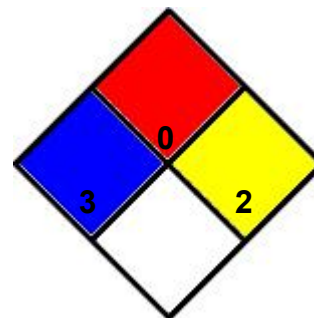


MATERIAL SAFETY DATA SHEET

SULFURIC ACID 66 BE

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:** 2 **PROTECTIVE:** J

SECTION I - PRODUCT IDENTIFICATION

PRODUCT: SULFURIC ACID 66 BE

PREPARED BY: Jason Sprang

DATE PREPARED: 2/28/2003

LAST REVISION: 9/1/2010

HAZARD CLASS: 8

UN: 1830

PACKING: II

GUIDE NUMBER: 154

SHIPPING: Sulfuric Acid

SECTION II - HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>%</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>NIOSH</u>
SULFURIC ACID	97-98	7664-93-9	1 MG/M 3	N/A

SECTION III - PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Liquid

VAPOR PRESSURE (kPa): 0.133 at 146°C

VAPOR DENSITY (Air=1): 3.40

FORMULA WEIGHT: 98.07

SPECIFIC GRAVITY (H₂O=1, at 4°C): 1.6-1.84 at 15°C

WATER SOLUBILITY: Soluble in water

EVAPORATION RATE: Non Vol. at 38°C

pH: < 1

BOILING POINT RANGE: About 290°C (554°F)

SOLUABILITY IN WATER: Soluble

APPEARANCE AND ODOR: Colorless to grey, odorless liquid.

SECTION IV - FIRE/EXPLOSION

FLASH POINT: N/A

LEL: N/A

UEL: N/A

SPECIAL FIRE FIGHTING PROCEDURES: 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 extinguishing media suitable for surrounding area. Water spray or fog, from a safe distance only.

SECTION V - REACTIVITY DATA

STABLE: Yes

INCOMPATIBILITY: Avoid storage with oxidizers and strong caustics. This product reacts with water.

HAZARDOUS POLYMERIZATION: Will Not Occur

HAZARDOUS DECOMPOSITION OR BY PRODUCTS: Noncombustible liquid. Reacts vigorously with water. Heating may cause expansion or decomposition leading to violent rupture of containers. Contact with readily oxidizable organic material may cause ignition /fire. Reacts with metals producing flammable/explosive hydrogen gas. Decomposes on heating and produces acrid and toxic fumes of sulfur oxides (SO_x).

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: Repeated minor exposure to mists can cause erosion of teeth and inflammation of the upper respiratory tract leading to chronic bronchitis. Repeated skin contact with dilute solutions may cause dermatitis. Workers chronically exposed to sulfuric acid mists may show various skin lesions, tracheobronchitis, stomatitis, conjunctivitis and gastritis. Increased risk of laryngeal cancer is associated with chronic exposures.

SUPPLEMENTAL HEALTH INFORMATION: N/A

EMERGENCY FIRST AID PROCEDURES

EYE CONTACT: Immediately hold the eyes open and flush continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

INHALATION: Remove to fresh air. Lay patient down. Keep warm and rested. If available, administer medical oxygen by trained personnel. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Transport to hospital or doctor, without delay.

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: Immediately flush body and clothes with large amounts of water, using safety shower if available. Quickly remove all contaminated clothing, including footwear. Wash affected areas with water (and soap if available) for at least 15 minutes. Transport to hospital or doctor. DO NOT attempt to neutralize burns with alkaline solutions.

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: Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

SECTION VIII - CONTROL MEASURES

PROTECTIVE GLOVES:

Glove Selection Index:

NATURAL RUBBER.....	A
NATURAL+NEOPRENE.....	A
NEOPRENE.....	A
NEOPRENE/NATURAL.....	A
NITRILE.....	A
PE.....	A
PVC.....	A
SARANEX-23.....	A

A: Best selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to dangerous choice for other than short-term immersion

RESPIRATORY PROTECTION: A NIOSH approved full-face 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.

EYE PROTECTION: Use unventilated goggles with this product.

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

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