

MATERIAL SAFETY DATA SHEET
(PREPARED ACCORDING TO 29 CFR 1910.1200)

NFPA	Health 3
4= Extreme	Fire 0
3= High	Reactivity 2
2= Moderate	Hazard AC
1= Slight	PPE C
0= Insignificant	

SECTION 1- PRODUCT IDENTIFICATION

TRADE NAME: Floweay Drain Opener **OR** Liquid Lightning Drain Opener TYPE: Mineral Acid
MANUFACTURER: Jones Stephens Corp. EMERGENCY PHONE: 850-654-2030
ADDRESS: 3249 Moody Parkway, Moody, Al 35004
FORMULA: Sulfuric Acid

SECTION 2- HAZARDOUS INGREDIENTS

CHEMICAL/ COMMON NAME	CAS NO.	%WEIGHT	OSHA PEL	TLV	313
Sulfuric Acid	7664-93-9	94.19	3mg/m (3)	1mg/m ³	T

SECTION 2A- NON-HAZARDOUS INGREDIENTS

CHEMICAL/COMMON NAME	CAS NO	%WEIGHT	OSHA PEL	TLV	313
----------------------	--------	---------	----------	-----	-----

SECTION 3- PHYSICAL DATA

PH 1.3	BOILING POINT: 530°F	SPECIFIC GRAVITY (H2O=1): 1.843
VAPPOR PRESSURE (mm Hg): 1.7mm 250°F	VAPOR DENSITY (AIR=1): greater than 1.0	
SOLUBILITY IN WATER: Complete	PERCENT VOLATILE (BY WEIGHT): 7%	
EVAPORATION RATE (ETHER=1): Less than 1.0	WEIGHT/ GALLON: 16.00 LB	
APPEARANCE: Clear to dark brown with no odor		

SECTION 4- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not Flammable FLAMMABLE LIMITS UP: LOW:
EXTINGUISHING MEDIA: Dry Chemical, CO2, or Foam

SPECIAL FIREFIGHTING PORCEDURES: Avoid spraying water into containers, reaction may be violent.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Product reacts violently when water is added. Temperature rise to 240°F.

SECTION 5- REACTIVITY DATA

STABLE: XXX INCOMPATABILITY:
HAZARDOUS DECOMPOSITION: Sulfur Trioxide Gas
CONTDITION TO AVOID: Avoid contact with combustibile materials: Nitrates

SECTION 6- HEALTH HAZARDS

THRESHOLD LIMIT VALUE: 1mg per cubic meter of air.

EFFECTS OF OVEREXPOSURE:

SKIN: Very Corrosive. Will cause severe burns.

EYES: Very Corrosive. Will cause severe burns.

INGESTION: Harmful or Fatal if swallowed.

INHALATION OF MIST: Can injure lungs.

CARCINOGEN: None

SECTION 7- EMERGENCY FIRST AID PROCEDURES

SKIN CONTACT: Flush well with large amount of cool water for 15 minutes. Call physician immediately.

EYE CONTACT: Flush with large amounts of cool water for 15 minutes. See a physician immediately.

INHALATION: Remove to fresh air.

INGESTION: Call physician immediately. Do NOT induce vomiting. If conscious, give large amounts of water, milk, or Milk of Magnesia. Treat for symptoms of shock.

SECTION 8-SPECIAL PROTECTION INFORMATION

RESPIRATORY: Normal use of this material in contact with decaying or organic matter may generate hydrogen sulfide fumes. Avoid breathing fumes.

VENTILATION: Local exhaust generally adequate.

GLOVES: Rubber gloves.

EYE PROTECTION: Chemical safety goggles and face shield.

OTHER PROTECTION: Rubber apron or rubber safety shoes as necessary.

SECTION 9- SPILL OR LEAK PROCEDURES

SPILL PROCEDURE: Flush continuously with water; to neutralize acid area, sprinkle with baking soda, soda ash, or lime. Use only inert clay or sand to pick up spills. Do NOT use sawdust or rags.

DISPOSAL: Flush away with large amounts of water to nearest sewer, if local regulations permit. Otherwise, cover with large amounts of absorbent material as per above then pick up material and store in labeled container in accordance with local, state and federal regulations.

SECTION 10- STORAGE AND HANDLING INFORMATION

PRECAUTIONS: Do not store neat organic product or reactive chemicals. Store in a secure area out of reach of children.

OTHER PRECAUTIONS: Read all directions and cautions before using.

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied is made by Hi-Tec Laboratories, Inc. as to the effects of such use, the results to be obtained or the safety and toxicity of the product nor does Hi-Tec Laboratories, Inc. assume any liability arising out of the use, by others, of the product referred herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.