

# MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S 29 CFR 1910, 1200 AND STATE HAZARD COMMUNICATION STANDARD

**A BRITE COMPANY**  
**3217 WOOD DRIVE**  
**GARLAND, TEXAS 75041**  
**214-291-0400**

24 HOUR EMERGENCY PHONE NUMBER 1-800-424-9300 (CHEMTREC)

## SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: Etch 88  
GENERAL OR GENERIC ID: Alkaline liquid mixture  
DATE PREPARED: 5/11/04  
LATEST REVISION DATE: 5/11/04  
NFPA/HMIS HAZARD CODES  
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)  
HEALTH: 3/3 FIRE: 0/0 REACTIVITY: 1/1 SPECIAL: H

## SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDLH LEVEL	% /WT
Sodium Hydroxide	310-73-2	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>	250mg/m <sup>3</sup>	<95

\*= Reportable under SARA Title III

## SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

**BOILING POINT:** >212°F  
**VAPOR PRESSURE:** N/A  
**SOLUBILITY IN WATER:** Complete  
**pH (1% Solution):** 12.4  
**APPEARANCE AND COLOR:** Light tan liquid with pungent odor.

**SPECIFIC GRAVITY:** 1.50  
**VAPOR DENSITY:** N/A  
**EVAPORATION RATE:** N/A

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT:** not flammable  
**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, alcohol foam, dry chemical and Halon.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Pressure demand, self contained respiratory protection and protective clothing should be worn by firefighters in areas where products containing caustic soda or caustic soda mixtures are stored.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Non combustible material, liquid form in contact with water may generate sufficient heat to ignite combustible or flammable materials. Contact with white metals such as zinc, aluminum, tin or alloys of these metals can generate explosive hydrogen gas.

## SECTION 5: REACTIVITY DATA

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**INCOMPATIBILITY:** Acids, metals such as zinc, aluminum, tin or alloys of these metals. Flammable liquids, organic halogens, nitromethane or nitro compounds.  
**CONDITIONS TO AVOID:** Splashing or dropping of water or strong acids on product. Spilling of liquid product on white metals.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon dioxide and or carbon monoxide or hydrogen gas may evolve.

## SECTION 6: HEALTH HAZARD DATA

### ROUTES OF ENTRY /SIGNS AND SYMPTOMS OF EXPOSURE:

**ACUTE:** Corrosive to eyes and skin, concentrated solutions may destroy tissue on contact. Can cause blindness.

**INGESTION:** Harmful if swallowed. Can cause severe burns and complete perforation of mucous membranes to the mouth, throat, esophagus and stomach if swallowed.

**INHALATION:** Mist or dust at high levels may cause irritation to the nose, throat and lungs. May cause damage to the upper respiratory tract.

**CHRONIC EFFECTS:** None known

**CARCINOGENS:** None under OSHA, IARC or NTP.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

### EMERGENCY AND FIRST AID PROCEDURES:

**EYES:** Immediately flush with plenty of water for 15 minutes. See a physician.

**SKIN:** Wash with soap and water. Remove contaminated clothing. See a physician if irritation occurs.

**INHALATION:** Remove to fresh air. If breathing has stopped start artificial respiration. See a physician.

**INGESTION:** Call a physician immediately, **DO NOT INDUCE VOMITING DILUTE BY DRINKING WATER (MILK IF AVAILABLE) NEVER GIVE LIQUIDS TO AN UNCONSCIOUS PERSON.**

## SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

### SPILL OR LEAK PROCEDURES:

**SMALL SPILLS:** Flush to treatment system with large amounts of water.

**LARGE SPILLS:** Sweep up into suitable containers. Keep out of fish bearing waters.

**WASTE DISPOSAL METHOD:** Dump to waste water treatment system, observe local, state and federal regulations. Product is hazardous waste, EPA Code (c,R), EPA Hazardous Waste Numbers D002, D003, due to pH.

## SECTION 8: TRANSPORTATION AND LABELING

### REGULATORY INFORMATION:

**DOT HAZARD CLASS:** 8

**SHIPPING NAME:** Corrosive, liquid, basic, inorganic, n.o.s. (Sodium Hydroxide)

**ID NUMBER:** UN 3266

**PACKING GROUP:** II

**LABELS:** 8

**TSCA:** All components included in the inventory.

## SECTION 9: HANDLING AND STORAGE

**HANDLING AND STORING:** Keep container closed when not in use.

**OTHER PRECAUTIONS:** Keep out of reach of children. Store in proper chemical storage area.

If water pollution occurs, notify the proper authorities.

## SECTION 10: CONTROL MEASURES

**RESPIRATORY PROTECTION:** Use NIOSH approved respiratory equipment for dust and mist.

**VENTILATION:** Local exhaust to maintain air contamination below TLV limit.

**GLOVES:** Rubber gloves, neoprene, or synthetic rubber required.

**EYE PROTECTION:** Safety glasses or goggles required.

**OTHER PROTECTIVE EQUIPMENT:** As needed to prevent prolonged or repeated skin contact. Eye wash fountain and safety shower in work area.

**WORK /HYGIENIC PRACTICES:** Launder contaminated clothing before reuse.

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