

## **Gujarat Alkalies and Chemicals Ltd. Vadodara**

SULPHURIC ACID   Company	SECTION 1: Product a	SECTION 1: Product and Company Identification							
P.O. Petrochemicals, Dist.: - Vadodara, Gujarat(India), Pin Code: 391346  Synonyms Hydrogen sulfate; Vitriol brown oil; Oil of vitriol  Phone no. 09979897101, 09879604102  E-mail headmarketing@gacl.co.in ccr@gacl.co.in  SECTION 2: Hazards Identification  Emergency Overview  Danger May be harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.  May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation.  Skin May be harmful if absorbed through skin. Causes skin burns. Causes skin irritation.  Causes skin irritation.  Lay be harmful if swallowed. Disposal Dispose of contents/container to an approved waste disposal plant  SECTION 3: Composition/information on ingredients Component CAS-No. EC-No. Weight %  Sulphuric Acid 7664-93-9 231-639-5 78 %  SECTION 4: First Aid Measures  Inhalation  If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance, give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.  Skin Wash off immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove and wash contaminated clothing before re-use. Call a physician immediately.  Eyes Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.  Do not induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately.  Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation	Name		-						
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Emergency Contact Details    Phone no.   09979897101, 09879604102	Synonyms								
E-mail   headmarketing@gacl.co.in	-								
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		damage to	the delica	ate tissue and dar	nger of perforation				
SECTION 5: Fire Fighting Measures	Notes to Physician		Treat sy	mptomatically					
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Suitable Exting	uishing Med	ia	Use water spray alco	hol-resistan	t foam dry ch	emical or carbon	
			Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.				
Flash Point			Not applicable	Explosi	Explosion Limits		
Auto ignition Temperature			No data available	Upper		No data available	
				Lower		No data available	
Hazardous Coi	mbustion Pro	ducts	Sulfur oxides Hydrogo	en			
Specific Hazar	ds Arising fro	m the	Thermal decompositi	on can lead	to release of i	rritating gases and	
Chemical			vapours. The product	causes burr	of eyes, skin	and mucous	
			membranes.				
NFPA: Health		lammab	•	ctivity: 2 Speci		al hazards: ACID-COR	
SECTION 6: A	Accidental F	Release	Measures				
Personal Preca	autions		Ensure adequate ven		-	• •	
			Evacuate personnel t	o safe areas.	Keep people	away from and	
			upwind of spill/leak.				
Environmenta	•		Should not be release				
Methods and materials for			Soak up with inert absorbent material. Keep in suitable, closed				
containment a			containers for dispos	dI.			
SECTION 7: I							
Handling	<u> </u>	nal protective equipment. Do not get in eyes, on skin, or on clothing. Use only mical fume hood. Do not breathe vapors or spray mist. Do not ingest.					
Ctorogo							
Storage	water. Corro	_	tly closed in a dry, coo	oi and well-v	entilated plac	e. Keep away from	
CECTION 9. I							
		murois/	Personal Protection	אכ			
Exposure Guidelines:							
Co	mnonont		OCHA DEI		,	VCCIH TIV	
	mponent		OSHA PEI			ACGIH TLV	
Sulp	huric Acid	llse on	1 mg/m³		(	0.2 mg/m <sup>3</sup>	
	huric Acid		1 mg/m³ nly under a chemica	al fume ho	od. Ensure a	0.2 mg/m <sup>3</sup> adequate ventilation,	
Sulp	huric Acid	especia	1 mg/m³ nly under a chemica	al fume ho s. Ensure t	od. Ensure a hat eyewash	0.2 mg/m <sup>3</sup>	
Sulp	huric Acid leasures	especia showers	1 mg/m³ nly under a chemica lly in confined area	al fume ho s. Ensure t	od. Ensure a hat eyewash	0.2 mg/m <sup>3</sup> adequate ventilation,	
Sulp Engineering M	huric Acid leasures ective Equipm	especia showers ent	1 mg/m <sup>3</sup> Ny under a chemically in confined areas  s are close to the wor	al fume ho s. Ensure t kstation loca	od. Ensure a hat eyewash ition.	0.2 mg/m <sup>3</sup> adequate ventilation,	
Sulp Engineering M Personal Prote	huric Acid leasures ective Equipm	especia showers ent Tightly	1 mg/m <sup>3</sup> Ily under a chemically in confined areas are close to the wor	al fume ho s. Ensure t kstation loca Face shield	od. Ensure a hat eyewash ation. (8-inch minin	0.2 mg/m <sup>3</sup> adequate ventilation, stations and safety	
Engineering M Personal Prote	huric Acid leasures ective Equipm ection	especia showers ent Tightly for eye standar	1 mg/m <sup>3</sup> ally under a chemically in confined area are close to the work  fitting safety goggles are protection tested area.	al fume ho s. Ensure t kstation loca Face shield and approve	od. Ensure a hat eyewash ation. (8-inch minin ed under app	0.2 mg/m <sup>3</sup> adequate ventilation, stations and safety num). Use equipment propriate government	
Sulp Engineering M Personal Prote	huric Acid leasures ective Equipm ection	especia showers ent Tightly for eye standar Comple	1 mg/m³ nly under a chemically in confined area is are close to the work fitting safety goggles is protection tested and its suit protecting	al fume ho s. Ensure t kstation loca Face shield and approve	od. Ensure a hat eyewash ation.  (8-inch minined under appeamicals, the	2.2 mg/m <sup>3</sup> adequate ventilation, stations and safety num). Use equipment propriate government	
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point		gas)						
Initial boiling point and	290 - 338 °C	Decomposition	340 °C					
boiling range		temperature						
Vapour pressure	< 0.001 mmHg @ 20 °C	Specific Gravity	1.84					
Vapour density	3.38 (Air = 1.0)	Oxidizing properties	No data available					
SECTION 10: Stability and Reactivity								
Reactive Hazard								
Stability	Reacts violently with water	. Hygroscopic.						
Conditions to Avoid	Incompatible products. Excess heat. Exposure to moist air or water.							
Incompatible Materials	Water, Organic materials, Strong acids, Strong bases, Metals, Alcohols, Cyanides, Sulphides.							
Hazardous Decomposition	Sulphur oxides, Hydrogen							
Products								
Hazardous Polymerization	Hazardous polymerization does not occur.							
Hazardous Reactions	None under normal processing.							
SECTION 11: Toxicological Information								
Acute toxicity	$LD_{50}$ Oral - 2140 mg/kg (Rat), Inhalation - $LC_{50}$ = 510 mg/m3 (Rat) 2 h							
Carcinogenicity	A2 - Suspected Human Carcinogen							
SECTION 12: Ecological Information								
Eco toxicity	Toxicity to fish LC <sub>50</sub> - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h							
Other	An environmental hazard cannot be excluded in the event of							
	unprofessional handling or disposal.							
	Harmful to aquatic life with long lasting effects.							
SECTION 13: Disposal Considerations								
Waste treatment methods								
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed								
professional waste disposal service to dispose of this material. Dissolve or mix the material with a								
combustible solvent and burn in a Chemical incinerator equipped with an afterburner and scrubber.								
SECTION 14: Transport Information								
UN number	1830							
UN proper shipping name	Sulfuric acid							
Transport hazard class	8							
Packaging group	II							
Environmental hazards IMDG Marine pollutant: No								
SECTION 15: Regulatory Information								

This safety datasheet complies with the requirements of Regulation.

## **SECTION 16: Other Information**

## Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

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