

HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS.

- ACUTE:** Irritant, ingestion, inhalation-high. May cause severe injury after very short exposure to small quantities.
- CHRONIC:** Irritant, inhalation-moderate. May involve both reversible and irreversible changes; not severe enough to cause death or permanent injury.

SECTION 4**FIRST AID MEASURES****FIRST AID: EMERGENCY PROCEDURES**

EYE CONTACT: Flush with water, including under lids, for fifteen minutes. Obtain immediate medical attention.

SKIN CONTACT: Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

INHALED: Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

SWALLOWED: If patient is conscious, rinse mouth and drink at least two large glasses of water. **DO NOT** induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5**FIRE FIGHTING MEASURES**

FLASH POINT (°F) (METHOD USED): Not combustible.

AUTOIGNITION TEMPERATURE, °F: N.A.

FLAMMABLE LIMITS IN AIR, VOLUME, %: LOWER LIMIT N.A. UPPER LIMIT N.A.

FIRE EXTINGUISHING MATERIALS: Use media appropriate for the surrounding fire.

WATER CARBON DIOXIDE OTHER
 FOAM DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES: Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Generates heat upon addition of water, with possible spattering. Wear a NIOSH/MSHA approved, self-contained breathing apparatus and full protective gear if fully involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Reacts with most metals, especially when dilute, to give flammable, potentially explosive hydrogen gas. Follow appropriate NFPA code.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stop flow if possible. Use appropriate protective equipment during cleanup. Soak up small spills with dry sand, clay or diatomaceous earth. Do not allow this material to enter storm or sanitary sewers.

SECTION 7**HANDLING AND STORAGE**

HANDLING AND STORAGE REQUIREMENTS: Keep container tightly closed. Do not add water to contents while in containers because of violent reaction. Keep out of sun and away from heat, sparks and flame. Loosen closure carefully.

SECTION 8**EXPOSURE CONTROLS / PERSONAL PROTECTION**

VENTILATION: Good general ventilation should be provided to keep vapor mist concise and below expected limits.

RESPIRATORY PROTECTION: Appropriate NIOSH/MSHA respiratory protection.

EYES PROTECTION: Chemical splash goggles, full-length face shield/chemical spill goggles combination.

GLOVES: Acid proof gauntlet gloves.

OTHER CLOTHING AND EQUIPMENT: Apron, boots, long sleeve acrylic or polyester acid proof suit and hood.

WORK PRACTICES, HYGIENIC PRACTICES: Do not get in eyes, on skin or on clothing. Avoid breathing vapors or mist. Wash thoroughly after handling.

SECTION 9**PHYSICAL / CHEMICAL PROPERTIES**

VAPOR DENSITY (AIR =1):	N.D.	SPECIFIC GRAVITY:	1.05-1.15
VAPOR PRESSURE (MM Hg):	N.D.	MELTING POINT (°F):	N.A.
EVAPORATION RATE (BUTYL ACETATE=1):	N.D.	BOILING POINT (°F):	N.D.
SOLUBILITY IN WATER:	Complete	pH:	<1.0
APPEARANCE AND ODOR:	Clear, colorless liquid; no odor.		

SECTION 10**STABILITY AND REACTIVITY**

STABILITY: X STABLE UNSTABLE

CONDITIONS TO AVOID: Excess heat, contact with combustible organics and metals.

INCOMPATIBILITY (MATERIALS TO AVOID): Vigorous reaction with water, alkaline solutions, metal powder, carbides, chlorates, fulminates, nitrates, picrates, strong oxidizing, reducing or combustible organic materials. Hazardous gases are evolved on contact with chemicals such as cyanide, sulfides and carbides.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): Releases sulfur oxides at high temperatures.

HAZARDOUS POLYMERIZATION: MAY OCCUR X WILL NOT OCCUR

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: See section 3.
IRRITATION DATA: See section 3.
TOXICITY DATA: Oral LD50 (rat) 2140 mg/kg (sulfuric acid)
TARGET ORGAN DATA: See section 3.

SECTION 12 ECOLOGICAL INFORMATION

This product is toxic to aquatic life.

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of all chemical wastes at an appropriate waste disposal facility. Follow all local, state, and federal regulations for disposal of waste chemicals.

SECTION 14 TRANSPORT INFORMATION

Proper Shipping Name: Sulfuric Acid
Identification Number: UN2796
Hazard Class: 8
Packaging Group: II

SECTION 15 REGULATORY INFORMATION

This product is regulated as a toxic chemical under Section 313 of Title III/SARA, and 40 CFR, Part 372.
 This product is not regulated by the California Proposition 65 list.
 All ingredients are listed in the TSCA inventory.
 For the purposes of the New Jersey Right to Know Law, the contents are partially known.

SECTION 16 OTHER INFORMATION

H	
Health	3
F	
Flammability	0
R	
Reactivity	0
Personal Protection	D