CAUSTIC SODA 99%

MATERIAL SAFETY DATE SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:CAUSTIC SODA 99%

Trade Name:Caustic Soda - Solid; Caustic Soda - Beads; Caustic Soda- # 2 Flake; Caustic Soda - # 4 Flake; Caustic Soda -Rayon; Caustic Soda - Diaphragm; Diaphragm Compounder

SYNONYMS: Sodium hydroxide - Dry

PRODUCT USE: cleaner, process chemical, petroleum industry, food processing, metal finishing

COMPANY IDENTIFICATION:

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SECTION 2- HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:
INHALATION:
SHORT TERM EXPOSURE: irritation (possibly severe), burns, pulmonary edema
LONG TERM EXPOSURE: to our knowledge, no effects are known
SKIN CONTACT:
SHORT TERM EXPOSURE: irritation (possibly severe), burns
LONG TERM EXPOSURE: dermatitis
EYE CONTACT:
SHORT TERM EXPOSURE: irritation (possibly severe), burns, eye damage, blindness
LONG TERM EXPOSURE: visual disturbances
INGESTION:
SHORT TERM EXPOSURE: irritation (possibly severe), burns, nausea, vomiting
LONG TERM EXPOSURE: to our knowledge, no effects are known
CARCINOGEN STATUS:

SECTION 3 - COMOSITION / INFORMATION ON

INGREDIENTS

Chemical Name	CAS NO.	Percentage
Sodium hydroxide	1310-73-2	97-98

SECTION 4- FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio-Pulmonary Resuscitation/Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.

SKIN CONTACT: Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. Discard footwear which cannot be decontaminated. GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT: 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 MEDICAL ATTENTION IMMEDIATELY.

INGESTION: Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN: The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Do not use water. Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING: Move container from fire area if it can be done without risk.

SENSITIVITY TO MECHANICAL IMPACT: Not sensitive

SENSITIVITY TO STATIC DISCHARGE: Not sensitive

FLASH POINT: not flammable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Shovel dry material into suitable container. Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies. Notify Local Emergency Planning Committee and State Emergency Response Commission for release

greater.

SECTION 7 - HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances.

HANDLING: Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL

EXPOSURE LIMITS:

SODIUM HYDROXIDE:

2 mg/m3 OSHA TWA

2 mg/m3 OSHA ceiling (vacated by 58 FR 35338, June 30, 1993)

2 mg/m3 ACGIH ceiling

2 mg/m3 MEXICO peak

VENTILATION: Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear chemical resistant safety goggles if eye contact is likely. When wet mixing, wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear protective clothing to minimize skin contact. When potential for contact with wet material exists, wear Tychem(R) SL or a similar chemical protective suit. When potential for contact with dry material exists, wear disposable coveralls such as Tyvek(R).

GLOVES: Wear suitable gloves. Discard contaminated leather goods. When wet mixing, wear chemical resistant gloves such as butyl rubber, natural rubber, neoprene or nitrile.

PROTECTIVE MATERIAL TYPES: butyl rubber, canvas, leather, natural rubber, neoprene, nitrile, Tychem (R), Tyvek(R)

RESPIRATOR: A NIOSH approved respirator with N95 (dust, fume, mist) filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. A half facepiece air-purifying respirator may be used in concentrations up to 10X the acceptable exposure level and a full facepiece air-purifying respirator may be used in concentrations up to 50X the acceptable exposure level.

Supplied air should be used when the level is expected to be above 50X the acceptable level, or when there is a potential for uncontrolled release.

A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

SECTION 9 - PHYSICAL AND CHEMICAL

PHYSICAL STATE: solid

COLOR: white

ODOR: odorless
MOLECULAR WEIGHT: 40.00
MOLECULAR FORMULA: NaOH
BOILING POINT: Not applicable
MELTING POINT: 604 F (318 C)
VAPOR PRESSURE: Not applicable
VAPOR DENSITY: Not applicable
SPECIFIC GRAVITY (water=1): 2.13 @ 20 C
WATER SOLUBILITY: 100%

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.
CONDITIONS TO AVOID: Avoid contact with water. Direct contact with water may cause an exothermic reaction. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.
INCOMPATIBILITIES: acids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys
HAZARDOUS DECOMPOSITION:
Thermal decomposition products: None known.
POLYMERIZATION: Will not polymerize.

SECTION 11 - TOXICOLOGICAL INFORMATION

CAUSTIC SODA ANHYDROUS (ALL GRADES):
TOXICITY DATA: Sodium Hydroxide: 1350 mg/kg Dermal-Rabbit LD50. 220 mg/kg (50% solution) Oral- Rat LD50. As a solid, this material interacts with moist tissue to cause damage. When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis. Skin contact with this material may cause severe irritation and corrosion of tissue. Eye contact can cause severe irritation, corrosion with possible corneal damage and blindness. In general, chronic effects are due to long-term irritation. This material may cause dermatitis on the skin, or recurrent corneal ulceration and visual disturbances. In rare cases reports have noted long-term inhalation causes bronchial inflammatory reaction or obstructive airway dysfunction.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY DATA:
FISH TOXICITY: This material has exhibited moderate toxicity to aquatic organisms.
FATE AND TRANSPORT:
BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material will exist in the disassociated state.
BIOCONCENTRATION: This material is believed not to bioaccumulate.
OTHER ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial Organisms.

SECTION 13 - DISPOSAL CONSIDERATIONS

Reuse or reprocess if possible. Dispose in accordance with all applicable regulations.

SECTION 14 - TRANSPORT INFORMATION

UN-Number: 1823
Label class: 8
Packing group: II

SECTION15-REGULATORY INFORMATION

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):
ACUTE: Yes
CHRONIC: No
FIRE: No
REACTIVE: Yes
SUDDEN RELEASE: No
SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.
OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.
STATE REGULATIONS:
California Proposition 65: This product may contain contaminants known to the State of California to cause
cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act.
For additional information, contact Customer Service.
NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW:
REPORTING REQUIREMENT:
SODIUM HYDROXIDE 1310-73-2 97-98.2%

SECTION 16 - OTHER INFORMATION

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.