

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION

Manufactured for: **Product Name: THRUST SULFURIC ACID DRAIN OPENER**
RIC MAR INDUSTRIES SYNONYMS: N/A
 2525 American Lane CHEMICAL FAMILY: INORGANIC ACID CLEANER
 Elk Grove Village IL 60007
 PHONE: (847) 595-9113 EMERGENCY TELEPHONE: (800) 535-5053

HMIS RATING: HEALTH: 3 REACTIVITY: 2
 FIRE: 0 EQUIPMENT:

SECTION II - PRODUCT COMPOSITION

INGREDIENT	%	CAS #	TLV
SULFURIC ACID 66°BAUME	93.2%	7664-93-9	1mg/m ³

* This product is subject to SARA Title III Reporting

DOT SHIPPING DESCRIPTION: Sulfuric Acid, 8, UN 1830, PG II, Corrosive Material

SECTION III - PHYSICAL PROPERTIES

BOILING RANGE: 276°C
 SPECIFIC GRAVITY (H₂O=1): 1.85
 VAPOR PRESSURE (mm of HG) @20°C: < 1
 VAPOR DENSITY (AIR = 1): 3.4
 SOLUBILITY IN H₂O: COMPLETE
 EVAPORATION RATE: < 1
 % VOLATILE: N/A
 REACTIVITY IN WATER:
 PH: < 1
 APPEARANCE AND ODOR: COLORLESS OR CLEAR AMBER LIQUID WITH NO ODOR

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY LIMITS (% IN AIR): N/A
 FLASH POINT (c.c.): DOES NOT EXHIBIT A FLASH POINT
 FLAMMABILITY CLASSIFICATION: N/A
 RECOMMENDED EXTINGUISHING MEDIA: DRY CHEMICAL OR CO₂
 SPECIAL FIRE FIGHTING PROCEDURES: Stay upwind if product is involved in fire.
 Wear full protective clothing. Use water spray to cool containers exposed to fire. Water mixed with acid evolves heat and causes spattering.
 UNUSUAL FIRE/EXPLOSION HAZARDS: Contact with organic materials can cause spontaneous ignition. Contact with metals can evolve hydrogen, a poisonous gas.

SECTION V - HEALTH INFORMATION

THRESHOLD LIMIT VALUE: 1mg/m³ OSHA PEL: 1mg/m³
 EFFECTS OF OVEREXPOSURE: Inhalation of fumes or mists can result in irritation or burns to the upper respiratory tract and lungs, pulmonary edema can also occur. Ingestion of this material will burn the mouth, throat and stomach and can cause death. Eye or skin contact will result in serious burns and may cause blindness. Chronic exposure to this product may result in erosion of the teeth, mouth inflammation, trachea-bronchitis, conjunctivitis and skin lesions.

** ADDITIONAL INFORMATION **

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for particular purposes.

Prepared by: TECHNICAL DEPARTMENT
 Revised: July, 1996

SECTION V - HEALTH INFORMATION (cont'd)

EMERGENCY FIRST AID PROCEDURES:

EYE CONTACT: Flush eyes with cool running water for 30 minutes while calling for IMMEDIATE MEDICAL ATTENTION
SKIN CONTACT: Remove contaminated clothing and shoes. Wash exposed areas thoroughly with soap and water. Get medical attention.
INHALATION: Remove to fresh air. If breathing has stopped give artificial respiration. Get IMMEDIATE MEDICAL ATTENTION
INGESTION: DO NOT INDUCE VOMITING. Give lots of milk or egg whites and water to dilute. Get IMMEDIATE MEDICAL ATTENTION

Route(s) of Entry: Inhalation? X Skin? X Ingestion? X

Health Hazards

- 1.) Acute - Causes chemical burns
- 2.) Chronic - Information on chronic health hazard not currently available.

Chemical Listed as Carcinogen or Potential Carcinogen:

National Toxicology Program:	YES	X NO
I.A.R.C. Monographs:	YES	X NO
OSHA:	YES	X NO

Signs and Symptoms of Exposure: Irritation, burning of skin, mucous membranes and respiratory system.

SECTION VI - REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Extreme heat
INCOMPATIBILITY WITH OTHER MATERIALS: Sulfuric acid is highly reactive and capable of igniting finely divided combustible materials on contact. Reacts violently with water and organic materials with the evolution of heat. Extremely hazardous in contact with many materials, particularly carbides, chlorates, fulminated, nitrates, powdered metals and other combustible materials. Attacks many metals, releasing hydrogen gas.
HAZARDOUS DECOMPOSITION PRODUCTS:
 Extreme temperatures may release sulfur dioxide.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURES

PROCEDURES IF MATERIAL IS SPILLED OR RELEASED: Use protective equipment to avoid contact with skin or eyes. Neutralize spill with soda ash. Flush area with water using care. Un-neutralized acid evolves heat when mixed with water.
WASTE DISPOSAL PROCEDURES:
 Dispose of in accordance with existing local, state or Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required in normal use, though NIOSH approved respirator recommended.
VENTILATION: Local exhaust sufficient, mechanical exhaust not required.
PROTECTIVE GLOVES: Rubber gloves.
EYE PROTECTION: Chemical goggles or full face shield.
OTHER PROTECTIVE EQUIPMENT: Rubber aprons and shoes recommended.

SECTION IX - ADDITIONAL PRECAUTIONS

PRECAUTIONS IN HANDLING AND STORAGE AND OTHER PRECAUTIONS:
 Practice common sense in the handling of these products. Avoid spills and splashing of opened products. Store product in tightly closed original container. Store in cool dry place. Provide adequate ventilation. KEEP OUT OF REACH OF CHILDREN.