

Safety Data Sheet

Sodium Hydroxide Pellets

Section 1 - Chemical Product and Company Identification

1.1 Product Identifiers

Product Name: Sodium Hydroxide Pellets

Catalog Number(s): NH5220

CAS#: 1310-73-2

1.2 Recommended Use of the Chemical and Restrictions of Use

Food and pharmaceutical ingredient. Food additive, acid neutralization, industrial use. For professional use only.

1.3 Supplier Details

BioSpectra, Inc.
100 Majestic Way
Bangor, PA 18013
610-599-3400

1.4 Emergency Numbers

US & Canada: 1-800-424-9300

Outside the US & Canada: +1 703-527-3887

Section 2 - Hazards Identification

2.1 Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910

Skin Irritation (Category 1A)

Eye Irritation (Category 1)

Acute Aquatic Toxicity (Category 3)

2.2 GHS Label Element Including Precautionary Statements

Pictogram



Signal Word: Danger

Hazard Statement(s)

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H402	Harmful to aquatic life.

Precautionary Statement(s)

P234	Keep only in original container.
P260	Do not breathe vapors, mist, or spray.
P264	Wash hands, forearms, and other exposed areas thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep at rest in a position of comfortable breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center or doctor.
P321	Specific treatment (See section 4 of this SDS)
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P406	Store in corrosive resistant container with a resistant inner liner.
P501	Dispose of contents/container in accordance with local, regional, national, territorial, provincial and international regulations.

2.3 Hazards not Classified or not Covered by the GHS

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

Section 3 - Composition, Information on Ingredients

3.1 Substances

Name	Product identifier	% (w/w)
Sodium Hydroxide	CAS# 1310-73-2	60-100
Disodium Carbonate	CAS# 497-19-8	< 0.1
		0.1-1 1-5
Water	CAS# 7732-18-5	< 0.1
		0.1-1 1-5

Section 4 - First Aid Measures

4.1 Description of Necessary First Aid Measures

General Advice: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Show physician this SDS.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or physician.

Skin: Remove contaminated clothing. Drench affected area with water for at least 60 minutes. Immediately call a POISON CENTER or physician.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or physician.

Inhalation: Remove to fresh air and keep at rest in a position of comfortable breathing. Immediately call a POISON CENTER or physician.

4.2 Most Important Symptoms/Effects, Acute and Delayed

General: Causes severe skin burns and eye damage. Causes serious eye damage. Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

Inhalation: Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

Skin Contact: Causes severe skin burns. Redness, pain, blisters, permanent damage.

Eye Contact: Causes serious eye damage. Causes permanent damage to cornea, iris, or conjunctiva. Can cause blindness.

Ingestion: Ingestion is likely to be harmful or have adverse effects. May cause burns or irritation to the linings of the mouth, throat and gastrointestinal tract.

4.3 Indication of Immediate Medical Attention and Special Treatment

If you feel unwell, seek medical advice. Show physician this SDS.

Section 5 - Firefighting Measures

5.1 Extinguishing Media: Dry powder, alcohol-resistant foam, water in large quantities, carbon dioxide.

5.2 Specific Hazards Associated with this Chemical: Reacts exothermically with some acids. Contacts with metals may evolve flammable hydrogen gas. Reacts violently with water.

5.3 Special Equipment/Precautions for Firefighters: Wear proper protective equipment, including respiratory protection.

Section 6 - Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid all contact with skin, eyes, or clothing. Avoid breathing dust.

6.2 Environmental Precautions: Prevent entry to sewers and public waters.

6.3 Methods and Materials for Containment and Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize the spill. Recover the product mechanically by vacuuming, shoveling or sweeping. Minimize generation of dust. If spilled directly onto the ground, remove sufficient soil to ensure material is fully recovered. Contact competent authorities after spill.

Section 7 - Handling and Storage

7.1 Precautions for Safe Handling: May be corrosive to metals. May form combustible dust concentrations in air. Do not eat, drink or smoke when using this product. Wash hands before eating, drinking and again when leaving work. Wash hands and forearms thoroughly after handling.

7.2 Conditions for Storage Including any Incompatibilities: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store in original container or corrosive resistant and/or lined container. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials. Storage area should be periodically checked for corrosion and integrity. Incompatible with strong acids, strong oxidizers, metals, aluminum, magnesium, zinc and ammonium salts.

Section 8 - Exposure Controls, Personal Protection

8.1 Control Parameters

Sodium Hydroxide	OSHA PEL	2 mg/m ³
Sodium Hydroxide	ACGIH	2 mg/m ³

8.2 Personal Protective Measures

Eyes: Chemical safety goggles and face shield.

Skin: Wear suitable protective clothing.

Hand: Wear chemically resistant protective gloves.

Clothing: Chemically resistant material and fabrics.

Respirators: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Section 9 - Physical and Chemical Properties

9.1 Chemical Property Information

Physical State: Solid	Melting Point: 360°C
Appearance: Opaque white solid	Boiling Point: 1320°C
Odor: N/A	Specific Gravity/Density: 2.044
pH: 13.5 (0.1M Solution)	Solubility: 100 g/100 g water @ 20°C
Vapor Density: N/A	Molecular Weight: 40.00 g/mol
Viscosity: N/A	Molecular Formula: NaOH
Density: N/A	Decomposition Temperature: N/A
Vapor Pressure: N/A	Freezing/Melting Point: N/A

Section 10 - Stability and Reactivity

10.1 Chemical Stability: Reacts exothermically with some acids. Contact with metals may evolve flammable hydrogen gas. Reacts violently with water.

10.2 Conditions to Avoid: Direct sunlight. Extremely high or low temperature. Incompatible materials. Heat, hot surfaces, sparks, open flames and other ignition sources.

10.3 Incompatibilities with Other Materials: Strong acids, strong bases, metals. Maybe be corrosive to metals, aluminum, magnesium, zinc and ammonium salts.

10.4 Hazardous Decomposition Products: Thermal decomposition generates: corrosive vapors, carbon dioxides, sodium oxides and hydrogen.

Section 11 - Toxicological Information

11.1 Toxicological Effects

LD50/LC50

Disodium carbonate- LD50 Oral Rat 4090 mg/kg

Disodium carbonate- LC50 Inhalation Rat 2300 mg/m³ (exposure time 2 hours)

Carcinogenicity: N/A

Serious Eye Damage/ Irritation: Causes severe eye damage.

Skin Corrosion/Irritation: Causes severe skin burns.

Respiratory or Skin Sensitization:

Epidemiology: N/A

Teratogenicity: N/A

Reproductive Effects:

Neurotoxicity: N/A

Mutagenicity: N/A

Section 12 - Ecological Information

12.1 Ecotoxicity: N/A

12.2 Persistence and Degradability: N/A

12.3 Bioaccumulative Potential: N/A

12.4 Mobility in Soil: N/A

12.5 Other Adverse Effects: Harmful to aquatic life. Avoid release to the environment.

Section 13 - Disposal Considerations

13.1 Disposal Methods

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial, and international regulations.

Section 14 - Transport Information

Regulations	US DOT	IATA	IMDG
Shipping Name	Sodium Hydroxide, Solid	Sodium Hydroxide, Solid	Sodium Hydroxide, Solid
Hazard Class:	8	8	8
UN Number:	UN1823	UN1823	UN1823
Packing Group:	II	II	II

Section 15 - Regulatory Information

SARA: Section 302 (RQ): N/A

Section 311/312: Acute health

Section 313 Components: N/A

Massachusetts Right To Know Components: Sodium Hydroxide CAS# 1310-73-2

Pennsylvania Right To Know Components: Sodium Hydroxide CAS# 1310-73-2

New Jersey Right To Know Components: Sodium Hydroxide CAS# 1310-73-2

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Additional Information

16.1 Hazard Ratings

NFPA Classification

Health hazard: 3

Flammability: 0

Reactivity: 1

The information conveyed in this Safety Data Sheet is only a representation of what BioSpectra has found to be accurate based on the current information that is available in regards to this compound. BioSpectra makes no warranty, expressed or implied, with respect to such information, and therefore assumes no liability resulting from product usage. It is strongly recommended that users of this product perform their own investigations to determine the accuracy and suitability of the information for their specific purposes. In no way will BioSpectra assume liability for any claims, losses, damages to any third party, any lost profits or any special, indirect, incidental, consequential or exemplary damages that may arise, even if BioSpectra has been advised of the possibility of such damages.