



## Safety Data Sheet

### Section 1: Identification

Trade Name: Caustic Soda Beads

Synonyms: Sodium Hydroxide

Company: Soapgoods Inc

Address: 1625 Rock Mountain Blvd. Ste V, Stone Mountain GA, 30083

Phone: (404) 924-9080

E-Mail: [wecare@soapgoods.com](mailto:wecare@soapgoods.com)

Emergency Phone: Chemtrec 1 800 424 9300

### Section 2: Hazard(s) Identification

Emergency Overview:            Danger!

Harmful or Fatal if swallowed. Causes Severe eye and skin burns. Causes respiratory tract irritation. Harmful if inhaled. May cause target organ damage based on animal data. Add this product only to water. Never add water to this product. Do not add to warm or hot water, a violent eruption or explosive reaction can result. Avoid contact with organic materials. Take any precaution to avoid mixing with strong acids. May cause fire or explosion.

Do not swallow. Do not get in eyes or on skin or clothing. Do not breathe dust or mists from solutions. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects:

Inhalation:                        Harmful if inhaled. Causes burns. Corrosive to the respiratory system.

Ingestion:                        Harmful or fatal if swallowed. May cause burns to mouth, throat and stomach.

Skin:                                Severely corrosive to the skin. Causes severe burns. Direct contact with the eyes can cause irreversible damage, including blindness.

Over-exposure signs/symptoms

Inhalation:                        Adverse symptoms may include the following  
Respiratory tract irritation, coughing, edema

Ingestion:                        Adverse symptoms may include the following  
stomach pains, nausea or vomiting, gastric perforation, blistering may occur

Skin:                                Adverse symptoms may include the following  
pain or irritation, redness, blistering may occur, ulcerations

Eyes: Adverse symptoms may include the following:  
pain, watering, redness, cornea opacity, ulcerations  
direct contact with the eyes can cause irreversible damage, including  
blindness

Medical conditions aggravated by over exposure: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

### Section 3: Composition/Information on Ingredients

Chemical Name	CAS No	% Content
Sodium Hydroxide	1310-73-2	96-100
Sodium Chloride	7647-14-5	0-2
Sodium Carbonate	497-19-8	0-2

There is not additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### Section 4: First-Aid Measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a Poison control center, emergency room or physician immediately; have Material Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleaner.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trainer personnel.

Notes to physician: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

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

Flammability of the product: Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.

Extinguishing media

Suitable: use an extinguishing agent suitable for the surrounding fire

Not suitable: none known

Special exposure hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training.

Hazardous combustion products: Decomposition product may include the following materials: carbon oxides, halogenated compounds, metal oxide/oxides.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **Section 6: Accidental Release Measures**

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Special provisions: If mixed with water, or likely to become mixed with water or any liquid, dike area to contain spill. Recycle, if possible. Or, dilute spill with large amounts of water then neutralize with dilute acid. Dispose of contents and container in accordance with all local, regional, national and international regulations. After all visible traces have been removed, flush area with large amounts of water.

Reference to other sections:

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## Section 7: Handling and Storage

Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not swallow. Do not get in eyes or on skin or clothing. Do not breathe dust or mists from solutions. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Add this product only to water. Never add water to this product. Do not add to warm or hot water, a violent eruption or explosive reaction can result. May cause fire or explosion. Avoid contact with organic materials. Take any precaution to avoid mixing with strong acids. When making solutions or diluting, only add caustic soda slowly to surface of cold water while stirring. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Caustic soda may react with various sugars to generate carbon monoxide. Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed vessels and can cause death. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Do not enter a storage tank or container (truck or rail) that has contained this product, even if it appears empty.

## Section 8: Exposure Controls/Personal Protection

Name	Result	ACGIH	OSHA	Ontario	Mexico	PPG
Sodium hydroxide	TWA STEL	Not established 2mg/m <sup>3</sup> C	2 mg/m <sup>3</sup>  Not Established	Not established 2mg/m <sup>3</sup> C	Not established 2mg/m <sup>3</sup> C	Not established Not established

STEL = Short term exposure limit values

TWA = Time weighted average

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protection:

Eyes: Chemical splash goggles and face shield.

Hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Gloves: Impervious gloves. nitrile, neoprene

Respiratory: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Section 9: Physical and Chemical Properties**

Physical state: Solid [Dustless granules]

Flash point: Closed cup: Not applicable [Product does not sustain combustion]

Color: White

Odor: Odorless

pH: Strongly basic

Boiling/condensation point: 1390° C (2534° F)

Melting/freezing point: 310° to 320° C (590 to 608° F)

Specific gravity: 2.13

Density (lbs / gal): 17.78

Bulk Density (g/cm): 1.12 (loosely packed)

Vapor pressure: Not applicable

Vapor density: Not applicable

Volatility: 0% (w/w)

Evaporation rate: Not applicable

Viscosity: Not applicable

Solubility: Easily soluble in the following materials: cold water

Water Solubility at room temperature: 3470 g/l @ 100° C

Partition coefficient: n-octanol/water: Not available

% Solid. (w/w): 100

## **Section 10: Stability and Reactivity**

Stability: Stable under recommended storage and handling conditions (see section 7)

Conditions to avoid: Avoid increased storage temperature. Pressure hazard

Materials to avoid: Keep away from the following materials to prevent strong exothermic reactions: oxidizing

agents, strong alkalis, strong acids.

Reactive or incompatible with the following materials: metals (Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with

air.), acids, organic materials (May cause fire or explosion.), food sugars (Caustic soda may react with various sugars to generate carbon monoxide.), water ( Aqueous reaction with caustic soda can generate heat (strongly exothermic).)

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur

### Section 11: Toxicological Information

#### Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Sodium Hydroxide	LD50 Oral	Rat	0.24 g/kg	-
Sodium Chloride	LD50 Oral	Rat	3000 mg/kg	-
Sodium Carbonate	LD50 Oral	Rat	4090 mg/kg	-

Conclusion/Summary Harmful, or fatal if swallowed. Harmful if inhaled.

#### Chronic toxicity

Conclusion/Summary: Not Available

#### Irritation/Corrosion

Skin: Severely corrosive to the skin. Causes severe burns

Eyes: Severely corrosive to the eyes. Causes severe burns. Direct contact with the eyes can cause irreversible damage. Including blindness

Respiratory Sensitization: Corrosive to the respiratory system

#### Sensitization

Skin: Not Available

Respiratory: Not Available

Target organs: May cause damage to the following organs: lungs, gastrointestinal tract, upper respiratory tract, skin, eyes.

Contains material which may cause damage to the following organs: eye, lens or cornea, stomach.

Carcinogenicity: No known significant effect or critical hazards

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

Reproductive toxicity:

Developmental effects: No known significant effects or critical hazards

Fertility effects: No known significant effects or critical hazards

Environmental effects: No known significant effects or critical hazards

## Section 12: Ecological Information

Product / Ingredient name	Result	Species	Exposure
Sodium hydroxide	Acute LC50 196 mg/L Marine water	Fish – Guppy – Poecilia reticulata	96 hours
	Chronic NOEC 56 mg/L Marine water	Fish – Guppy – Poecilia reticulata	96 hours
Sodium Chloride	Acute LC50 1294600 ug/L Fresh water	Fish – Bluegill – Lepomis macrochirus	96 hours
	Acute EC50 402600 to 469200 ug/L	Daphnia – water flea – daphnia magna	48 hours
	Chronic NEL 0.86 g/L Fresh water	Fish – Fathead minnow- pimephales promelas	96 hours
Sodium Carbonate	Acute LC50 300000 ug/L Fresh water	Fish – Bluegill – Lepomis macrochirus	96 hours
	Acute LC50 265000 ug/L Fresh water	Daphnia – Water flea - Daphnia magna	48 hours

## Section 13: Disposal Considerations

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

for additional handling information and protection of employees. Section 6. Accidental release measures



## Section 14: Transport Information

Regulation	UN number	Proper shipping name	Classes	PG*	Additional Information
UN	1823	Sodium Hydroxide, Solid	8	II	“
IMDG	1823	Sodium Hydroxide, Solid	8	II	“
DOT	1823	Sodium Hydroxide, Solid	8	II	“

PG\* Packing group

Reportable quantity RQ: CERCLA Hazardous substances: Sodium hydroxide 1000 lbs (454 kg)

## Section 15: Regulatory Information

All components are listed or exempted.

United States inventory (TSCA 8b) : All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

Canada inventory ( DSL ) : All components are listed or exempted.

China inventory (IECSC) : All components are listed or exempted.

Europe inventory ( REACH ): Please contact your supplier for information on the inventory status of this material

Japan inventory (ENCS) : All components are listed or exempted.

Korea inventory (KECI) : All components are listed or exempted.

New Zealand ( NZIoC ) : All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

United States

CERCLA: Hazardous substances.: sodium hydroxide: 1000 lbs. (454 kg);

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: sodium hydroxide; sodium carbonate; sodium chloride

Chemical name	CAS #	Acute	Chronic	Fire	Reactive	Pressure
sodium hydroxide	1310-73-2	Y	N	N	Y	N
sodium chloride	7647-14-5	N	N	N	N	N
sodium carbonate	497-19-8	Y	N	N	Y	N
Product as-supplied :		Y	N	N	Y	N

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada

WHMIS (Canada) Class E: Corrosive solid. Class D-1B: Material causing immediate and serious toxic effects (Toxic). Class D-2B: Material causing other toxic effects (Toxic).

Mexico

Classification

Flammability 0 Health 3 Reactivity 1

## **Section 16: Other Information**

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