

OSHA-Required Health And Safety Information!

This Material Safety Data Sheet (MSDS) was requested moments ago from Hercules Automated Fax Information System. Please forward it immediately to the person in charge of MSDS's, or retain it at the machine until claimed.

Section 1

MATERIAL SAFETY DATA SHEET # 203 Drain Snake



**MATERIAL
 SAFETY
 INFORMATION
 SERVICE**

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Date Prepared: 11/17/1999 Last Reviewed: 10/10/2005

Meets OSHA 29 CFR 1910.1200

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s), CAS Numbers)	OSHA PEL	ACGIH TLV	Other Limits	% Upper Bound Limit if SARA Reportable
This product is not for consumer use or sale. For professional use only. Always replace cap after use.				
Sulfuric Acid (Concentrated) (CAS 7664-93-9)		1mg/m ³ (mist)	N/A	93%

HMIS Hazard Rating: Health: 3 Flammability: 0 Reactivity: 2 Personal Protection: H

Section 3 - Physical/Chemical Characteristics

Boiling Point (°C):	Specific Gravity (H ₂ O =1):	Vapor Density (Air =1):	Vapor Pressure (mm Hg):
279 (535° F)	1.84	N/A	<1
Melting Point (° F)	Evaporation Rate:	Solubility in Water:	
N/A	N/A	Completely soluble	
Appearance And Color:	Brown oily liquid		Odor: Slight sulfur dioxide (rotten egg)

Section 4 - Fire And Explosion Hazard Data

Flash Point:	Flammable Limits	LEL:	UEL:
Not flammable	N/A	N/A	N/A

Extinguishing Media: For fires in the area, use approved extinguishing media such as water, CO₂ or dry chemical. Use water spray or fog to knock down corrosive vapor cloud.

Special Firefighting Procedures:

Product is non-flammable, but high temperature of surrounding fire may generate corrosive and toxic sulfur trioxide gases. Use NIOSH/OSHA approved self contained breathing apparatus and full protective clothing. Cool containers that are exposed to flames with streams of water until fire is out. Caution: water applied directly to product results in evolution of heat and causes spattering. When heated, product will emit highly toxic fumes.

Unusual Fire And Explosion Hazards:

Product may react violently with water creating heat and steam and dangerous spattering. Contact with some materials will release hydrogen gas, creating additional potential fire and explosion hazard.

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Section 5 - Reactivity Data

Stability: Stable **Conditions To Avoid:** Avoid temperatures greater than 300°C. Yields toxic and corrosive sulfur trioxide gases. Do NOT add water. Do not mix with caustic or alkali.

Incompatibility (Materials To Avoid): Organics, chlorates, carbides, fulminates, picrates, metals, acids. Reacts readily with many chemicals -- DO NOT mix with any other chemical. Product will destroy most organic materials.

Hazardous Decomposition: Sulfur trioxide gas, sulfuric acid mist, sulfur dioxide at elevated temperatures.

Hazardous Polymerization: Will Not Occur

Section 6 - Health Hazard Data

Routes of Entry **Inhalation?** Yes **Skin?** Yes **Ingestion?** Yes

Health Hazards

CORROSIVE TO ALL BODY TISSUES. EYES: Mist or solution rapidly causes severe irritation of the eyes and eyelids if not removed by prompt and thorough irrigation with water. NO irritation, corneal burns, and conjunctivitis leading to severe or permanent injury and/or loss of sight. SKIN: Contact with liquid causes severe burns unless immediately and thoroughly washed off. Exposure to concentrated mist may cause burns or dermatitis. INGESTION: If swallowed, will cause serious burns to mucous membranes of the mouth, throat, and stomach, or perforation of the esophagus and/or stomach. Ingestion can be fatal. INHALATION: Mist causes irritation or corrosive burns to respiratory system, including nose, mouth, throat and esophagus, with immediate pain and difficulty in swallowing. Lung irritation as well as laryngeal, tracheobronchial, and pulmonary edema can also occur. Inhalation may be fatal.

Carcinogenicity **NTP?** NO **IARC?** NO **OSHA Regulated?**

NOTE: Sulfuric acid mist is listed as a known carcinogen by both the NTP and IARC.

Signs And Symptoms of Exposure:

See "Health Hazards" above. Repeated or prolonged exposure to low concentrations have been reported to cause; erosion of teeth, irritation and lesion of skin, tracheobronchitis, mouth inflammation, conjunctivitis, and frequent respiratory infections, emphysema, and digestive disorders.

Medical Conditions Generally Aggravated By Exposure:

Chronic respiratory diseases or conditions including asthma, bronchitis, emphysema, nervous system diseases, eye and skin disorders and conditions.

Emergency And First Aid Procedures:

EYES: Flush with plenty of gently running water for at least 15 minutes. Forcibly hold eyelids apart to ensure flushing of all eye and eyelid tissue (Washing eyes within 1 minute is essential to achieve maximum effectiveness. Get immediate medical attention, but do not transport unless flushing is completed or can be continued in transit. SKIN: Flush contaminated areas thoroughly with plenty of water for at least 15 minutes. Remove contaminated clothing. If large areas of the body are contaminated or clothing is penetrated, immediately use safety shower. Remove contaminated clothing and footwear. After washing skin cover affected area with moist milk of magnesia or baking soda. GET IMMEDIATE MEDICAL ATTENTION, but complete flushing prior to transport. Wash and decontaminate clothing/footwear. INHALATION: Remove to fresh air. CALL EMERGENCY MEDICAL CARE. IF breathing has stopped, use artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. INGESTION: Do NOT induce vomiting. Give large amounts of water or milk and immediately call EMERGENCY MEDICAL CARE. Do not give carbonates. If vomiting occurs, keep airways clear. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. NOTE TO PHYSICIANS: This material is extremely corrosive to all body tissues. IF swallowed, gastric lavage should be used only with extreme caution.

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Section 7 - Precautions For Safe Handling And Use:**Steps To Be Taken In Case Material Is Released Or Spilled:**

SMALL SPILLS: Do not allow any contact with acid, mist, or vapors. Dilute spill with copious amounts of water, if practical and safe flush to sewer. Neutralize remaining mat'l with baking soda. If flushing to sewer is not safe, contain diluted spill with any inert absorbent then neutralize with baking soda (sodium bicarbonate). FOR LARGER SPILLS: Use NIOSH/OSHA respirator and full protective clothing. No skin surface should be exposed. Notify fire/health authorities. Neutralize with lime or soda ash. If applicable due to runoff, notify pollution authorities.

Waste Disposal Method:

Materials resulting from cleanup may be hazardous. Package, store, transport and dispose of in accordance with appropriate Federal, State and Local regulations. Be sure that all responsible agencies are informed of disposal.

Precautions To Be Taken In Handling And Storing:

Handle with extreme care. Store containers upright during transportation, storage and handling. Have applicable first aid equipment and running water available. NEVER add cold water to product in container. Do not use or mix with any other chemical -- a violent eruption of hot corrosive acid can occur. Store in upright position at floor level only

Other Precautions:

Store in cool dry place. Keep separate from alkalis, metal explosives and easily ignitable material.

Section 8 - Control Measures:**Respiratory Protection:**

NIOSH/OSHA Respirator where applicable

Ventilation: Local Exhaust Use only in well ventilated areas.

Mechanical: See local exhaust

Special? Acid-resistant gloves, apron,

Other: N/A

Gloves: Acid resistant

Eye Protection: Chemical Safety Goggles. Have eye bath available.

Other Protective

Clothing: Acid Resistant

Work/Hygienic Practices: Safety Shower



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For Hercules Material Safety Data Sheets by fax anytime, day or night, just call 1-800-942-INFO (1-800-942-4636) from any Touch-Tone phone. Have your fax number ready. Checking the product label for the correct MSDS # will save time.