

SUFLFURIC ACID

Synonyms: Battery acid, Hydrogen sulfate, Oil of vitriol, Sulfuric acid (aqueous)

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/ SYMPTOMS	PREVENTION	FIRST AID/ FIRE FIGHTING
FIRE	Not combustible. Many reactions may cause fire or explosion. Gives off irritating or toxic fumes (or gases) in a fire.	NO contact with flammable substances. NO contact with combustibles	NO water. In case of fire in the surroundings: powder, AFFF, foam, carbon dioxide
EXPLOSION	Risk of fire and explosion on contact with base(s) combustible substances oxidants reducing agents water		In case of fire: keep drums, etc., cool by spraying with water but NO direct contact with water.
EXPOSURE		PREVENT GENERATION OF MISTS! AVOID ALL CONTACT!	IN ALL CASES CONSULT A DOCTOR!
•INHALATION	Corrosive. Burning sensation. Sore throat. Cough. Labored breathing. Shortness of breath. Symptoms may be delayed (see Notes).	Ventilation, local exhaust	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
•SKIN	Corrosive. Redness. Pain. Blisters. Serious skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
•EYES	Corrosive. Redness. Pain. Severe deep burns.	Face shield or eye protection	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
•INGESTION	Corrosive. Abdominal pain. Burning sensation. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Refer for medical attention.

Chemical Dangers: The substance is a strong oxidant and reacts violently with combustible and reducing materials. The substance is a strong acid, it reacts violently with bases and is corrosive to most common metals forming a flammable/explosive gas (hydrogen). Reacts violently with water and organic materials with evolution of heat. Upon heating, irritating or toxic fumes (or gases) (sulfur oxides) are formed.

Physical Dangers: Noncombustible Liquid, but capable of igniting finely divided combustible materials.

Storage: Incompatibilities and reactivity's include combustibles and reducing substances, strong oxidants and strong bases.

Handling, Containment Devices and PPE: Use in an exhaust hood with natural rubber or PVC chemical resistant gloves (if heavy exposure is anticipated contact Safety and Health for other glove options). And chemical goggles. If a splash hazard to the face is present, a face shield is also required.

Waste Disposal: Collect and store in a glass container labeled with the following "Hazardous Waste – Sulfuric Acid." Call Safety and Health at x5069 on the Health Science Campus and x3600 on the Main Campus for pick up.

Emergency Spill Procedures and Decontamination: Call x77 on the Health Science Campus and x2600 for Campus Police on the Main Campus.