



Colonial Chemical Solutions, Inc.

# Material Safety Data Sheet – Caustic Soda Flake

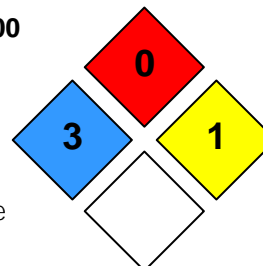
## SECTION I - PRODUCT IDENTIFICATION

**Manufacturers Address:** 916 West Lathrop Avenue  
Savannah, Georgia 31415

**CHEMTREC – 24HR Emergency Telephone 1-800-424-9300**  
**Information Phone:** (912) 443-6702  
**Date Prepared:** 19 Sept 08  
**Preparer:** F.Spaeth

Synonym: Sodium Hydroxide,  
Chemical Family: Alkali

NFPA Rating  
 0- Minimal 1- Slight 2- Moderate  
 3- Serious 4- Extreme



## SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS Number	%WT	TLV	PEL
Caustic Soda	1310-73-2	100	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

## SECTION III - HAZARDOUS IDENTIFICATION

**Potential Acute Health Effects:** Prolonged contact with dilute solutions of dust has a destructive effect upon tissue.  
**Potential Chronic Health Effects:** No chronic Sara 311/312 effects listed.

## SECTION IV - PHYSICAL and CHEMICAL PROPERTIES

**Boiling Point Range:** 2534°F  
**pH:** 13-14 (0.5% Soln.)  
**Solubility In Water:** Soluble.  
**Appearance/Odor:** White deliquescent flakes with no odor.  
**Melting Point/Freezing Point:** 604 °F

**Vapor Density (Air=1):** > 1.0  
**Vapor Pressure (mmHg):** < 0.1  
**VOC %:** 0  
**Specific Gravity (H<sub>2</sub>O=1):** 2.13

## SECTION V - FIRE FIGHTING MEASURES

**Flash Point:** None.  
**Auto Ignition:** Decomposes.  
**Extinguishing Media:** Not considered a fire hazard. Use any means suitable for extinguishing surrounding fire.  
**Flammable Limits:** Lower: None Upper: None  
**Fire Fighting Procedures:** Cool fire-exposed containers with water spray to prevent container weakening and possible rupture. Do not enter confined spaces without self-contained breathing apparatus (SCBA) and structural firefighter's protective clothing.  
**Unusual Fire and Explosion Hazards:** Not considered an explosion hazard.

## SECTION VI - STABILITY AND REACTIVITY

**Stability:** Stable under normal use conditions.  
**Conditions to Avoid:** Moisture, dusting and incompatibles.  
**Incompatibility:** Avoid contact with acids, moisture, strong oxidizing agents, powdered metals.  
**Hazardous Decomposition Products:** Oxides of Sodium.  
**Hazardous Polymerization:** Will not occur.



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## SECTION VII - STORAGE AND HANDLING

**Precautions To Be Taken In Handling and Storage:** Always store in tightly sealed, properly labeled, original container. Store in a cool, dry well ventilated area. Prevent physical damage. Keep away from sources of heat, moisture and incompatibles.

**Other Precautions:** Follow Label Instructions and Precautions.

## SECTION VIII - HEALTH AND FIRST AID

**Skin:** Corrosive! Severely irritating.

**Eyes:** Corrosive! Severely irritating.

**Inhalation:** Severely irritating. High dust concentrations can do serious damage to respiratory system.

**Ingestion:** Severely irritating. May cause severe burns of mouth, throat, and stomach.

### FIRST AID PROCEDURES:

**Eyes:** Flush with large amounts of cool running water for at least 15 minutes. Get medical attention immediately.

**Skin:** Flush off excess with large amounts of cool running water for at least 15 minutes. Get medical attention immediately.

**Inhalation:** For excessive inhalation remove to fresh air. If breathing is difficult seek medical attention.

**Ingestion:** DO NOT induce vomiting. Drink large amounts of water or milk. Seek medical attention immediately.

## SECTION IX - EXPOSURE CONTROLS / PERSONAL PROTECTION

**Eye Protection:** Eye Protection when handling. Goggles, safety glasses with side shields or full-face shield are recommended.

**Respiratory Protection:** Where adequate ventilation is not available an approved respirator (NIOSH N95 or better) must be worn. In confined or areas where exposure is above is above 50 times the TLV, use a self-contained breathing apparatus.

**Skin Protection:** Wear impervious clothing, including boots, gloves, apron or coveralls, as appropriate to prevent skin contact.

**Ventilation:** General Mechanical ventilation to prevent dusting and TLV from exceeding control limits.

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

**Other Equipment:** Eye wash station and drench shower in close proximity.

## SECTION X - ACCIDENTAL RELEASE MEASURES

Ventilate area of spill. Wear appropriate PPE as specified in Section IX. Sweep up and containerize for reclamation or disposal. Avoid dust dispersal during clean up operation.

## SECTION XI - DISPOSAL CONSIDERATIONS

Whatever cannot be salvaged should be managed in an appropriate and approved waste disposal facility. Processing use or contamination of this product may alter its waste classification. State and local disposal regulations may differ from federal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.



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## SECTION XII - TRANSPORTATION

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

## SECTION XIII - TOXICOLOGY

**Carcinogenicity:** Not NTP listed  
**Mutagenicity:** Not reported to produce mutagenic effects in humans.  
**Reproductive:** Not reported to produce reproductive effects in humans..  
**Sensitization:** Persons with pre-existing skin disorders or eye problems may be more susceptible to this product.

## SECTION XIV - REGULATORY

**RMP/PSM:** Not listed  
**CERCLA-RQ:** 1000 Lbs  
**EPCRA 311/312:** Yes  
**EPCRA 313:** Yes  
**FIFRA:** No documented information available.  
**RCRA-CODE:** No Hazardous Waste Identification.  
**TSCA:** Listed

## SECTION XV - OTHER INFORMATION

The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.