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** Address: 2 Executive Park Drive Address: Billerica, MA 01862	**DOT Hazard Classification:** SULFURIC ACID 8 **Identity** (trade name as used on label)**:** **DRAIN MAINTAINER 1**
Phone: 978-667-7900	**MSDS Number:** R 990 Revision - 9
Emergency Response Number:1-800-255-3924 **NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA**	Date Prepared: 04/12/93 Prepared By: ES/IB 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: 338ºC	**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 20ºC
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 acrid 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 **EXTINGUISHER MEDIA:** CO2 or dry chemical. Use water fog to knock down vapors.	**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.
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 OFJANUARY 10, 2000. The DATE PREPARED section is the original date assembled and remains current until a change is necessary.