



**Precautionary Statements****Prevention**

Wear protective gloves, protective eye protection and protective clothing. Avoid breathing dust or mists. Wash hands thoroughly after handling. Keep container tightly closed.

**Response**

IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.

**Storage**

Use only outdoors or in a well-ventilated place. Keep only in the original container. Store locked up.

**Disposal**

Dispose of contents and container in accordance with local, state, and federal regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Sodium carbonate	497-19-8	25 - 60
Sodium hydroxide	1310-73-2	30 - 60
Sodium metasilicate	6834-92-0	5 - 10

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
<b>Skin Contact</b>	Immediately wash with water then wash with vinegar. Remove contaminated clothing and shoes immediately. Neutralize caustic with vinegar. If irritation develops or persists, get medical advice or attention.
<b>Inhalation</b>	Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting, unless directed by medical authority. Get immediate medical attention.

**Most important acute and chronic hazards**

<b>Symptoms</b>	Acute: Corrosive. Contact with skin may cause severe irritation and burns. Causes serious damage to eyes. If ingested, may cause burns in the mouth and throat, a burning sensation in the throat and chest and may cause nausea and vomiting. Chronic: Chronic exposure to corrosive fumes or gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia is possible. May cause gastrointestinal disturbances. Skin disorders, drying and irritation of the skin. Possible risk of irreversible effects with chronic exposure.
-----------------	---

**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. A marked decrease in blood pressure may occur with most rales, frothy sputum, and high pulse pressure. Treat symptomatically.
---------------------------	--

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Not determined.

**Protective equipment and precautions for firefighters**

Wear NIOSH-approved Self-Contained Breathing Apparatus with a full-face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

**Hazardous Combustion Products**

None known.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

Use personal protective equipment as required. Refer to Section 8 for proper Personal Protective Equipment.

**Methods and material for containment and cleaning up**

**Methods for Containment And Clean-up**

Absorb spill with non-combustible material such as vermiculite, sand or earth. Rinse contacted surfaces thoroughly. Neutralize waste before disposal.

**Waste Disposal RCRA Status**

Dispose of in accordance with federal, state, and local regulations. Unneutralized material is an RCRA hazardous waste. It exhibits the corrosive characteristics as defined in (40CFR 261.22(a)(1)).

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children. Read and follow the directions on the product label. They are the best guide to using the product in the most effective manner. The label also gives you the necessary safety precautions to protect your health. Do not get in eyes. Do not get on skin. Do not breathe mist. Do not take internally.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**

Store containers tightly closed in a dry area. Store in original container. Store away from food and pet food. Wash contaminated clothing and shoes thoroughly before reuse. Wash hands thoroughly after handling. Do not store with acids. Or with strong oxidizers.

**Incompatible Materials**

Oxidizing agents, strong acids and bases.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL
Sodium Carbonate	Not Established	Not Established
Sodium hydroxide	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Sodium metasilicate	Not established	Not established

**Appropriate engineering controls**

**Engineering Controls** Use only in well-ventilated areas.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Wear approved safety goggles/glasses.

**Skin and Body Protection** Wear chemical-resistant gloves and a synthetic apron.

**Respiratory Protection** Not required with normal use. Wear NIOSH/MSHA approved respiratory protection if vapors are present or irritation is experienced.

**General Hygiene Considerations** Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Avoid contact with skin, eyes or clothing. Avoid breathing vapors.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

<b>Physical State</b>	Solid	<b>Odor</b>	None
<b>Appearance</b>	Hard solid tablet		
<b>Color</b>	White		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	Not determined	
<b>Melting Point/Freezing Point</b>	Not determined	
<b>Boiling Point/Boiling Range</b>	Not determined	
<b>Flash Point</b>	Not determined	
<b>Evaporation Rate</b>	Not determined	
<b>Flammability (Solid, Gas)</b>	Not considered a flammable solid by OSHA (29CFR1910.1200)	
<b>Upper Flammability Limits</b>	Not determined	
<b>Lower Flammability Limit</b>	Not determined	
<b>Vapor Pressure</b>	Not determined	
<b>Vapor Density</b>	Not determined	
<b>Solids</b>	Not determined	
<b>Specific Gravity</b>	Not determined	
<b>Water Solubility</b>	100%	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	
<b>Auto-ignition Temperature</b>	Not determined	
<b>Decomposition Temperature</b>	Not determined	
<b>Kinematic Viscosity</b>	Not determined	
<b>Dynamic Viscosity</b>	Not determined	
<b>Explosive Properties</b>	Not determined	
<b>Oxidizing Properties</b>	Not determined	
<b>Viscosity</b>	Not applicable (solid)	

**10. STABILITY AND REACTIVITY****Reactivity**

Chemically active metals and acids.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Under normal conditions of storage and use, hazardous polymerization will not occur.

**Incompatible Materials**

Strong acids and bases, and oxidizing agents.

**Hazardous Decomposition Products**

None known.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information****Eye Contact**

May cause damage to the eyes, severe burns, and permanent eye damage.

**Skin Contact**

Corrosive. Causes severe irritation and may cause chemical burns.

**Inhalation**

Dust is irritating to the entire respiratory tract and can cause burns.

**Ingestion**

Not a likely route of exposure under normal product handling conditions. Causes acute irritation and burns to the mucus membranes of the mouth, trachea, esophagus and stomach.

**Sodium hydroxide** (1310-73-2): LD<sub>50</sub> Oral, Rabbit: 400 mg/kg

**Sodium carbonate** (497-19-8): LC<sub>50</sub> Oral, Rat: 4090 mg/kg – Inhalation, Rat 2300 mg/m<sup>3</sup>

**Sodium metasilicate** (6834-92-0): LD<sub>50</sub> Oral, Rat: 600mg/kg

**Information on physical, chemical and toxicological effects****Symptoms**

Pre-existing disorders of the skin, respiratory system, and eyes may be aggravated by exposure.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Carcinogenicity**

OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

**Acute health hazards**

Corrosive. Contact with skin may cause severe irritation and burns. Causes serious eye damage to eyes. If ingested, may cause burns in the mouth and throat, burning sensation in the throat and chest and may cause nausea and vomiting. Ingestion may cause digestive tract burns. Inhalation may cause severe irritation to the nose, throat and respiratory tract.

**Chronic health hazards**

Chronic exposure to corrosive fumes or gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia possible. May cause gastrointestinal disturbances. Skin disorders, drying and irritation of the skin. Possible risk of irreversible effects with chronic exposure.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Not determined.

**Persistence/Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

This product is mobile in soil.

**Other Adverse Effects**

Not determined.

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable federal, state and local laws and regulations.

**RCRA Status** Unneutralized material is an RCRA hazardous waste. It exhibits the corrosive characteristics as defined in (40CFR 261.22(a)(1)).

**14. TRANSPORT INFORMATION**

**DOT**  
**UN/ID No.** UN3262  
**Proper Shipping Name** For inner packaging not over 1.0kg (2.2 pounds), net capacity each for solids: Cleaning compound, N.O.S., Ltd. Qty. For inner and other packaging over 1.0kg each for solids: Corrosive solid, basic, inorganic, N.O.S. (Sodium Hydroxide disodium trioxosilicate)

**Hazard Class** 8  
**Packing Group** II

**IATA**  
**UN/ID No.** UN3262  
**Proper Shipping Name** Corrosive Solid, Basic, Inorganic, N.O.S., (Sodium Hydroxide disodium trioxosilicate)  
**Hazard Class** 8  
**Packing Group** II

**IMDG**  
**UN/ID No.** UN3262  
**Proper Shipping Name** Corrosive Solid, Basic, Inorganic, N.O.S., (Sodium Hydroxide disodium trioxosilicate)  
**Hazard Class** 8  
**Packing Group** II  
**Environmental hazards water** Not applicable

**15. REGULATORY INFORMATION**

**TSCA:** All chemicals are listed or exempt.

**International Inventories**  
 Listed or exempt from listing/notification on the following chemical inventories: Domestic Substances List (DSL, Canada).

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** Sodium hydroxide (1310-73-2)  
 Reportable Quantity = 1000 lbs.

**SARA 311/312 HAZARD CATEGORIES:** Skin corrosion or irritation. Serious eye damage or eye irritation. Specific target organ toxicity (single or repeated exposure).

**SARA 313 REPORTABLE INGREDIENTS:** None

**CLEAN WATER ACT:** Sodium hydroxide (1310-73-2) is a hazardous substance.

**California Proposition 65**  
 This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**U.S. State Right-to-Know Regulations**  
 Sodium Hydroxide (1310-73-2): included on State Hazardous Substances Inventories, RTK lists and/or Air Quality or Air Pollutants list for the following states: CA, MA, PA, and RI.

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b> 3	<b>Flammability</b> 0	<b>Instability</b> 1	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b> 3	<b>Flammability</b> 0	<b>Physical Hazards</b> 1	<b>Personal Protection</b> B

**Issue Date:** 06-Mar-2023  
**Revision Date:** 06-Mar-2023  
**Revision Note:** New Format

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

**End of Safety Data Sheet**