

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND DISTRIBUTOR'S INFORMATION						
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special- COR			HMIS Rating: Health-3; Flammability-0; Reactivity-1; Personal Protection-C,D			
Manufactured For: Triple S			DOT Hazard Classification: SULFURIC ACID 8			
Address: 2 Executive Park Drive			Identity (trade name as used on label):			
Address: Billerica, MA 01862			DRAIN MAINTAINER 1			
Phone: 978-667-7900			MSDS Number: R 990		Revision - 9	
Emergency Response Number: 1-800-255-3924			Date Prepared: 04/12/93		Prepared By: ES/IB	
NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			Information Calls: 978-667-7900			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
SULFURIC ACID		7664-93-9	Yes	1mg/M3	1mg/M3	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: 338°C			Specific Gravity (H2O=1): 1.835			
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): 0.0038 mm/Hg at 20°C			
Vapor Density (Air = 1): 3.38			Evaporation Rate (= 1): N/A			
Solubility in Water: Complete			Water Reactive: Violently			
Appearance and Odor: Colorless, clear to cloudy liquid with no odor to mild acid odor.						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A		Auto Ignition Temperature N/A		Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A		
FLASH POINT AND METHOD USED (non-aerosols): None			SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire. DO NOT allow water to enter containers. Violent reaction results.			
EXTINGUISHER MEDIA: CO2 or dry chemical. Use water fog to knock down vapors.						
Unusual Fire & Explosion Hazards: Solutions in contact with metals form hydrogen.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY [X] STABLE [] UNSTABLE			HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR			
Incompatibility (Mat. to avoid): Solvents, oxidizers, reducing agents, combustible materials, organic materials, alkalis, powdered metals, amines, carbides, fulminates, chlorates, nitrates, picrates.			Conditions to Avoid: Heating. Water on sulfuric acid will cause splattering, fuming and evolution of heat.			
Hazardous Decomposition Products: Oxides of sulfur. Hydrogen may be evolved in contact with metal.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [X] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS						
ACUTE EFFECTS: Burns, rapid destruction of all tissue contacted.						
Inhalation: May cause respiratory irritation. Liquid is corrosive.						
Eye Contact: Corrosive.			Skin Contact: Corrosive.			
Ingestion: Corrosive.						
CHRONIC EFFECTS: Dermatitis or secondary effects of burns, chronic over-exposure may cause tooth erosion, chronic cough.						
Medical Conditions Generally Aggravated by Exposure: N/A						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Flush with water for 15 minutes. Seek medical attention.						
Skin Contact: Flush with water for 15 minutes. Seek medical attention.						
Inhalation: Remove victim to fresh air. Get medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink large volumes of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): Not needed in normal use and handling of product.						
Protective Gloves: Rubber			Eye Protection: Chemical goggles and faceshield.			
Ventilation Requirements: Normal room ventilation is usually adequate. As required to keep air concentration below PEL.						
Other Protective Clothing & Equipment: Coveralls, rubber apron and boots. Eyewash station and safety shower.						
Hygienic Work Practices: Avoid contact with liquid & breathing of mists or vapors. Upon contact with eyes or skin, wash off with water immediately.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Dike spill & soak up with inert absorbent. Shovel or sweep & place in properly labeled approved DOT container & seal for disposal in authorized legal manner. Neutralize area with soda ash & dispose of material properly.						
Waste Disposal Methods: Dispose of material according to local, state or federal regulations.						
Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Follow label directions when using. Shelf life one year.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN.						

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

THIS MSDS IS CURRENT AS OF JANUARY 10, 2000. The DATE PREPARED section is the original date assembled and remains current until a change is necessary.