

# Material Safety Data Sheet

## Provided by:

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## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CAUSTIC SODA 75/25 LOW FREEZE

### Synonyms

**Chemical Name** SODIUM HYDROXIDE

**Emergency phone:** 281-457-4888

**Chemtrec:** 800-424-9300

**Date of Issue:** 01/30/01

**Revised Date:** N/A

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
POTASSIUM HYDROXIDE	20% - 30%	1310-58-3
SODIUM HYDROXIDE	60% - 70%	1310-73-2

## SECTION 3 - HAZARDS IDENTIFICATION

### Potential Health Effects

**ACGIH - TLV:** 2 mg/cu M

**Eye Contact** SEVERELY IRRITATING TO THE EYES.

**Skin Contact** CAUSES SKIN IRRITATION.

**Ingestion** CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.

**Inhalation** PROLONGED OR REPEATED INHALATION MAY CAUSE RESPIRATORY TRACT IRRITATION.

**Carcinogenicity:** NTP NO IARC NO OSHA NO

## SECTION 4 - FIRST AID PROCEDURES

**Eye Contact:** IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

**Skin Contact:** IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.

**Inhalation:** REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

**Ingestion:** DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION !! NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point** WILL NOT BURN.

**Extinguishing Media** USE EXTINGUISHING MEDIA FOR SURROUNDING AREA.

**Special Firefighting  
Procedures/Precuations**

USE WATER TO COOL CONTAINERS EXPOSED TO FIRE. MAY REACT WITH WATER. CONTACT WITH REACTIVE METALS MAY RESULT IN THE GENERATION OF HYDROGEN GAS.

**SECTION 6 -ACCIDENTAL RELEASE MEASURES**

**For Spill:** COMPLETELY CONTAIN MATERIAL WITH DIKES, SANDBAGS, ETC. TO PREVENT RUNOFF INTO GROUND OR SURFACE WATERS AND SEWERS. RECOVER AS MUCH MATERIAL AS POSSIBLE IN CONTAINERS FOR DISPOSAL. REMAINING MATERIAL MAY BE DILUTED WITH WATER.

**SECTION 7 - HANDLING AND STORAGE**

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.

PRECAUTION - DILUTION WITH WATER EVOLVES LARGE AMOUNTS OF HEAT.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Respiratory Protection** NIOSH SELF CONTAINED RESPIRATOR IF NORMAL OPERATING CONDITIONS ARE EXCEEDED.

**Ventilation** LOCAL AND MECHANICAL EXHAUST IS RECOMMENDED.

**Protective Gloves** WEAR CHEMICAL RESISTANT GLOVES AND CLOTHING TO AVOID SKIN CONTACT.

**Eye/Face Protection** CHEMICAL GOGGLES AND/OR FULL FACE SHIELD

**Other Protection** CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.

**Work Practices** USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point (°F):</b> 270 - 290	<b>Vapor Pressure (mmHg):</b> 5.8 (@ 20 C)
<b>Freezing Point (°F):</b> 0 - 36	<b>Vapor Density (Air=1):</b> NOT ESTABLISHED.
<b>Solubility (H2O):</b> COMPLETE	<b>Specific Gravity (H2O=1):</b> 1.52 ESTIMATED
<b>pH</b> >13	<b>Evaporation Rate:</b> <1
<b>Appearance/Odor:</b> COLORLESS TO SLIGHT OPAQUE LIQUID WITH NO APPRECIABLE ODOR.	

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:** YES

**Incompatible Materials** CHLORINATED HYDROCARBONS, ACETALDEHYDE, ACROLEIN, ALUMINUM, CHLORINE TRIFLUORIDE, HYDROQUINONE, MALEIC ANHYDRIDE, AND PHOSPHOROUS PEROXIDE.

**Decomposition Products** CARBON DIOXIDE AND CARBON MOXOXIDE FROM SMOKE.

**Hazardous Polymerization:** WILL NOT OCCUR.

**SECTION 11 - TOXICITY INFORMATION**

NO DATA AVAILABLE.

**SECTION 12 - ECOLOGICAL INFORMATION**

NO DATA AVAILABLE.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 14 - TRANSPORT INFORMATION**

**USA DOT Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIU

**Hazard Class:** 8

**UN/NA Number:** UN3266

**Packing Group:** II

**Subsidiary Hazard**

**Marine Pollutant:** NO

**SECTION 15 - REGULATORY INFORMATION**

**CERCLA RQ (lbs):** 1000

**SARA Title III Section 312:**

**Acute**     **Chronic**     **Flammable**     **Sudden Release of Pressure**     **Reactive**

**SARA Title III Section 313:** No

**SARA Extremely Hazardous Substance:** No

**HMIS HAZARD RATING**

**Health:** 3                      **Fire:** 0                      **Reactivity:** 1

**0 - Least    1 - Slight    2 - Moderate    3 - High    4 - Extreme**

**SECTION 16 - OTHER INFORMATION**

**EPA Pesticide Registration Number:** NOT APPLICABLE

**NSF Maximum Use Level for Potable Water (Standard 60):** NOT APPLICABLE

**TSCA (Toxic Substance Control Act), 40 CFR 710:**

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

**DISCLAIMER**

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