

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

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

THE DATA PRESENTED IS TRUE AND CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF; HOWEVER, NEITHER SELLER NOR PREPARER MAKES ANY WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE INFORMATION PRESENTED. THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY UPON HIS OWN DETERMINATIONS.

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

Special Firefighting Procedures/Precautions 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

Boiling Point (°F):	50- 291	Vapor Pressure (mmHg):	13-135 (@60 C)
Freezing Point (°F):	-230 - 54	Vapor Density (Air=1):	NOT ESTABLISHED
Solubility (H2O):	COMPLETE	Specific Gravity (H2O=1):	1.11 - 1.53
pH	14	Evaporation Rate:	NOT DETERMINED
Appearance/Odor:	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