

MATERIAL SAFETY DATA SHEET

SULPHURIC ACID (H₂SO₄)

1. TECHNICAL DATA:

Physical State	:	Liquid
Color	:	Colourless oily dense liquid
Odour	:	None
Melting Point	:	3°C
Boiling Point	:	280°C for 98% Concentration
Specific Gravity	:	1.8
TLV	:	1.0 mg / M ³
IDLH	:	80.0 mg / M ³
Solubility	:	Soluble in water in all proportions

2. CHEMICAL REACTIVITY:

Reacts vigorously with evolution of heat. The concentrated acid is a powerful oxidizing agent. When hot, it dissolves most metals and reacts vigorously with nitrates, carbides and chlorates. It reacts with most organic compounds.

3. HEALTH HAZARADS:

- Liquid sulphuric acid can cause severe damage to the eye, often leading to blindness.
- Contact with skin causes rapid burning similar to burns from hot surfaces.
- Inhaling of vapour can cause damage to the respiratory and digestive tracts.

4. PERSONAL PROTECTIVE EQUIPMENT:

Gum shoes, pvc gloves, Apron / pvc suit, goggles / Face slide emergency showers/eye wash fountains etc., Respiratory protective equipment where vapour is present.



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5. FIRST AID:

- In case of splash into eyes / on the body, wash thoroughly with water for atleast 15 minutes.
- In case of inhalation of vapour remove the affected person to fresh air and get medical aid.

6. PRECAUTIONS:

- Work system should be followed.
- In case of spillage absorb in earth and sand and remove to safe place.
- Spent acid solutions should be neutralized before letting into sewers.
- While diluting add acid to water, never water to acid.