

Safety Data Sheet



Zep Inc.
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Atlanta, GA 30318
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Section 1. Chemical Product and Company Identification

Product name Sulfuric Acid Drain Opener
Product use Industrial Drain Cleaner
Product code 1686
Date of issue 10/24/12 **Supersedes** 07/31/09

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-793-7776

For Medical Emergency
(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

DANGER ! POISON



CAUSES EYE, SKIN AND MUCOUS MEMBRANE BURNS. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact. Inhalation.

Eyes Causes eye burns. Eye exposure may cause severe and permanent eye injury (blindness).

Skin Causes skin burns. Skin contact can produce inflammation and blistering.

Inhalation Do not breathe vapor or mist. Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

Ingestion May be fatal if swallowed. May cause burns to mouth, throat and stomach. Get immediate medical attention.

Chronic effects Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Contains material which may cause damage to the following organs: upper respiratory tract, teeth.

Carcinogenicity Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
sulphuric acid	A2	1	-	-	Proven.	-

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SULFURIC ACID; oil of vitriol	7664-93-9	>90

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

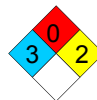
Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention immediately.

Inhalation Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion Get medical attention immediately. Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



Flash Point None.

Flammable Limits Not available.

Flammability Not available.

Fire hazard Reacts with water, producing toxic and corrosive fumes. May emit toxic fumes under fire conditions. In a fire or if heated, a pressure increase will occur and the container may burst.

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to drains or watercourses.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Empty containers retain product residue and can be hazardous. Do not reuse container. Observe label precautions. Do not use with other products. Wash thoroughly after handling.

Storage Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

SULFURIC ACID; oil of vitriol

Exposure limits

OSHA PEL (United States).
TWA: 1 mg/m³ 8 hour(s). Form: Mist

ACGIH TLV (United States, 2/2010).
TWA: 0.2 mg/m³ 8 hour(s).

OSHA PEL 1989 (United States, 3/1989).
TWA: 1 mg/m³ 8 hour(s).

NIOSH REL (United States, 6/2009).
TWA: 1 mg/m³ 10 hour(s).

OSHA PEL (United States, 6/2010).
TWA: 1 mg/m³ 8 hour(s).

Personal Protective Equipment (PPE)



Eyes Face shield. Splash goggles.

Body Wear appropriate protective clothing to prevent skin contact.
Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves. Acid resistant protective clothing. Chemical resistant boots.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.

Section 9. Physical and Chemical Properties

Physical State Liquid. [Oily liquid.]

pH < 1 Acidic.

Boiling Point 287.8°C (550°F)

Specific Gravity 1.82

Solubility Soluble in the following materials: cold water.

Color Pink. [Light]

Odor Pungent. Acid.

Vapor Pressure 0.13 kPa (1 mm Hg)

Vapor Density Not determined.

Evaporation Rate Not determined.

VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials, metals and alkalis.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
sulphuric acid	LC50 Inhalation Vapor	Mouse	160 mg/m ³	4 hours
	LC50 Inhalation Vapor	Rat	255 mg/m ³	4 hours
	LD50 Oral	Rat	2140 mg/kg	-
	LD50 Oral	Rat	2140 mg/kg	-

Section 12. Ecological Information

Environmental Effects Toxic to: Fish.

Aquatic Ecotoxicity


Product/ingredient name	Test	Result	Species	Exposure
sulphuric acid	-	Acute LC50 42500 ug/L Marine water	Crustaceans - Aesop shrimp - Pandalus montagui - Adult	48 hours
	-	Acute LC50 10 ppm	Fish	96 hours

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D002
Classification: - [Hazardous waste.]
Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	1830	Sulfuric Acid	8	II	
IMDG Class	Not available.	Not available.	Not available.		

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Product name

Sulfuric Acid

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Sulfuric Acid RQ 1000 lbs. (454 kg)

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

TSCA 8(a) IUR: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

State Regulations**California Prop 65** : sulphuric acid**Section 16. Other Information**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.