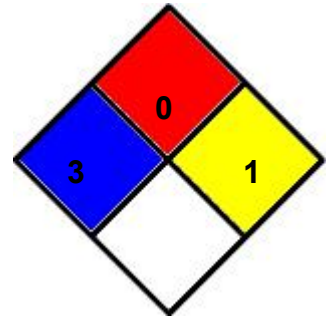


MATERIAL SAFETY DATA SHEET

ALKALINITY BUILDER



COMPANY IDENTIFICATION

MANUFACTURER: Chem-Tech
400 Ternes Dr.
Random Lake, WI 53075

INFORMATION PHONE: 920-994-2299
EMERGENCY: 1-866-998-7328
HMIS

HEALTH: 3 **FLAMMABILITY:** 0 **REACTIVITY:** 1 **PROTECTIVE:** G

SECTION I - PRODUCT IDENTIFICATION

PRODUCT: ALKALINITY BUILDER

PREPARED BY: Jason Sprang

DATE PREPARED: 7/26/2006

LAST REVISION: 9/1/2010

HAZARD CLASS: 8

UN: 1760

PACKING: II

GUIDE NUMBER: 154

SHIPPING NAME: Corrosive liquids N.O.S. (Sodium Hydroxide, DEAE)

SECTION II - HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>%</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
SODIUM HYDROXIDE	10	1310732	PEL = 2mg/M3	STEL = C 2 mg/M3
DIETHYLAMINO ETHANOL	7	100378	PEL = 10 ppm (50mg/M3)	TLV = 2ppm (9.6 mg/M3)

SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 212°F

SPECIFIC GRAVITY: 1.09-1.103

VAPOR PRESSURE: N/A

MELTING POINT: N/A

EVAPORATION: 1.0

VAPOR DENSITY: N/A

PH: 11-12

SOLUBILITY IN WATER: Soluble

APPEARANCE AND ODOR: Light brown to brown liquid, strong amine like odor.

SECTION IV - FIRE/EXPLOSION

FLASH POINT: > 200°F

FLASH POINT METHOD USED: N/A

LEL: 0

UEL: 0

EXTINGUISHING MEDIA: Use material suitable for surrounding fire.

SPECIAL FIRE FIGHTING: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Container contains combustible materials (< 7%). Container retains vapors. Do not weld or cut on or near container. As with all chemicals keep closures tightly closed.

SECTION V - REACTIVITY DATA

STABLE: Stable

INCOMPATIBILITY: Strong acids and oxidizing agents

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Unknown

HAZARDOUS POLYMERIZATION: Will Not Occur

SECTION VI - HEALTH HAZARD DATA

ACUTE HEALTH EFFECTS

EYE CONTACT: Corrosive to the eyes and may cause severe damage including blindness.

INHALATION: Corrosive to the nose, throat, and respiratory tract.

INGESTION: Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

SKIN CONTACT: Substance is corrosive. Cause severe skin burns.

SIGNS AND SYMPTOMS OF EXPOSURE: Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, nausea.

AGGRAVATED MEDICAL CONDITIONS: N/A

SUPPLEMENTAL HEALTH INFORMATION: N/A

EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

WASTE DISPOSAL METHOD: The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, and flame.

OTHER PRECAUTIONS: Empty containers retain product residue and can be dangerous. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: A NIOSH approved respirator with a multi gas cartridge is required when using this product.

VENTILATION: Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits.

PROTECTIVE GLOVES: Nitrile, North brand Silver shield, or neoprene glove are recommended. Check glove manufacturer's recommendations before using.

EYE PROTECTION: Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

OTHER PROTECTIVE CLOTHING: Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

WORK / HYGENIC: Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.