

# Material Safety Data Sheet

Provided by:  
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## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** CAUSTIC SODA LIQUID (ALL GRADES)  
**Synonyms** SODIUM HYDROXIDE SOLUTION  
**Chemical Name** CAUSTIC SODA LIQUID      **Date of Issue:** 3/19/2003  
**Emergency phone:** 281-457-4888      **Reviewed / Revision Date:** 7/01/2008  
**Chemtrec:** 800-424-9300

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
SODIUM HYDROXIDE	10% - 52%	1310-73-2
SODIUM CARBONATE	<0.2	497-19-8
SODIUM CHLORIDE	<1.0	7647-14-5
WATER	BALANCE	7732-18-5

## SECTION 3 - HAZARDS IDENTIFICATION

### Potential Health Effects

**ACGIH - TLV:** 2 mg/cu. M  
**Eye Contact** CONTACT MAY CAUSE SEVERE DAMAGE INCLUDING BURNS AND BLINDNESS.  
**Skin Contact** CONTACT CAUSES SEVERE SKIN IRRITATION AND POSSIBLE BURNS.  
**Ingestion** CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.  
**Inhalation** EXPOSURE TO VAPOR, MIST, OR LIQUID CAN PRODUCT BURNS OF THE RESPIRATORY TRACT.  
**Carcinogenicity:** *NTP* NO    *IARC* NO    *OSHA* NO

## SECTION 4 - FIRST AID PROCEDCURES

**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. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

## SECTION 5 - FIRE FIGHTING MEASURES

**Flash Point (°F)** NOT APPLICABLE

**Extinguishing Media**

DOES NOT BURN. USE MEDIA APPROPRIATE FOR SURROUNDING MATERIALS. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

**Special Firefighting Procedures/Precuations**

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. USE WATER TO COOL CONTAINERS BUT AVOID GETTING WATER INTO CONTAINERS.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**For Spill:** EVACUATE UNNECESSARY PERSONNEL. CONTAIN LIQUIDS AND PREVENT DISCHARGES INTO WATERWAYS AND SEWERS. DO NOT APPLY WATER TO THE LEAK. COLLECT AND PLACE IN CONTAINERS FOR DISPOSAL. NEUTRALIZE REMAINING TRACES WITH ANY DILUTE INORGANIC ACID.

**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.

AVOID STORING NEXT TO STRONG ACIDS. IF PRODUCT IS ADDED TOO RAPIDLY, OR WITHOUT STIRRING, AND BECOMES CONCENTRATED AT BOTTOM OF MIXING VESSEL, EXCESSIVE HEAT MAY BE GENERATED, RESULTING IN DANGEROUS BOILING AND SPLATTERING, AND A POSSIBLE IMMEDIATE AND Violent reaction

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

**Respiratory Protection** USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS WHERE DUST OR MIST MAY BE GENERATED.

**Ventilation** LOCAL AND MECHANICAL RECOMMENDED.

**Protective Gloves** CHEMICAL IMPERVIOUS GLOVES.

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

**Other Protection** CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC. EMERGENCY SHOWER AND EYEWASH FACILITY SHOULD BE IN CLOSE PROXIMITY.

**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>	50- 291	<b>Vapor Pressure (mmHg):</b>	13-135 (@60 C)
<b>Freezing Point (°F):</b>	-230 - 54	<b>Vapor Density (Air=1):</b>	NOT ESTABLISHED
<b>Solubility (H2O):</b>	COMPLETE	<b>Specific Gravity (H2O=1):</b>	1.11 - 1.53
<b>pH</b>	14	<b>Evaporation Rate:</b>	NOT DETERMINED
<b>Appearance/Odor:</b>	COLORLESS TO SLIGHTLY HAZY LIQUID WITH NO APPRECIABLE ODOR.		

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:** YES

**Incompatible Material:** REACTS WITH WATER, ACIDS, METALS, AND REDUCING SUGARS (FRUCTOSE).

**Hazardous Polymerization:** WILL NOT OCCUR.

**Decomposition Products:** NONE KNOWN.

**SECTION 11 - TOXICITY INFORMATION**

ACUTE ORAL LD50 (rat) = 1200 mg/kg ACUTE DERMAL LD50 (rabbit) = 1350 mg/kg

**SECTION 12 - ECOLOGICAL INFORMATION**

LC50/96HR/FATHEAD MINNOW/179 MG/L EC50/96HR/WATER FLEA/42 MG/L EC50/96HR/GREEN ALGAE/41 MG/L LD50 (IP)/MOUSE/40 MG/KG

**SECTION 13 - DISPOSAL CONSIDERATIONS**

DO NOT DISCHARGE INTO WATERWAYS OR SEWER SYSTEMS WITHOUT PRIOR APPROVAL.  
DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

**SECTION 14 - TRANSPORT INFORMATION**

**USA DOT Shipping Name:** SODIUM HYDROXIDE, SOLUTION  
**Hazard Class:** 8  
**UN/NA Number:** UN1824  
**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:**      2  
**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):**    100 mg/l (50%)    200 mg/l (25%)

**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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