TEIJIN

TEIJIN AUTOMOTIVE TECHNOLOGIES

MATERIAL APPROVAL REQUEST FORM (MARF)

Attach the Safety Data Sheet of the material which is being reviewed for environmental consideration.

Section 1: To be completed by REQUESTOR

REQUESTED BY:	Tracey Allen
FACILITY:	Sarepta
MATERIAL/CHEMICAL:	Liquid Fire Drain Cleaner
FUNCTION/PURPOSE:	Clear stopped up water drains
LOCATION/AREA TO BE USED:	All bathrooms and common areas with sinks.
ESTIMATED MONTHLY USE:	32 oz
REQUEST SUBMITTED BY:	Tracey Allen

Forward completed MARF with attached documents to Corporate EHS for approval.

Section 2: To be completed by VICE PRESIDENT EHS&S.

- [X] Approved for use
- [ ] Approved for Trial Use Only (Provide Executive Director of EHS with trial results for reclassification of material).
- [ ] Provisionally approved contingent upon:
- [ ] Rejected:

Signature (Vice President EHS&S)

October 8, 2024

Date

Safety Data Sheet

Issue Date: 01-May-2014 **Revision Date:** **22**-Mar-2018 **Version** 3

1. IDENTIFICATION

Product Identifier
Product Name Liquid Fire Drain Line Opener

Other means of identification
SDS # API-001

UN/ID No UN1830

Recommended use of the chemical and restrictions on use
Recommended Use For clogged drains only.

Details of the supplier of the safety data sheet
Supplier Address
Amazing Products, Inc.
P.O. Box 14226
Louisville, KY 40214

Emergency Telephone Number
Company Phone Number Phone: 502-361-3655
Fax: 502-361-1810
E-mail: amazingp2@gmail.com
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Amber liquid **Physical state** Liquid **Odor** Slight pungent odor

Classification

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Signal Word
Danger

Hazard statements
Causes severe skin burns and eye damage



Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Sulfuric Acid	7664-93-9	90-100

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice

In the event of accidental contact, inhalation or ingestion call 911 and make medical personnel aware of the material/s involved and to take precautions to protect themselves while treating affected patient/s.

Eye Contact

Irrigate with copious amounts of water. Occasionally lift the upper and lower eyelids unto no evidence of the chemical remains (15-20 minutes minimum). Remove contact lenses, if present and easy to do. continue rinsing. Call a physician or poison center immediately. Continue rinsing with tepid water until medical attention is obtained.

Skin Contact

Remove contaminated clothing and irrigate skin with copious amounts of water. Wipe off excess product. Rinse skin with water/shower for 15 minutes (pay close attention to: Folds, crevices, creases, groin). While the patient is transported to a medical facility, continue the application of cold, wet compresses. Note to physicians: If medical treatment must be delayed, repeat the flushing with tepid water or soak the affected area with tepid water to help remove the last traces of sulfuric acid. Creams or ointment should not be applied before or during the washing phase of the treatment. Call a physician if irritation persists. Wash contaminated clothing separately before reusing.

Inhalation

Remove from exposure. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison center if symptoms develop or persist. If breathing has stopped, give artificial respiration. Maintain airway and blood pressure.

Ingestion

Rinse mouth, administer small amounts of water or milk if the patient is not in respiratory distress and can swallow (Child: up to 4 oz. or adult: 8 oz.). do not induce vomiting. Spontaneous vomiting: keep head below hips to prevent aspiration; Rinse mouth and give 1/2 to 1 cup of water or milk. Unconscious person: do not induce vomiting or give any liquid. Immediately obtain medical attention.

Most important symptoms and effects

Symptoms Inhalation may cause respiratory tract discomfort. Contact with liquid, mist or vapor can cause immediate irritation or corrosive burns to all human tissue. Severity of the burn is generally determined by the concentration of the solution and duration of exposure. Contact with eyes may result in permanent visual loss unless removed quickly by thorough irrigation with water. Repeated skin contact with dilute solutions may cause dermatitis. May cause dental erosion. May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use dry chemical or CO2 base fire extinguishers to fight surrounding fire.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Violent reaction with water. Evolution of explosive hydrogen gas on contact with most metals will react with organic material with evolution of heat and dense white fumes. May cause ignition of combustible materials on contact with the generation of sulfur dioxide fumes.

Hazardous Combustion Products Explosive hydrogen gas is generated by the action of acid on most metals.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not use water on acid itself. Apply from farthest possible distance.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Utilize full protective clothing, including boots and protective equipment.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Contain spill in order to prevent contamination of sewage system or waterway. Pump into marked containers for reclamation or disposal. If possible, neutralize on a dry basis with water in accordance with applicable regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Store away from other chemicals and potential sources of contamination. Do not use pressure to empty container.

Incompatible Materials Highly reactive with materials such as metal oxides, hydroxides, nitrates, amines, carbonates and other alkaline materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfuric Acid 7664-93-9	TWA: 0.2 mg/m^3 thoracic particulate matter	TWA: 1 mg/m^3 (vacated) TWA: 1 mg/m^3	IDLH: 15 mg/m^3 TWA: 1 mg/m^3

Appropriate engineering controls

Engineering Controls Room or area must have total ventilation using open windows and/ or fans. Safety showers and eyewash fountains should be easily accessible.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side shields, goggles and/or a face shield.

Skin and Body Protection Rubber gloves, rubber footwear and protective clothing (acid resistant hood and full body suit recommended).

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Amber liquid	**Odor**	Slight pungent odor
Color	Amber	**Odor Threshold**	Not determined

Property	Values	Remarks • Method
pH	1	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	279 °C / 535 °F	
Flash Point	Not flammable	
Evaporation Rate	< than (1)	
Flammability (Solid, Gas)	Not determined	
Flammability Limits in Air		
Upper Flammability Limits	Not available	
Lower Flammability Limit	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	(Air=1)
Relative Density	-1.835	
Water Solubility	Soluble	
Solubility in other solvents	Not available	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	

Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
May cause ignition of combustible materials on contact with the generation of sulfur dioxide fumes. Explosive hydrogen gas is generated by the action of acid on most metals.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid
Keep out of reach of children.

Incompatible Materials
Highly reactive with materials such as metal oxides, hydroxides, nitrates, amines, carbonates and other alkaline materials.

Hazardous Decomposition Products
Explosive hydrogen gas is generated by the action of acid on most metals.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Do not inhale.

Ingestion May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid 7664-93-9	= 2140 mg/kg (Rat)	-	= 510 mg/m^3 (Rat) 2 h

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes severe skin burns.

Serious eye damage/eye irritation Causes severe eye damage.

Carcinogenicity IARC has classified "strong inorganic acid mist containing sulfuric acid" as a Category 1 carcinogen, substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid. Inorganic mist is not generated under normal use of this product.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulfuric Acid 7664-93-9	A2	Group 1	Known	X

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer)
Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program)
Known - Known Carcinogen
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 2,303.00 mg/kg mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sulfuric Acid 7664-93-9		500: 96 h Brachydanio rerio mg/L LC50 static	29: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Sulfuric Acid 7664-93-9	Toxic Corrosive

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No	UN1830
Proper Shipping Name	Sulfuric acid, solution
Hazard Class	8
Packing Group	II

IATA

UN/ID No	UN1830
Proper Shipping Name	Sulfuric acid, solution
Hazard Class	8
Packing Group	II

IMDG

UN/ID No	UN1830
Proper Shipping Name	Sulfuric acid, solution
Hazard Class	8
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sulfuric Acid	X	X	X	Present	X	Present	X	X

Legend:

TSCA *- United States Toxic Substances Control Act Section 8(b) Inventory*

DSL/NDSL *- Canadian Domestic Substances List/Non-Domestic Substances List*

EINECS/ELINCS *- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

ENCS *- Japan Existing and New Chemical Substances*

IECSC *- China Inventory of Existing Chemical Substances*

KECL *- Korean Existing and Evaluated Chemical Substances*

PICCS *- Philippines Inventory of Chemicals and Chemical Substances*

AICS *- Australian Inventory of Chemical Substances*

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sulfuric Acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Sulfuric Acid - 7664-93-9	7664-93-9	92.94	1.0

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric Acid	1000 lb			X

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals, however this classification does not apply to liquid forms of sulfuric acid. Inorganic mist is not generated under normal use of this product.

Chemical Name	California Proposition 65
Sulfuric Acid - 7664-93-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sulfuric Acid 7664-93-9	X	X	X

16. OTHER INFORMATION

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical hazards**	**Personal Protection**
	Not determined	Not determined	Not determined	Not determined

Issue Date: 01-May-2014
Revision Date: 22-Mar-2018
Revision Note: Transportation update

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet