



**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:** To neutralize acid area, completely cover the area with kitty litter, absorbing compound, sand, baking soda, soda ash, or lime. Use only inert clay or sand to pick up spills. Do NOT use sawdust or rags.

**DISPOSAL:** Once liquid is completely absorbed scoop up into disposable plastic garbage bags tie off bag and dispose in normal household garbage receptacle. Mop area with plain water.

**PUNCTURED BOTTLE:** Liquid in container may be pour directly down the drain and flushed with water. It is recommended to rinse the container and dispose in household garbage receptacle.

### **SECTION 10 – STORAGE AND HANDLING INFORMATION**

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

**OTHER PRECAUTIONS:** Read all directions before using.

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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.

**Revised October 23, 2007**

**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:** Floweasy Drain Opener  
**MANUFACTURER:** Hi-Tec Laboratories, Inc.  
**ADDRESS:** 9646 Highway 20 West, Freeport, FL 32439  
**FORMULA:** Sulfuric Acid

**TYPE:** Mineral Acid  
**EMERGENCY PHONE:** 850-835-6822

**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 <sup>3</sup>	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 degrees F                      **SPECIFIC GRAVITY (H<sub>2</sub>O=1):** 1.843  
**VAPOR PRESSURE (mm Hg):** 1.7mm 250 degrees F      **VAPOR DENSITY (AIR=1):** greater than 1.0  
**SOLUBILITY IN WATER:** Complete                      **PERCENT VOLATILE (BY WEIGHT):** 7%  
**EVAPORATION RATE (EITHER=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, CO<sub>2</sub>, or Foam

**SPECIAL FIREFIGHTING PROCEDURES:** 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 degrees F.

**SELECTION 5 – REACTIVITY DATA**

**STABLE:** XXX                      **INCOMPATIBILITY:**  
**HAZARDOUS DECOMPOSITION:** Sulfur Trioxide Gas  
**CONDITION TO AVOID:** Avoid contact with combustible materials: Nitrates, Chlorates, and Carbides.

**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 materials 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 near organic product or reactive chemicals. Store in a secure area out of reach of children.

**OTHER PRECAUTIONS:** Read all directions before using.

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**Revised September 7, 2007**

**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:** Liquid Lightning  
**MANUFACTURER:** Hi-Tec Laboratories, Inc.  
**ADDRESS:** 9646 Highway 20 West, Freeport, FL 32439  
**FORMULA:** Sulfuric Acid

**TYPE:** Mineral Acid  
**EMERGENCY PHONE:** 850-835-6822

**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/m3	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 degrees F      **SPECIFIC GRAVITY (H2O=1):** 1.843  
**VAPOR PRESSURE (mm Hg):** 1.7mm 250 degrees F      **VAPOR DENSITY (AIR=1):** greater than 1.0  
**SOLUBILITY IN WATER:** Complete      **PERCENT VOLATILE (BY WEIGHT):** 7%  
**EVAPORATION RATE (EITHER=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 PROCEDURES:** 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 degrees F.

**SECTION 5 – REACTIVITY DATA**

**STABLE:** XXX      **INCOMPATIBILITY:**  
**HAZARDOUS DECOMPOSITION:** Sulfur Trioxide Gas  
**CONDITION TO AVOID:** Avoid contact with combustible materials: Nitrates, Chlorates, and Carbides.

**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 materials 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**

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**Revised September 7, 2007**

**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	

Name of Preparer: John Magee  
Date of Preparation: October 31, 2003  
Telephone Number of Preparer: 1-800-355-6637

**SECTION 1 - PRODUCT IDENTIFICATION**

TRADE NAME: Liquid Lightning  
MANUFACTURER: Jones Stephens Corp.  
ADDRESS: 3249 Moody Parkway, Moody, AL 35004  
FORMULA: Sulfuric Acid

TYPE: Mineral Acid  
EMERGENCY PHONE: 850-835-6822

**SECTION 2 - HAZARDOUS INGREDIENTS**

CHEMICAL/Common Name  
Sulfuric Acid

CAS NO.	%WEIGHT	OSHA	PEL	TLV	313
7664-93-9	94.19	3mg/m	(3)	1mg/m <sup>3</sup>	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  
VAPOR PRESSURE (mm Hg): 1.7mm 250°F  
SOLUBILITY IN WATER: Complete  
EVAPORATION RATE (ETHER=1): Less than 1.0  
APPEARANCE: Clear to dark brown with no odor

SPECIFIC GRAVITY (H<sub>2</sub>O=1): 1.843  
VAPOR DENSITY (AIR=1): greater than 1.0  
PERCENT VOLATILE (BY WEIGHT): 7%  
WEIGHT/ GALLON: 16.00 LB

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT: Not Flammable  
EXTINGUISHING MEDIA: Dry Chemical, CO<sub>2</sub>, or Foam

FLAMMABLE LIMITS UP:      LOW:

SPECIAL FIREFIGHTING PROCEDURES: 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 INCOMPATIBILITY:  
HAZARDOUS DECOMPOSITION: Sulfur Trioxide Gas  
CONDITION TO AVOID: Avoid contact with combustible 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

**FICHE SIGNALÉTIQUE SANTÉ ET SÉCURITÉ**  
(PRÉPARÉE EN VERTU DE LA NORME 29 CFR 1910.1200)

Système d'évaluation	Santé 3
4= Danger grave	Inflammabilité 0
3= Danger sérieux	Réactivité 2
2= Danger moyen	Danger AC
1= Danger faible	PPE C
0= Danger minime	

Fiche Signalétique Préparée Par: John Magee  
Date De Préparation: October 31, 2003  
Numéro De Téléphone Du Préparateur: 1-800-355-6637

**SECTION 1 - RENSEIGNEMENTS CONCERNANT LE PRODUIT**

NOM DU PRODUIT: Liquid Lightning  
NOM DU FABRICANT: Jones Stephens Corp.  
ADRESSE: 3249 Moody Parkway, Moody, AL 35004  
FORMULE: Acide sulfurique

TYPE DE PRODUIT: Acide minéral  
N° DE TÉLÉPHONE D'URGENCE: (850) 835-6822

**SECTION 2 - INGRÉDIENTS DANGEREUX**

NOM(S) CHIMIQUE(S)	N° DE CAS	% DU POIDS	OSHA	PEL	TLV	313
Acide sulfurique	7664-93-9	94.19	3mg/m	(3)	1mg/m <sup>3</sup>	T

**SECTION 2A - INGRÉDIENTS NON DANGEREUX**

NOM(S) CHIMIQUE(S)	N° DE CAS	% DU POIDS	OSHA	PEL	TLV	313

**SECTION 3 - CARACTÉRISTIQUES PHYSIQUES**

PH 1.3	POINT D'ÉBULLITION: 530°F	DENSITÉ (H <sub>2</sub> O=1): 1.843
TENSION DE VAPEUR (mm Hg): 1.7mm 250°F	DENSITÉ DE VAPEUR (AIR=1) : Supérieur à 1.0	
SOLUBILITÉ DANS L'EAU: Complète	POURCENTAGE DE VOLATILITÉ (AU POIDS) : 7%	
TAUX D'ÉVAPORATION (ÉTHER=1): Inférieur à 1.0	POIDS / GALLON : 16.00 LB	
APPARENCE: Incolore à brun foncé et aucune odeur.		

**SECTION 4 - RISQUES D'INCENDIE ET D'EXPLOSION**

POINT D'ÉCLAIR: Ininflammable  
LIMITES D'INFLAMMABILITÉ, SUP. : INF. :  
MODE D'EXTINCTION: Agent chimique en poudre, CO<sub>2</sub> ou mousse.

TECHNIQUES SPÉCIALES DE LUTTE CONTRE L'INCENDIE: Éviter d'éclabousser de l'eau dans les contenants; la réaction pourrait être violente. RISQUES PARTICULIERS EN CAS D'INCENDIE OU D'EXPLOSION: Le produit a une réaction violente lorsque de l'eau est ajoutée. La température augmente à 240°F.

**SECTION 5 - RÉACTIVITÉ**

STABLE: XXX  
INCOMPATIBILITÉ:  
PRODUITS DE DÉCOMPOSITION DANGEREUX: Gaz d'anhydride sulfurique  
ÉTATS À ÉVITER: Éviter le contact avec des matières combustibles; Nitrates.

**SECTION 6 - PROPRIÉTÉS TOXICOLOGIQUES**

TLV: 1 mg par mètre cube d'air.  
EFFETS D'UNE EXPOSITION CHRONIQUE:  
PEAU: Très corrosif; provoque des brûlures graves.  
YEUX: Très corrosif; provoque des brûlures graves.  
INGESTION: Nocif et mortel, si avalé.  
INHALATION DE BRUME: Peut endommager les poumons.  
CANCÉROGÉNITÉ: Aucun.

**SECTION 7 - MESURES DE PREMIERS SECOURS**

CONTACT AVEC LA PEAU : Laver à grande eau (fraîche) pendant 15 minutes. Appeler un médecin immédiatement.  
CONTACT AVEC LES YEUX : Rincer à grande eau (fraîche) pendant 15 minutes. Voir un médecin immédiatement.  
INHALATION : Retirer la personne à l'air frais.  
INGESTION : Appeler un médecin immédiatement. Ne PAS faire vomir. Si la personne est inconsciente, lui faire boire beaucoup d'eau, du lait ou du lait de magnésium. Traiter la personne en état de choc.

**SECTION 8 - MESURES DE PRÉVENTION**

PROTECTION DES VOIES RESPIRATOIRES: L'usage normal de ce produit en contact avec des matières organiques ou en décomposition peut engendrer des vapeurs de sulfure d'hydrogène. Éviter d'inhaler les vapeurs.  
VENTILATION: Les systèmes de ventilation locaux sont généralement adéquats.  
GANTS: Des gants en caoutchouc.  
PROTECTION DES YEUX: Les lunettes de protection à l'épreuve des produits chimiques et un écran de protection faciale.  
AUTRE ÉQUIPEMENT DE PROTECTION: Un tablier ou des souliers de protection en caoutchouc, s'il y a lieu.

**SECTION 9 - MESURES EN CAS DE FUITE OU DE DÉVERSEMENT**

DÉVERSEMENT: Rincer continuellement avec de l'eau; pour neutraliser l'acide, répandre de l'hydrogénocarbonate de