

# Safety Data Sheet

## Section 1 - Chemical Identification

Product Name: Karbonsorb  
Catalog Numbers: CI-1280  
SDS number: 31  
Product purpose: Laboratory use, Gas scrubber

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## Section 2 - Hazards Identification

**Hazard Class:** Corrosive  
Corrosive to metal Category 1A  
Serious Eye Damage Category 1  
Skin Corrosion Category 1B  
Acute Aquatic Toxicity Category 3

**Hazard Symbol:**



**Signal word:** **Danger**

### **Hazard Statement:**

H290: May be corrosive to metals  
H302: Harmful if swallowed  
H314: Causes severe skin burns and eye damage  
H318: Causes serious eye damage  
H332: Harmful if inhaled  
H402: Harmful to aquatic life

### **Precaution Statements:**

P102: Keep out of reach of children  
P232: P233: Protect from moisture / keep container tightly closed  
P260: Do not breathe dust  
P262: Do not get in eyes, skin or on clothing  
P280: Wear eye protection, protective gloves, and protective clothing

### **Response Statements:**

P301, P330, P331: IF SWALLOWED, rinse mouth, DO NOT induce vomiting  
P301, P310: IF SWALLOWED, immediately call POISON CENTER or DOCTOR  
P303, P353: IF ON SKIN OR HAIR, rinse with water  
P304, P340, P314: IF INHALED remove person to fresh air, get medical advice  
P305, P352, P338, P315: IF IN EYES, wash with plenty of water, remove contact lenses if able to do so, continue rinsing. Get immediate medical attention.  
P306, P363: IF ON CLOTHING, wash contaminated clothing before use

### **Storage Statements:**

P402, P404: Store in a dry place. Keep container tightly closed.  
P406: Store in a corrosive resistance container

### **Other Hazards:**

Material produces exothermic reaction generating heat when dissolve in water.

### **Section 3 - Composition, Information on Ingredients**

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS#</u>	<u>%/W</u>
Sodium Hydroxide		1310-73-5	90 - 95
Vermiculite		1318-00-9	5 - 10

### **Section 4 - First Aid Measures**

**Call a doctor if you feel unwell.**

**EYES:** Immediately flush with plenty of water for 15 minutes. **If eye irritation persists:** Get medical aid.

**SKIN:** Flush with plenty of water. Remove contaminated clothing. Get medical aid if required. Wash clothing before reuse.

**INHALATION:** Remove person to fresh air immediately. Seek medical aid.

**INGESTION:** Do not induce vomiting. Rinse mouth with plenty of water. Call a physician or poison control immediately.

### **Section 5 - Fire Fighting Measures**

**Product is nonflammable.**

**Extinguishing Media:** Use media suitable for surrounding fire.

**Special hazards arising from chemical:** Sodium oxides.

**Firefighting Instructions:** Wear self-contained breathing apparatus and standard protective clothing. Use water to cool unopened containers, exposed to heat.

### **Section 6 - Accidental Release Measures**

**Personal Precautions:** Use suitable personal protection equipment when cleaning up any spills. Avoid breathing dust or gasses produced by fire.

**Recovery method:** Sweep up, collect in suitable container. Wash the area with wet cloth after area has been swept up.

### **Section 7: Handling and Storage**

**Handling:** Keep from, heat. Keep container sealed when not in use. Minimize dust creation. Don't breathe dust. Wear appropriate clothing. Avoid dust build up on surfaces. Wear a respirator where there is not ventilation. Avoid mixing with combustibles. Wash hand thoroughly after handling.

**Storage:** This product should be stored in a cool, dry and well ventilated environment away from any heat source, flammable or combustible material, keep out of direct sunlight. Keep container tightly closed when not in use. Store away from incompatible materials.

### **Section 8 - Exposure Controls, Personal Protection**

<u>Component</u>	<u>ACGIH TCV</u>	<u>OSHA PEL</u>
Sodium Hydroxide	Ceiling 2mg/m <sup>3</sup>	Ceiling 2mg/m <sup>3</sup> TWA 2mg/m <sup>3</sup>

**Engineering:** Use in well ventilated area. Provide eye wash stations and a water source or safety shower. Provide secure, lockable, dry area for storage.

**Eye and Face Protection:** Wear appropriate protective eyeglasses with side shields.

**Skin and Clothing:** Wear appropriate chemical resistant gloves. Routinely inspect gloves before use for wear.

**Respirators:** A respiratory must be worn if exposed to dust. Use an approved respirator if there is a risk or exposure to dust/fumes at levels exceeding exposure limits.

**General hygiene:** Wash hands after use and before eating or drinking. Do not breathe dust. Work clothing should be wash regularly to remove contaminants.

## SECTION 9 - Physical and Chemical Properties

**Physical state:** Solid

**Appearance:** Tan / light brown

**Odor:** None

**PH:** 14

**Vapor pressure:** N/A

**Evaporation rate:** N/A.

**Viscosity:** not available.

**Boiling point:** 1390°C

**Melting Point:** 318°C

**Freezing/melting point:** N/A

**Relative Density:** 2.13

**Solubility(water):** very soluble with evolution of heat.

**Specific gravity:** N/A

## Section 10 - Stability and Reactivity

**Stability:** Stable under normal conditions. Do Not create dust. Product will absorb moisture.

**Avoid:** Dust creation - fine particles can be harmful. Avoid unnecessary exposure to air or water.

**Incompatible materials:** Strong acids. Organic halogen compounds materials, amphoteric metals such as aluminum, zinc, tin, lead

**Hazardous Decomposition:** Sodium Oxides

## Section 11 - Toxicological Information

### Toxicity

<u>Component</u>	<u>LD50</u>	<u>LD50 Dermal</u>	<u>LC50</u>
Sodium Hydroxide	Not Listed	1300 mg/kg rabbit	Not Listed

**Skin**

Severe corrosion of the skin is possible. Chemical burns.

**Eyes:**

Contact with eyes may result in irreversible damage, including blindness.

**Respiratory:**

May result in damage to mucous membranes, upper respiratory tract and lungs.

**Ingestion:**

May result in chemical burns to mouth, throat, esophagus and gastrointestinal tract.

**Carcinogenicity:**

This product is Not considered to be a carcinogen.

## Section 12 - Ecological Information

### Aquatic Toxicity

Carassius auratus (Goldfish)	LC50 160mg/L	24H
Gambusia affinis (Mosquito fish)	LC50 189mg/L	48H
Ceriodaphnia cf Dubia (Water flea)	LC50 40mg/L	48H

## Section 13 - Disposal Considerations

**Waste Disposal:** Dispose of in accordance with all federal, state and local regulation.

**Hazardous waste code:** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residue:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging:** Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

## **Section 14 - Transport Information**

### **DOT**

UN number: UN11823

Class: 8

RQ – 1,000 lbs.

**Special provision:** Read safety



Packing Group: II

Proper shipping name: Sodium Hydroxide, Solid

instruction, SDS and emergency procedures before handling.

### **IATA**

UN number: UN1823

Class: 8

**Special provision:** Read safety



Packing Group: II

Proper shipping name: Sodium Hydroxide, Solid

instruction, SDS and emergency procedures before handling.

### **IMDG**

UN number: UN1823

Class: 8

**Special provision:** Read safety



Packing Group: II

Proper shipping name: Sodium Hydroxide, Solid

instruction, SDS and emergency procedures before handling.

## **Section 15 - Regulatory Information**

**US Federal Regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

**TSCA Status:** Not Listed on Toxic Substance Control Inventory

**CERCLA Reportable Quantity:** Listed

### **SARA Title III**

Section 302: Extremely Hazardous material: Not listed.

Section 313: Toxic Chemicals: Not regulated.

Sections 311/312 Hazardous Categories: Yes

### **State Regulations:**

California Proposition 65: Not listed

Massachusetts (RTK): Sodium Hydroxide CAS No. 1310-73-2

Pennsylvania (RTK): Sodium Hydroxide CAS No. 1310-73-2

New Jersey (RTK): Sodium Hydroxide CAS No. 1310-73-2

Rhode Island (RTK): Sodium Hydroxide CAS No. 1310-73-2

## **Section 16 – OTHER INFORMATION**

HMIS<sup>®</sup> ratings: Health: 3

Flammability: 0

Physical hazard: 2

The information provided in the SDS is believed to be correct to the best of our knowledge and is attended only as guidance for the safe use, storage and disposal of the product. Crossings Inc cannot assure the accuracy of the information provided and shall not be responsible or liable for any damage or losses resulting from use.

Date: November 9, 2015