-8 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 1310-73-2 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

European Labeling in Accordance with EC Directives

**Hazard Symbols:**

C

**Risk Phrases:**

R 35 Causes severe burns.

**Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

**CAS# 497-19-8: 1**

**CAS# 1310-73-2: 1**

**Canada**

CAS# 497-19-8 is listed on Canada's DSL List. CAS# 497-19-8 is listed on Canada's DSL List. CAS# 1310-73-2 is listed on Canada's DSL List. CAS# 1310-73-2 is listed on Canada's DSL List.

This product has a WHMIS classification of E.

CAS# 497-19-8 is listed on Canada's Ingredient Disclosure List.

CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.

**Exposure Limits**

**CAS# 1310-73-2:**

OEL-AUSTRALIA:TWA 2 mg/m3 OEL-BELGIUM:STEL 2 mg/m3 OEL-DENMARK:TWA 2 mg/m3 OEL-FINLAND:TWA 2 mg/m3 OEL-FRANCE:TWA 2 mg /m3 OEL-GERMANY:TWA 2 mg/m3 OEL-JAPAN:STEL 2 mg/m3 OEL-THE NETHERLANDS:TWA 2 mg/m3 OEL-THE PHILIPPINES:TWA 2 mg/m3 OEL-SWEDEN:TWA 2 mg/ m3 OEL-SWITZERLAND:TWA 2 mg/m3;STEL 4 mg/m3 OEL-THAILAND:TWA 2 mg/m3 OEL-TURKEY:TWA 2 mg/m3 OEL-UNITED KINGDOM:TWA 2 mg/m3;STEL 2 mg/m3 OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

**SECTION 16: Other Information**

	<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>
<b>NFPA Rating:</b>	<b>3</b>	<b>0</b>	<b>1</b>



**Notice to Reader:**

This SDS provides the information contained in this document in good faith but makes no representation as to its accuracy. This document is intended solely to guide the safe handling of the material by a properly trained individual. The final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with caution. Although some hazards are described, it cannot be guaranteed that these are the only hazards that exist.

<b>Version</b>	<b>Date of Change</b>	<b>Change Description</b>	<b>Responsible Person</b>
1	25-07-2024	Updated to supplier SDS Rev. 1	Laboratory Coordinator

