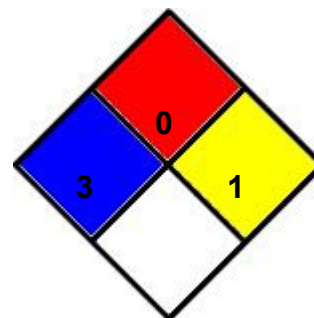


MATERIAL SAFETY DATA SHEET

BC-1111, BC-1112, BC-1113

COMPANY IDENTIFICATION

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



INFORMATION PHONE: 920-994-2299
EMERGENCY: 1-800-255-3924
HMIS

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

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: BC-1111, BC-1112, BC-1113

PREPARED BY: Jason Sprang

DATE PREPARED: 3/21/2003

LAST REVISION: 9/1/2010

HAZARD CLASS: 8

UN: 1824

PACKING: II

GUIDE NUMBER: 154

SHIPPING: Sodium Hydroxide Solution

SECTION II - HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>%</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
SODIUM HYDROXIDE	5-15	1310732	PEL = 2mg/M3	STEL = C 2 mg/M3

SECTION III - PHYSICAL CHARACTERISTICS

BOILING POINT: 212 F

VAPOR PRESSURE: N/A

EVAPORATION: 1.0

pH: 11-12

SPECIFIC GRAVITY: 1.21

MELTING POINT: N/A

VAPOR DENSITY: N/A

SOLUABILITY IN WATER: Soluble

APPEARANCE AND ODOR: Light brown to amber liquid, slight odor

SECTION IV - FIRE/EXPLOSION

FLASH POINT: N/A

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 facepiece 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: N/A

SECTION V - REACTIVITY DATA

STABLE: Stable

INCOMPATIBILITY: Strong acids and oxidizing agents

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Contains sulfites, contact with acids liberates toxic sulfur dioxide gas. Avoid mixing this product with other chemicals.

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: May cause severe and permanent damage to mouth, throat, and stomach.

SKIN CONTACT: Severely irritating; may cause permanent skin damage.

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

AGGRAVATED MEDICAL CONDITIONS: May cause skin and liver disease, may attack respiratory tracks.

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 unless permitted to do so by law.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

OTHER PRECAUTIONS: N/A

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 compatibility, permeation rates, degradation rates, and breakthrough times 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: N/A

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