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SAFETY DATA SHEET

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Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: DEO MITE

Product Description: LIQUID SULFURIC ACID NON-FUMING DRAIN OPENER

Other Means of Identification

Product # 071
Synonyms None

Details of the Supplier of the Safety Data Sheet

Company Name CHEMCO INDUSTRIES, INC.
5731 Manchester Avenue
St. Louis, MO 63110
www.chemcoindustries.com
314-647-1888
1-800-854-4236 (to Reorder)

Emergency Telephone Number

Emergency Telephone INFOTRAC 1-800-535-5053

2. HAZARDS IDENTIFICATION

Appearance: Clear-tan colored

Physical State: Liquid

Odor: None

Classification:

OSHA Regulatory Status: this chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity, inhalation Category 2
Skin Corrosion/Irritation Category 1A
Serious Eye Damager/Eye Irritation Category 1
Carcinogenicity Category 1A
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation
Hazardous to the aquatic environment, acute hazard Category 3
Hazardous to the aquatic environment, long-term hazard Category 3

Label elements

Danger

Hazard Statements

Causes severe skin burns and eye damage. Causes serious eye damage. Fatal if inhaled. May cause respiratory irritation. May cause cancer. Harmful to aquatic life. Harmful to aquatic life with long-lasting effects.



Precautionary Statements - Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapor.

Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 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.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container in accordance with local/regional/national/international regulations.

Precautionary Statements - Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified (HNOC)

Not classified.

Supplemental information

Not classified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
Sulfuric Acid	7664-93-9	60-100	*
Other components below reportable levels	-		*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control immediately.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Inhalation: Remove individual to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if individual inhaled substance. Induce artificial respiration with the aid of a pocket mask equipped with at one-way valve or other proper respiratory medical device. Call a poison control or physician immediately.

Ingestion: Contact a physician or poison control immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed

Burning pain and severe corrosive skin damage. Irritation of nose and throat. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep individual warm. Keep individual under observation. Symptoms may be delayed.

General Information

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this SDS to the physician in attendance.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Powder. Foam. Carbon Dioxide.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific Hazards Arising from the Chemical

During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters

Firefighters must use/wear full protective equipment and self-contained breathing apparatus in case of fire.

Specific Methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk.

General fire hazards

No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment. Do not breathe vapors or spray mist. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised in significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

Environmental precautions

Avoid release into the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and material for containment and cleanup

Methods for Containment and Cleaning Up: This product is miscible in water. Large spills: Stop the flow of material, if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (e.g. cloth or fleece). Clean surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors or spray mist. Do not get in eyes, on skin or on clothing. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release into environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials, such as strong alkalis or flammables.

Incompatible Materials: Alkalis. Metals.

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	PEL: 1 mg/m ³	TWA: 1 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

Individual protection measures, such as personal protective equipment

Eye/Face Protection: Chemical goggles and face shield recommended when working with chemicals. Chemical respirator with organic vapor cartridge and full face-piece.

Skin and Body Protection: Wear chemical resistant gloves. Use an impervious apron is recommended.

Respiratory Protection: Chemical respirator with organic vapor cartridge and full face-piece, if needed.

General Hygiene Considerations: When using do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoothing. Regular cleaning of equipment, work area and clothing is recommended, to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Clear
Color	Tan
Odor	No scent

<u>Property</u>	<u>Values</u>	<u>Remarks - Method</u>
pH	< 2 (1% DI water)	
Melting Point/Freezing Point	No information available	
Boiling Point/Boiling Range	550 F (287.78 C)	
Flash Point	No information available	
Evaporation Rate	No information available	
Flammability (Solid, Gas)	No information available	
Upper Flammability Limits	No information available	
Lower Flammability Limits	No information available	
Vapor Pressure	1 mm HG @ 300	
Vapor Density	No information available	
Specific Gravity	1.84	(Water=1)
Water Solubility	Soluble	
Partition Coefficient	No information available	
Auto-ignition Temperature	No information available	
Decomposition Temperature	No information available	
Viscosity	No information available	
VOC Content	None	

10. STABILITY AND REACTIVITY

Reactivity

This product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability

Material is stable at normal conditions.

Possibility of Hazardous Reaction

Hazardous polymerization does not occur.

Conditions to Avoid

Avoid contact with incompatible materials

Incompatible Materials

Alkalis. Metals.

Hazardous Decomposition Products

Irritating and/or toxic fume and gases may be emitted upon the product's decomposition. Hydrogen gas. Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes serious eye damage.

Skin Contact Causes severe skin burns.

Inhalation Fatal if inhaled.

Ingestion Causes digestive tract burns.

Symptoms related to the physical, chemical, and toxicological characteristics: Burning pain and severe corrosive skin damage. Irritation of nose and throat. Symptoms may include stinging, redness, tearing, swelling and blurred vision. Causes serious eye damage. Permanent eye damage including blindness could result. May cause respiratory irritation.

Information on toxicological effects

Acute toxicity: Fatal if inhaled. May cause respiratory irritation.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric Acid 7664-93-9	2140 mg/kg (Rat)	-	347 mg/l, 1 hour (Rat)

*Estimates for product may be based on additional component data not shown.

Skin/eye irritation: Causes severe burns and eye damage.

Sensitization: This product is not expected to cause skin sensitization.

Germ cell mutagenicity: No information available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: May cause cancer. IARC (1 carcinogenic to humans) NTP (known to be human carcinogen) OSHA (No information available).

Reproductive toxicity: Not expected to cause reproductive or developmental effects

STOT - single exposure: May cause respiratory irritation.

STOT - repeated exposure: No information available.

Target organ effects

Aspiration hazard: No information available.

Chronic effects: Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effect. Accumulation in aquatic organisms is expected.

Persistence/Degradability

No information available

Bioaccumulation

No information available

Mobility

No information available

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Collect or dispose in sealed containers and licensed waste disposal site. Do not drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local Disposal Regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused products: Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See disposal instructions)

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. TRANSPORT INFORMATION

DOT

UN/ID No UN1830
Proper Shipping Name Sulfuric Acid
Hazard Class 8
Packing Group II

IATA

UN/ID No UN1830

Proper Shipping Name Sulfuric Acid
Hazard Class 8
Packing Group II

IMDG

UN/ID No UN1830
Proper Shipping Name Sulfuric Acid
Hazard Class 8
Packing Group II

Environmental Class
Marine Pollutant No

15. REGULATORY INFORMATION

International Inventories

Australia, Canada, China, Europe, Japan, Korea, New Zealand, Philippines - Yes*
 Canada, Europe - No

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory - Yes
 DSL/NDSL - Canadian Domestic Substances List - Yes/Non-Domestic Substances List - No
 *A Yes indicates that all components of this product comply with the inventory requirements administered by the governing county(s). A No indicated that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

US Federal Regulations

Superfund Amendments and Reauthorization Act of 1986

Acute health hazard	Yes
Delayed hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

SARA 313 (TRI reporting)

Sulfuric Acid (7664-93-9) - 93.2% of weight

SARA 302/304 Extremely hazardous substance

Sulfuric Acid (7664-93-9) - Reportable quantity - 1000 Threshold planning quantity - 1000 lbs

SARA 311/312 Hazardous Chemical - Yes

CERCLA

Sulfuric Acid (7664-93-9) - Listed.

CAA (Clean Air Act) Section 112 Hazardous Air Pollutants (HAPs) List - Not regulated.

CAA(Clean Air Act) Section 112(r) Accidental Release Prevention (40 CFR 68.130) - Sulfuric Acid (7664-93-9)

SDWA (Safe Drinking Water Act) - Not regulated.

DEA (Drug Enforcement Administration). List 2, Essential Chemicals (21 CFR 1310.04(f)(2) and Chemical Code Number -

Sulfuric Acid (7664-93-9) 6552

DEA, List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) - Sulfuric Acid (7664-93-9) 20% Weight /Volume

DEA, Exempt Chemical Mixtures Code Number - Sulfuric Acid (7664-93-9) 6552

US State Regulations

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US-California Proposition 65-CRT: Listed carcinogenic substance - Sulfuric Acid (7664-93-9)

US State Right-to-Know Regulations

Chemical Name	New Jersey - Rhode Island	Massachusetts	Pennsylvania
Phosphoric Acid 7664-38-2	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	3	0	2	Yes
<u>HMS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3*	0	2	B

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 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.