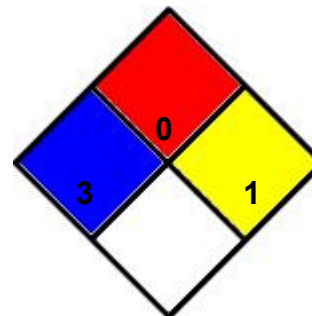


# MATERIAL SAFETY DATA SHEET

## Bi-Special Mix

### COMPANY IDENTIFICATION

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



**INFORMATION PHONE:** 920-994-2299  
**EMERGENCY:** 1-800-255-3924  
**HMS HEALTH:** 3    **FLAMMABILITY:** 0    **REACTIVITY:** 1    **PROTECTIVE:** J

### SECTION I - PRODUCT IDENTIFICATION

**PRODUCT:** Bi-Special Mix

**PREPARED BY:** Jason Sprang

**DATE PREPARED:** 3/21/2003

**LAST REVISION:** 9/1/2010

**HAZARD CLASS:** 8

**UN:** 1760

**PACKING:** PG II

**GUIDE NUMBER:** 154

**SHIPPING:** Corrosive liquid, N.O.S. (Morpholine, Cyclohexylamine, Sodium hydroxide)

### SECTION II - HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>%</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
MORPHOLINE	3.2	110918	PEL = 20 ppm	TLV = 20ppm
CYCLOHEXYLAMINE	1.6	108918	N/A	TLV = 10ppm
SODIUM HYDROXIDE	6	1310732	PEL = 2mg/M3	STEL = 2 mg/M3

### SECTION III - PHYSICAL CHARACTERISTICS

**BOILING POINT:** 212 F

**SPECIFIC GRAVITY:** 1.076

**VAPOR PRESSURE:** N/A

**MELTING POINT:** N/A

**EVAPORATION:** 1.0

**PH:** 13

**SOLUABILITY IN WATER:** Soluble

**APPEARANCE AND ODOR:** Dark brown liquid, strong amine 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:** N/A

### 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. (Sensitizer, Corrosive)

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

**AGGRAVATED MEDICAL CONDITIONS:** May cause damage to kidneys, liver, and upper respiratory tract.

**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. Remove all sources of ignition. 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:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**OTHER PRECAUTIONS:** Always wear proper personal protective equipment. Including approved gloves, safety glasses or goggles, Niosh approved respirator with organic vapor/acid gas/p100 or multigas filter.

### SECTION VIII - CONTROL MEASURES

**RESPIRATORY PROTECTION:** NIOSH approved multigas respirator is required when handling this chemical.

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

**PROTECTIVE GLOVES:** NORTH brand Silver shield gloves are required for this chemical. DO NOT use nitrile or natural rubber for this product. 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:** 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.