

FORT ATKINSON, WI 53538-0901 MODESTO, CA 95356-9318 1-800-558-9595

IMPORTANT

MATERIAL SAFETY DATA SHEET

READ CAREFULLY BEFORE USING CHEMICAL	
OSHA requires that this form be kept on file.	
Product No. KM 1053-M	
Product Name SULFURIC ACID, 95-98%	`
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4-EXTREME 3-SEVERE 2-MODERATE 1-SLIGHT 0-MINIMAL Reactivity 3

24 HOUR EMERGENCY ASSISTANCE

CHEMTREC 800-424-9300

Chemical Synonyms	Oil of Vitriol
Formula	H₂SO₄
C.A.S. No.	7664-93-9

korresiyahas kuri keli inyasiri

Principal Hazardous Component(s)	%	P.E.L.	TLV Units
*Sulfuric Acid	95-98	1 mg/m³	1 mg/m ³
	1		
★ chemical subject to the reporting requirements of SARA Title III.			

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Melting Point (°F)	ca. 6°F	Specific Gravity (H ₂ O=1)	1.84
Boiling Point (°F)	ca. 590°F	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	1 @ 146°C	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	<0.3 @ 25°C		
Solubility in Water	Infinite @ 20°C		
Appearance & Odor	Colorless, oily liquid; odor	less.	
THE SHARING LITTLE	· 保护工程的 10.50%		

Flash Point (Method Used)		Flammable Limit % by Volume		Lower N/A	Upper N/A
Extinguisher Media	Dry chemical, foam or carbon containers cool.	dioxide. Water spray	may be us	ed to keep fire	exposed

Special Firefighting Procedures

In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Reacts with most metals releasing flammable, potentially explosive hydrogen gas.

D.O.T.	Sulf	acid,	8,	UN1830,	PGII	4

hreshold Limit Value

1 mg/m³ (TWA)

Effects of Overexposure

Inhalation: Inhalation produces damaging effects on the mucous membranes and upper respiratory tract. May cause lung edema. Symptoms may include irritation of the nose and throat, and labored breathing. Ingestion: Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea. Skin Contact: Symptoms of redness, pain, and severe burn can occur. Eye Contact: Splashes can cause blurred vision, redness, pain and severe tissue burns. Chronic Exposure: Long-term exposure to mist or vapors may cause damage to teeth.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Ingestion: Do not induce vomiting. Give large quantities of water or milk if available. Call a physician immediately. Never give anything by mouth to an unconscious person. Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. Eye Contact: Wash eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Stability	y	Conditions to Avoid		
Stable 🗷 Unstable 🗆 N/A				
Incompatibili (Materials to		Water, bases, organic material, halogens, metal acetylides, oxides and hydrides, strong oxidizing and reducing agents and many other reactive substances		
Hazardous Decompositio	n Products	Toxic furnes of oxides of sulfur. Will react with water or stream to produce toxic and corrosive furnes Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.		
Hazardous Pol	ymerization	Conditions to Avoid		
	Will Not Occur	N/A		

Steps to be Taken in Case Material is Released or Spilled

Dike and cover leaking or spilled liquid with dirt, vermiculite or other inert absorbent. Cover spill with sodium bicarbonate or soda ash and mix. Clean-up personnel require protective clothing and respiratory protection from vapors and mists. Flush area of spill with dilute soda ash solution and discard to sewer.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only Neutralized waste may be containerized and disposed in a RCRA approved waste disposal facility.

Respiration Protection (Specify Type)	NIOSH appro	ved respi	rator if TL	V exc	eeded.
N	Local Exhaust	Х		Special	
Ventilation	Mechanical (General)	******		Other	
Protective Gloves	Impervious gl	Impervious gloves Eye Prote		ction	Goggles and faceshield
Other Protective Equipment	Impervious protective clothing				

Precautions to be Taken in Handling & Storing

Keep container tightly closed when not in use.

Store in a cool, dry, ventilated storage area. Keep out of direct sunlight and away from heat, water and incompatible materials.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

When diluting, always add the acid to water; never add water to the acid.

Approved by	Steven C. Quandt	Effective Date	10/31/94	For laboratory use only. Not for drug, food or household use. Keep out of reach of children