



ATUL LIMITED

Bulk Chemicals & Intermediates Division

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MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT IDENTIFICATION		
TRADE NAME	Sulphuric acid 98 %	
CHEMICAL NAME	Sulphuric acid	
EMERGENCY CONTACT NO.	(02632) 233261 to 233265	
SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS		
INGREDIENTS	CAS #	
Sulphuric acid 98 %	8014-95-7	
SECTION 3 HAZARDS IDENTIFICATION		
Corrosive Poisonous if inhaled or swallowed. Skin contact poisonous. Contact could cause burns to skin and eyes. Fire could produce irritating or poisonous gases. Runoff from fire-control or dilution water could cause pollution. Contact with skin or eyes will cause burning dependent on concentration. Breathing high concentrations may cause coughing or sneezing. Ingestion: Serious burns of mouth. REACTION.		
SECTION 4 EMERGENCY AND FIRST AID PROCEDURES		
EYE CONTACT	Flush eyes with water for 15 minutes. Hold eyelids open while washing.	
SKIN CONTACT	Wash off with water. Remove clothing. Shower thoroughly. IMMEDIATELY remove contaminated clothing and drench affected area with running water for 20 minutes.	
INHALATION	Remove from contaminated area. Give oxygen. CPR if indicated. Move to fresh air.	
INGESTION	Do not induce vomiting. Rinse mouth. Immediately give plenty of water to drink. Prompt medical attention is vital.	
SECTION 5 FIRE FIGHTING MEASURES		
FIRE	Some of these materials may react violently with water. Move container from fire area if you can do it without risk. Cool containers that are exposed to flames with water from the side until well after the fire is out. Stay away from ends of tanks. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Positive- pressure self-contained breathing apparatus (SCBA) and chemical protective clothing that is specifically recommended by the shipper or manufacturer may be worn. It will provide little or no thermal protection. Structural firefighter's protective clothing is NOT effective with these materials.	
EXPLOSION	Not considered to be an explosion hazard.	
FIRE EXTINGUISHING MEDIA	SMALL FIRES: Dry chemical, CO ₂ , Halon, water spray or alcohol foam. LARGE FIRES: Water spray, fog or standard foam is recommended.	
SECTION 6 ACCIDENTAL RELEASE MEASURES		
Personal protection: As a minimum use chemical-resistant gloves, eye/face and breathing protection. Environmental precautions: Downwind evacuation may be necessary. Methods for cleaning up: Contain spillages by damming or construction of barriers. Neutralize with alkali (e.g. soda ash). If possible absorb with earth or non-organic absorbent material then shovel or pump into dry well-labelled containers for disposal or recovery. Wash spillage area with large amounts of water.		

SECTION 7 HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Do not breathe fumes. Provide adequate ventilation. Storage Store in stainless steel or glass, in well-ventilated area, away from sunlight and moisture. Keep away from strong bases and organic compounds.

SECTION 8 PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION	Provide self-contained breathing apparatus or an airline mask.
SKIN PROTECTION	Complete protective body overclothing, rubber hand gloves and shoes.
EYE PROTECTION	Side covered safety goggles / face shield
VENTILATION	Provide sufficient ventilation at the storage place for fumes in case of leakage.

SECTION 9 PHYSICAL DATA

BOILING POINT (°C)	330 °C	FREEZING POINT (°C)	3 °C
SPECIFIC GRAVITY	1.84	SOLUBILITY IN WATER	Soluble
APPEARANCE AND ODOR	Colourless to cloudy oily liquid	MOLECULAR WEIGHT	98

SECTION 10 REACTIVITY DATA

STABILITY	Chemically stable
INCOMPATIBILITY	Water, Steam , Reacts with alkalis generating heat.Diluted acid reacts with most metals and generates highly flammable hydrogen.
OTHER	Strong acid generates sulphur dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

LC₅₀	347 mg/kg
Other	Inhalation: May cause corrosion, pain, vomiting, burns to the mouth and throat and perforation of the oesophagus. Inhalation of the fumes may cause fluid build up on the lung (pulmonary oedema) up to 24 hours after exposure which could prove fatal. Skin Contact: May cause severe second and third degree burns. Eye Contact: May cause corrosion and permanent damage if eye is not immediately irrigated. Ingestion: No effects except those secondary to tissue damage. Long Term Exposure: Prolonged/repeated contact may cause redness, cracking and dermatitis of the skin.

SECTION 12 ECOLOGICAL INFORMATION

AQUATIC TOXICITY	No ecological problems are expected when the product is handled and used with due care. Users should ensure that they comply with environmental legislation. Environmental fate and mobility: May be very dangerous if allowed to enter drinking water intakes. Persistence, degradation and bioaccumulation: Fish toxicity critical conc. = 10mg/l (7.34 mg/l/48hrs - Lymnaea Palustris 0-100% mortality) Effect on effluent treatment: Harmful to aquatic life in low concentrations.
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SECTION 13 DISPOSAL CONSIDERATION

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste. Disposal in accordance with local legal provisions.

SECTION 14 TRANSPORT INFORMATION

UN No 1830	Hazchem Code 2p
EAC 59	ERG No. 137
IMDG Code 8220	IMDG-Packaging Group II
Marine Pollutant yes	Class : Class: 8 Corrosive Group: II
Subsidiary Risks : None	

SECTION 15 REGULATORY INFORMATION

EC Hazard Classification : Users should ensure that they comply with relevant legislation.
Dangerous Substances Directive 67/548/ECC

Risk Phases: Causes severe burns

Safety Phases: Keep out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
NEVER ADD WATER TO THIS PRODUCT

SECTION 16 OTHER INFORMATION

NFPA	HMIS	
	HEALTH	3
	FLAMM.	0
	REACT.	2

This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. While this information and recommendations set forth are believed to be accurate as of the date hereof, ATUL LIMITED makes no warranty with respect hereto and disclaims all liability from reliance thereon.