Material Safety Data Sheet Conforms with OSHA form OMB No. 1218-0072
DRAIN FLOW Inhibited Sulfuric Acid

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Orange, CT 06477

Emergency Telephone Numbers-
ROEBIC (203) 795-1283
CHEMTREC (800) 424-9300

(Note: Emergency numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident)

Date: 01/01/01 **Packaging Lot No.:** Stamped on carton top
Preparer: Dave Lawler

SECTION I – PRODUCT IDENTIFICATION

Product Name	DRAIN FLOW
Common Synonyms	Drain Opener, (Blended Sulfuric Acid)
Chemical Family	Sulfuric Acid
Formula	H2S04 (Approx. 90%)
CAS No.	7664-93-9 (sulfuric acid)
Precautionary Labeling	**Health** 3 **Flammability** 0 **Reactivity** 0 **Contact** 2
US Precautionary Labeling	Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing mist or fumes. Keep separate from powdered metals, organics, combustible materials, solvents, oxidizers, alkalis, and amines. **Keep out of reach of children.**
International Labeling	Do not get in eyes, on skin, or on clothing. Do not take internally. Avoid breathing mist or fumes. Keep separate from powdered metals, organics, combustible materials, solvents, oxidizers, alkalis, and amines. Keep out of reach of children.

SECTION II – COMPONENTS

Component	**CAS No.**	**Wt %**	**OSHA/PEL**	**ACGIH/TLV**
Diluted Sulfuric Acid	7664-93-9	80	N/A	1-mg/m3
Fortifying Agents	N/A (none carcinogenic)			

SECTION III – PHYSICAL DATA

Boiling Point	221°F 105C
Freezing Point	-20°F -10C
Specific Gravity	1.75
Water Solubility	Complete
pH	1.25
Viscosity	30 SSU @ 100F 32.7C
Odor	Sulfur (sulfur trioxide fumes)
Appearance	Viscous Black Liquid (for safety identification)

SECTION IV – FIRE, REACTIVITY, & EXPLOSION DATA

Non-Flammable:	But explosive hydrogen gas can accumulate if transferred into metal containers.
Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Fire Fighting Techniques:	Wear full protective clothing including self-contained breathing apparatus with full-face piece operated in a positive pressure mode.
Toxic Gas Produced:	Reaction with certain metals can produce flammable hydrogen gas. Provide adequate ventilation when applying.
Explosion Data:	No sensitivity to mechanical impact. No sensitivity to static discharge.

SECTION V – HEALTH HAZARD DATA

Toxicity of Components
Carcinogenic: None Identified
Reproductive effect: None identified

Effects of Overexposure
Inhalation: Irritation of upper respiratory tract
Skin Contact: Irritation
Eye Contact: Irritation
Ingestion: Internal irritation

Emergency and First Aid Procedures
Inhalation: Remove from contaminated atmosphere. Apply artificial respiration if necessary. Call a physician.
Skin Contact: Flush with cool water, then baking soda solution. If irritation persists get medical attention.
Ingestion: Give large quantities of water or milk. Do not induce vomiting. Do not drink carbonated water. Call a physician.
Eye Contact: Immediately flush with large quantities of water. Call a physician.

SECTION VI – REACTIVITY DATA

Stability Stable

Conditions to Avoid Do not allow product to come in contact with strong alkalis. May cause eruption of hot acid when poured in drain. Do not mix with other household chemicals. Never add water to acid while in container because of violent reaction. When empty rinse thoroughly with water before discarding.

Decomposition Sulfur fumes

SECTION VII – SPILLS AND DISPOSAL PROCEDURES

Small Spill Neutralize with sodium bicarbonate or soda ash and flush with large amounts of water.

Large Spill Pump to a soda ash and slack lime solution, then dispose of with large amounts of water.

SECTION VIII – INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet TVL requirements and to minimize exposure.

Respiratory Protection: Respiratory protection is required if airborne concentrations exceed TLV. Above this level use NIOSH approved equipment with full-face piece. Follow respirator manufacturer's recommendations.

Eye and Skin Protection: Safety goggles, protective clothing and rubber or plastic gloves are recommended.

SECTION IX – STORAGE AND HANDLING PRECAUTIONS

Storage Store in high-density polyethylene, rubber lined, fiber glass, or 316 stainless steel containers. Do not store in extreme heat or cold areas. Avoid contact with organic matter. DRAIN FLOW is a strong chemical digester of dead organics.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper Shipping Name Sulfuric Acid 66 Be (blended with buffing agents)
Hazard Class Corrosive Material
UN/NA UN1830/NA
Labels Corrosive
Frt. Classification Cleaning Compound – Class 55

International (I.M.O.)

Proper Shipping Name	Sulfuric Acid 66 Be (blended with buffing agents)
Hazard Class	Corrosive Material
UN/NA	UN1830/NA
Labels	Corrosive
Marine Shipping	Non-pollutant
Air Shipping	Not allowed on passenger flights

SECTION XI – OTHER COMMENTS

This document is intended only as a guide. The user is responsible for determining the precautions and dangers of this chemical formulation for his/her particular application. Supplier cannot warn of all the potential dangers of use or interaction with other chemicals or materials, therefore; disclaims any warranties, expressed or implied with regard to its merchantability or its fitness for a particular purpose. The user is responsible for reading all precautionary information and handling accordingly.