

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: HEICO NH-5 FIXER **DATE:** 08/27/06
PRODUCT CODE(S): HG71, HG74, HG79

SECTION I PRODUCT IDENTIFICATION

MANUFACTURER: BRANDESS/KALT/AETNA
701 CORPORATE WOODS PKWY
VERNON HILLS, IL 60061
847-821-4237

EMERGENCY PHONE # CHEMTREC 800-424-9300.

PHYSICAL DATA: LIQUID SOLUTION
SYNONYMS: NONE

SECTION II HAZARDOUS INGREDIENTS

COMPONENTS	CAS #	WEIGHT %
AMMONIUM THIOSULFATE	7783-18-8	Less than 60%
ACETIC ACID	64-19-7	Less than 9%

SECTION III PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 212°F
COLOR: SLIGHT YELLOW-GREEN
SOLUBILITY IN WATER: COMPLETE
EVAPORATION RATE: NO DATA AVAILABLE
STABILITY: PRODUCT IS STABLE UNDER NORMAL CONDITIONS
VAPOR PRESSURE: 16 mm Hg @ 70°F
SPECIFIC GRAVITY: 1.46 MINIMUM

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NOT FLAMMABLE
FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: AS APPROPRIATE FOR COMBUSTIBLES INVOLVED IN FIRE.
SPECIAL FIRE FIGHTING INSTRUCTIONS: KEEP CONTAINERS AND AREA COOLED WITH WATER SPRAY. HEATING MAY CAUSE THE RELEASE OF AMMONIA VAPORS.
UNUSUAL FIRE & EXPLOSION HAZARDS: NONE KNOWN
RESPIRATORY PROTECTION: WITH THE POSSIBLE RELEASE OF AMMONIA VAPORS, WEAR SELF-CONTAINED BREATHING APPARATUS, PRESSURE DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

SECTION V REACTIVITY DATA

CONDITIONS TO AVOID: MIXING WITH STRONG OXIDIZERS SUCH AS NITRATES OR CHLORATES CAN CAUSE EXPLOSIVE MIXTURES. PRODUCT IS NOT COMPATIBLE WITH COPPER, ZINC, OR THEIR ALLOYS. MIXING WITH ACIDS WILL CAUSE THE PROBABLE RELEASE OF SULFUR DIOXIDE. ALKALIS WILL ACCELERATE THE EVOLUTION OF AMMONIA.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: HEATING THIS PRODUCT WILL EVOLVE AMMONIA. HEATING TO DRYNESS WILL CAUSE THE PRODUCTION OF AMMONIA, AMMONIUM SULFATE, SULFUR AND OXIDES OF SULFUR.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI HEALTH HAZARD DATA

CHRONIC EFFECTS OF OVEREXPOSURE/CARCINOGENICITY: NOT LISTED AS A CARCINOGEN BY NTP, IARC, OR OSHA **ACUTE TOXICOLOGICAL PROPERTIES:** LOW TOXICITY TO HUMANS

EMERGENCY AND FIRST AID PROCEDURES:

EYES: IMMEDIATELY FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION OCCURS.

SKIN: FLUSH AREA WITH COLD WATER AND WASH WITH WARM SOAPY WATER.

INHALATION: MAY CAUSE IRRITATION OF THE NOSE, THROAT, AND RESPIRATORY TRACT. IF BREATHING IS DIFFICULT, REMOVE INDIVIDUAL TO CLEAN, FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY. IF PROBLEMS EXIST, SEEK MEDICAL ATTENTION.

IF SWALLOWED: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT TO INCLUDE NAUSEA, VOMITING, AND DIARRHEA. IF VICTIM IS CONSCIOUS, GIVE 2-4 GLASSES OF WATER AND INDUCE VOMITING BY FORCING FINGER DOWN THROAT. SEEK MEDICAL ATTENTION.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

IF SMALL RELEASE: COMBINE AND ABSORB ON SAND EARTH OR OTHER INERT ABSORBENT. USE COLD WATER SPRAY TO DILUTE TO A WEAK SOLUTION.

WASTE DISPOSAL METHOD: COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

SECTION VIII CONTROL MEASURES

RESPIRATORY PROTECTION: NONE GENERALLY REQUIRED

VENTILATION: LOCAL, ADEQUATE EXHAUST

EYES: CONTACT LENSES SHOULD NOT BE WORN. CHEMICAL GOGGLES SHOULD BE WORN.

PROTECTIVE GLOVES: NEOPRENE RUBBER GLOVES