

# Safety Data Sheet

Issue Date: 17-Feb-2010

Revision Date: 30-Jul-2014

Version 1

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Kleen Away Drain Opener

**Product No.** K39

### Other means of identification

**SDS #** CPI-001

**UN/ID No** UN1830

### Recommended use of the chemical and restrictions on use

**Recommended Use** Drain opener.

### Details of the supplier of the safety data sheet

<b>Supplier Mailing Address</b>	<b>Supplier Office Address</b>
Kayline Company P.O. Box 603207 Cleveland, OH 44103	Kayline Company 3303 Lakeside Avenue Cleveland, OH 44114

### Emergency Telephone Number

**Company Phone Number** Phone: 1-800-426-5820; 1-216-566-9858  
Fax: 1-216-566-1228

**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Black liquid

**Physical State** Liquid

**Odor** Acid odor

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

### Signal Word

**Danger**

### Hazard Statements

Causes severe skin burns and eye damage  
Harmful if inhaled



**Precautionary Statements - Prevention**

Use personal protective equipment as required  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Use only outdoors or in a well-ventilated area  
 Wear respiratory protection  
 Wash face, hands and any exposed skin thoroughly after handling

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician  
 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 and in an upright position.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

<b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Chemical Name	CAS No	Weight-%
Sulfuric Acid	7664-93-9	Proprietary

\*\*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.\*\*

<b>4. FIRST-AID MEASURES</b>
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**First Aid Measures**

<b>General Advice</b>	Immediately call a poison center or doctor/physician.
<b>Eye Contact</b>	Flush eyes with water 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Immediately call a poison center or doctor/physician.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. Drink large quantities of water or milk, follow with milk of magnesia, beaten eggs or vegetable oil. Call a physician immediately.

**Most important symptoms and effects**

<b>Symptoms</b>	May be harmful if swallowed. Inhalation of concentrated vapor or mist may damage respiratory tract. Causes severe skin burns and eye damage. 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. Harmful if inhaled.
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**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically. Repeated skin contact with dilute solutions may cause dermatitis. May cause dental erosion.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Dry chemical. Alcohol resistant foam. Carbon dioxide (CO2). Halon.

**Small Fire** Use dry chemicals or carbon dioxide.

**Large Fire** Flood fire area with water from a distance.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Evolution of explosive hydrogen gas on contact with most metals will react with organic material with evolution of heat and dense white fumes.

**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. Expect violent reaction with water. Do not get solid stream of water on spilled material. Cool exterior of storage tanks.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Ensure adequate ventilation, especially in confined areas. Avoid contact with skin and eyes and inhalation of vapors. Use personal protective equipment as required.

**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** Use 10% soda ash with sand to slurry spillage mix and add water continuously, scoop up and wash down drain with excess water.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Wash face, hands, and any exposed skin thoroughly after handling. Do not add water to acid. Do not combine alkaline drain cleaners.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store locked up. Keep in a dry, cool and well-ventilated place. Keep container tightly closed and in an upright position. Store away from incompatible materials. Avoid excessive heat and below freezing temperature. Keep out of the reach of children.

**Incompatible Materials** Strong bases. Organic materials (such as chlorates, carbides, fulminates and picrates).

## 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 <sup>3</sup> thoracic fraction	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Controls** Mechanical windows. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Face shield or splash protection glasses.

**Skin and Body Protection** Rubber gloves. Plastic covering for clothing and shoes.

**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

<b>Physical State</b>	Liquid	<b>Odor</b>	Acid odor
<b>Appearance</b>	Black liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Black		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH	1		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	276 °C / 529 °F		
Flash Point	Not available		
Evaporation Rate	<1	(n-BuAc=1)	
Flammability (Solid, Gas)	Liquid- Not applicable		
Upper Flammability Limits	Not available		
Lower Flammability Limit	Not available		
Vapor Pressure	0.0016 mmHg		
Vapor Density	3.4	(Air=1)	
Specific Gravity	1.775	(Water = 1)	
Water Solubility	Completely soluble		
Solubility in other solvents	Not determined		
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**

Contact with organic materials (such as chlorates, carbides, fulminates and picrates) may cause fire and explosions. Contact with metals may produce flammable hydrogen gas.

**Hazardous Polymerization** Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to Avoid**

Incompatible Materials.

**Incompatible Materials**

Strong bases. Organic materials (such as chlorates, carbides, fulminates and picrates).

**Hazardous Decomposition Products**

Toxic gases and vapors (e.g. sulfur dioxide, sulfuric acid vapor/ mist and sulfur trioxide) may be released when sulfuric acid decomposes.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

<b>Product Information</b>	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
<b>Eye Contact</b>	Causes severe eye damage. Contact with eyes may result in permanent visual loss unless removed quickly by thorough irrigation with water.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Inhalation</b>	Fatal if inhaled. Inhalation of concentrated vapor or mist may damage respiratory tract.
<b>Ingestion</b>	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 <sup>3</sup> ( 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**

<b>Skin corrosion/irritation</b>	Causes severe skin burns.
<b>Serious eye damage/eye irritation</b>	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 or sulfuric acid solutions contained within a battery. Inorganic acid mist is not generated under normal use of this product. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist.

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**

Not determined

## 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	Toxicity to microorganisms	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
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

## 15. REGULATORY INFORMATION

**International Inventories**

Not determined

**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	Proprietary	1.0

**CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfuric Acid 7664-93-9 ( Proprietary )	1000 lb			X

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals.

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**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	3	0	2	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	3	0	2	C

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**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**