

SAFETY DATA SHEET

Section 1: Product and Manufacturer Identification

Distributed by:
1st Ayd Corporation
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Elgin, IL 60124
Phone: 847-622-0001

Emergency Response Number:
800-255-3924

Product Name:

Drain Force Professional - Sulfuric Acid Drain Opener

Product Formula Code / Product Number:

F1006 / I001A-1006-08 (1QT (32oz) Bottle)

Revision Date:

02/14/14

Section 2: Composition/Information on Ingredients

Name of Hazardous Ingredient(s)	CAS #	%	Exposure Limits
Sulfuric Acid; Oil of vitriol	7664-93-9	> 50	OSHA PEL (U.S.) TWA: 1 mg/m ³ - 8 Hrs (Mist) ACGIH TLV (U.S.) TWA: 0.2 mg/m ³ - 8 Hrs

Section 3: Hazards Identification

Potential Acute Health Effects

Eyes Corrosive to the eyes. Short term eye exposure may cause severe and permanent injury, or blindness.

Skin Corrosive to the skin. Skin contact may cause skin inflammation, blistering, chemical burns.

Ingestion Very hazardous if ingested. May be fatal if swallowed. May cause burns to mouth, throat and stomach.

Inhalation Breathing vapors of mist from product may produce severe irritation of the respiratory tract, characterized by coughing, choking or shortness of breath. Overexposure to mists or vapors may produce lung damage, unconsciousness or death.

Potential Carcinogenic Effects

Inhalation of spray mists can cause cancer. Classified 1 (Proven for Humans) by IARC - Sulfuric Acid Mists.

Potential Chronic Health Effects

Substance may be toxic to upper respiratory tract, skin, eyes and teeth. Repeated or prolonged exposure can produce chronic eye irritation, skin irritation or respiratory irritation (leading to frequent bronchial infections). Repeated exposure may cause a general deterioration of health by an accumulation in one or more human organs.

Section 4: First Aid Measures

Eye Contact Immediately flush eyes with cool running water for a minimum of 20 minutes. Check for and remove contact lenses. Hold eyelids away from eye while continuing to flush with water. Get medical help immediately.

Skin Contact Immediately flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing and shoes. If irritation or burning persists then continue to flush with water and get medical help. Do not apply any ointments to affected skin unless directed by a physician. Discard heavily contaminated clothing and shoes. Otherwise launder clothes in a separate wash before reuse.

Inhalation Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. If breathing is difficult, give oxygen and get medical help immediately.

Ingestion DO NOT INDUCE VOMITING. If victim is alert and not convulsing, rinse mouth with water and give 1/2 to 1 glass of water to dilute material. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitous. IMMEDIATELY contact physician or poison control center.

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Section 5: Fire Fighting Measures

Flammability of Product	Product is not flammable
Fire Hazards	If product is released it can react with metals which may liberate hydrogen gas. Hydrogen gas can form an explosive/flammable mixture if concentrated with air. Product reacts violently with water with the evolution of heat.
Hazardous Decomposition Products	Thermal decomposition products include sulfur oxides, nitrogen oxides.
Fire Fighting Procedures	Wear protective clothing and gear with self-contained breathing apparatus. Cool containers of product with water spray. Do not release runoff from fire to sewers or waterways.

Section 6: Accidental Release Measures

Personal Precautions	Do not touch or walk through spilled material. Ventilate area. Wear appropriate respirator when ventilation is inadequate, and put on appropriate protective equipment before handling material, (see section 8 for appropriate respirator and PPE).
Spill Clean Up	Absorb spill with an inert material and place into plastic waste container. Wash floors and other contaminated surfaces with a neutralizing solution (soda ash or lime). Rinse surfaces with fresh water. Ensure adequate decontamination of equipment following clean-up. Dispose of spill material and clean-up solutions according all federal, state and local regulations.

Section 7: Handling and Storage

Handling	Do not ingest. Do not get into eyes or on skin or clothing. Do not breath fumes or vapor spray. Use only with adequate ventilation. Do not use or mix with other chemicals. Do not reuse the empty product container. Wash thoroughly after handling this product. Observe all of the label precautions.
Storage	Keep containers tightly closed. Keep containers or cases of product in well-ventilated warehouse at storage temperatures between 40 degrees and 100 degrees fahrenheit. Keep all food and drink away. Keep out of the reach of children.

Section 8: Exposure Controls, Personal Protection

Hygiene Measures	Ensure that eyewash stations and safety showers are close to the work location. Wash hands, forearms and face thoroughly after handling this product, and before eating, smoking or using the lavatory.
Respiratory	Provide exhaust ventilation to keep airborne concentrations of the vapor below the threshold limit value. If ventilation is inadequate, then operator should wear a NIOSH/MSHA approved air-purifying respirator equipped with an acid gas/fume mist cartridge for vapor concentrations up to 10 mg/m3.
Eyes	Chemical splash goggles or face shield is recommended when handling this product. Eye protection is advised even when handling a closed (capped) container.
Skin	Chemical resistant gloves, apron and sleeves are recommended when handling this product. Gloves, aprons, etc. are recommended even while handling closed containers.

Section 9: Physical and Chemical Properties

Physical State	Liquid (Oily Liquid)	Color	Brown
Odor	Odorless	Molecular Weight	98 g/mol
pH	< 1	Specific Gravity	1.84 (Water = 1.0)
Vapor Pressure	0.1 kPa (1 mm Hg)@20C	Solubility	Miscible in water

Section 10: Stability and Reactivity

Chemical Stability	Product is stable
Incompatibility	Product is reactive or incompatible with reducing agents/chemicals, organics, metals and alkalis. Product reacts vigorously with water. Never pour water into the concentrated acid.
Hazardous Polymerization	Will not occur under normal conditions of storage and use.
Hazardous Decomposition	Sulfur oxide vapors (SO ₂ , SO ₃) may be released when sulfuric acid decomposes.

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Section 11: Toxicological Information

Acute Toxicity

Product/Ingredient	Result	Species	Dose
Sulfuric acid	LD50 Oral	Rat	2140 mg/kg

Section 12: Ecological Information

Ecotoxicity Information not available

Biodegradable/OECD Information not available

Section 13: Disposal Considerations

Waste Disposal The generation of waste should be avoided or minimized whenever possible. Dispose of non-recyclable waste material via a licensed waste disposal contractor. Disposal of this product or any resulting waste stream should comply with all federal, state and local environmental control regulations.

Section 14: Transport Information

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG	Additional Information
DOT Classification	UN1830	Sulfuric Acid	8	II	<p>Reportable Quantity 1000 lbs (454 Kg)</p> <p>Limited Quantity Yes</p> <p>Packaging Instructions Passenger Aircraft Quantity Limitation: Forbidden</p> <p>Cargo Aircraft Quantity Limitation: 30 L</p>

Section 15: Regulatory Information

U.S. Federal Regulations

U.S. Inventory (TSCA): All components are listed or exempted
SARA 302/304/311/312 Extremely Hazardous Substances: Sulfuric Acid
SARA 302/304 Emergency Planning and Notification: Sulfuric Acid
SARA 313 Form R Reporting Requirements: Sulfuric Acid
Clean Water Act (CWA) 311: Sulfuric Acid RQ - 1000 Lbs
Clean Air Act (CAA) 112 Regulated Toxic Substances: No products were found

State Regulations

California Prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Strong inorganic mists containing sulfuric acid.

Section 16: Other Information

HMIS and NFPA Hazard Ratings (Scale: 0 to 4)

Health:	4	Be Safe.
Flammability	0	Wear personal protective equipment when using this product.
Reactivity	2	
Personal Protection	X C D	

The health and safety hazards and the safety/ handling information presented in this SDS represents the best information currently available to PCI, Inc. PCI, Inc. makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and assumes no liability resulting from its use. Each user should read the SDS and consider the information in the context of how this product will be handled and used in the workplace including its use in conjunction with other products. If more information is needed to ensure that an appropriate risk assessment can be made, users should conduct their own investigations.