

# SAFETY DATA SHEET



Colonial Chemical Solutions, Inc.

## SECTION 1 - COMPANY AND PRODUCT IDENTIFICATION

### PRODUCT

**Product Name:** CAUSTIC SODA MICRO PEARLS; BEADS; FLAKE

**Control Number:** 00175

**Product Description:** Strong Alkali

### COMPANY IDENTIFICATION

**Supplier:** COLONIAL CHEMICAL SOLUTIONS, INC.

916 West Lathrop Avenue

Savannah, Georgia 31415

**24 Hour Emergency Telephone:** (800)-424-9300 CHEMTREC

**General Information:** (912) 236-1331

## SECTION 2- HAZARDS IDENTIFICATION

### GHS Classification:

#### [ Health ]

Skin corrosion Category 1A

Serious eye damage Category 1

#### [ Environmental ]

Acute Aquatic Toxicity Category 3

#### [ Physical ]

Corrosive to metals Category 1

### GHS Label elements, including precautionary statements

#### Pictograms



**Signal Word:** Danger

#### Health Statements:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

#### Precautionary statements:

P234 Keep only in original container.

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for 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/ physician.

P390 Absorb spillage to prevent material damage.

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS Number	%WT
Caustic Soda	1310-73-2	100

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## SECTION 4 · FIRST AID MEASURES

### FIRST AID PROCEDURES:

**Eyes:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get immediate medical attention.

**Skin:** Immediately flush contaminated areas with water. Wash affected area with soap and water. If irritation persists, seek medical attention.

**Inhalation:** Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Rinse mouth out with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

## SECTION 5 · FIRE FIGHTING MEASURES

**Suitable Extinguishing media:** Not considered a fire hazard. Use any means suitable for extinguishing surrounding fire.

**Hazardous combustion products:** Oxides of carbon and various hydrocarbons

**Fire Fighting Procedures:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Unusual Fire and Explosion Hazards:** Not considered a fire or an explosion hazard.

## SECTION 6 · ACCIDENTAL RELEASE and DISPOSAL MEASURES

**Spills:** Evacuate all non-essential personnel from the spill area. Material is corrosive. Suitable protective clothing should be worn. Shut off or plug source of spill.

Small spills: Sweep up spill and shovel into suitable container.

Large Spills: Dike spill area to contain material. Salvage as much re-useable solid as possible. Sweep up and collect into a suitable container. Avoid contaminating ground and surface water.

## SECTION 7 · STORAGE AND HANDLING

**Handling:** Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep container closed and tightly sealed when not in use. Use good hygiene practices.

**Storage:** Prevent physical damage. Prevent contact of powder with human tissue. Do not eat or drink while handling this material. Store in a cool, dry, ventilated area, away from incompatible substances. Store only in approved properly labeled containers.

## SECTION 8 · EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Provide explosion-proof ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated below.

**Exposure Limits:** Caustic Soda            2 mg/m<sup>3</sup> ACGIH; 2 mg/m<sup>3</sup> OSHA

### Personal Protective Equipment (PPE):

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** If prolonged or repeated skin contact is likely, wear appropriate protective gloves.

**Clothing:** Selection of protective clothing depends on work conditions, potential exposure conditions and may include gloves, boots, suits and other protective items.

**Respirators:** Where adequate ventilation is not available an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard, 29 CFR 1920.134. In confined areas, use a self-contained breathing apparatus.

**Other Equipment:** Eye wash station and shower in close proximity to use are advised.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Flash Point:** Not applicable  
**Autoignition Temperature:** No available data  
**Boiling Point:** 2,534 °F  
**Melting/Freezing Point:** 604 °F  
**Vapor Pressure:** 18 mmHg  
**Vapor Density (Air-1):** 1.4  
**Appearance/ Odor:** Pearls, beads or flakes with no appreciable odor.

**Flammability Limits:** Not applicable  
**Specific Gravity:** 2.13  
**Volatile %:** <1  
**Evaporation Rate (Water):** No available data  
**pH:** 14 at 50g/l  
**Solubility in Water:** 1,260 g/l

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal use and temperature conditions.  
**Conditions to Avoid:** Avoid contact with incompatibles.  
**Incompatible Materials:** Strong oxidizing agents, Strong acids, Organic materials  
**Decomposition Products:** When combusted, oxides of carbon and various hydrocarbons.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Signs and Symptoms of Overexposure:

**Skin:** Contact cause severe skin burns. Severity depends on the amount and duration of exposure.

**Eyes:** Liquid contact will cause severe eye burns. Causes serious eye damage.

**Inhalation:** Excessive inhalation of high concentrations may be harmful. Mist or vapor can irritate the throat and lungs.

**Ingestion:** If swallowed this material causes digestive tract burns. Harmful if swallowed. Aspiration of this material into the lungs may result in damage or death.

### Acute oral toxicity:

Caustic Soda: LD50 rat: 300-500 mg/kg

### Acute inhalation toxicity:

Caustic Soda: LD50 rat: No available data

### Acute dermal toxicity:

Caustic Soda: LD50 rabbit: 2 g/kg

## SECTION 12 - ECOLOGICAL INFORMATION

**Aquatic Toxicity:** Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h

**Bio-accumulative potential:** The methods for determining the biological degradability are not applicable to inorganic substances.

**Mobility:** Accidental spillage is not likely to penetrate the soil and contaminate groundwater.

## 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.

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## SECTION 14 - TRANSPORTATION

### U.S. DEPARTMENT OF TRANSPORTATION (Road or Rail):

**Proper Shipping Name:** Sodium Hydroxide Solid  
**Hazard Class:** 8  
**UN Number:** 1823  
**Packaging Group:** 2

## SECTION 15 - REGULATORY INFORMATION

### US FEDERAL REGULATIONS

#### Comprehensive Environmental Response and Liability Act (CERCLA)

This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

**SARA 302:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. The reportable quantity (RQ) for this material is 1000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

**Toxic Substance Control Act (TSCA):** All components of this product are listed on the TSCA inventory list.

#### SARA Section 311/312 (40 CFR 370) Hazard Categories:

Acute Health Hazard

**SARA Section 313 (40 CFR 372) Hazard Categories:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (DeMinimis) reporting levels established by SARA Title III, Section 313.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA

**Clean Air Act:** None of the chemicals in this product are listed as Hazardous Substances under the CAA.

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

## SECTION 16 - OTHER INFORMATION

**MSDS Revision Date:** January 2015

**National Fire Protection Association (NFPA) Ratings:** This information is intended solely for the use of individuals trained in the NFPA system.

**Health:** 3

**Flammability:** 0

**Reactivity:** 0

The information above is believed to be accurate and represents the best information currently available to us. However, Colonial Chemical Solutions makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Colonial be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Colonial has been advised of the possibility of such damages. The vendor assumes no responsibility for injury or damages resulting from the inappropriate alteration or manipulation of this MSDS and its contents from that originally submitted by Colonial.