
1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Sulfuric Acid
Synonyms	Sulphuric acid
Grade	ACS, HPLC, Pesticide, Anapremium, Dehydrous, LCMS, UPLC
Company	Anaqua Chemicals Supply 1510 Eldridge Parkway, Suite 110-268 Houston, TX 77077, USA
Telephone	(281) 668-0032
Fax	(281) 668-0033

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Formula	H ₂ SO ₄
CAS-No.	7664-93-9
Index-No.	016-020-00-8
Ec-No.	231-639-5
Concentration	> 95 %

3. HAZARDS IDENTIFICATION**GHS Classification**

Skin corrosion Category 1A

Classification according to EU Directives 67/548/EEC or 1999/45/ECCauses severe burns.

4. FIRST AID MEASURES

Inhalation	If breathed in, move to fresh air. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Rinse mouth with water. Consult a physician immediately.
Skin Contact	Immediately wash off with plenty of water for at least 15 minutes. Consult a physician.
Eye Contact	Rinse through with plenty of water for at least 15 minutes. Consult a physician.
Note to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	Wear self contained breathing apparatus for fighting if necessary. The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions	Do not let product enter drains
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling	Avoid inhalation of vapour or mist.
Storage	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational exposure controls

Engineering Measures	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
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Personal protective Equipment

Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
Hand protection	Wear appropriate protective gloves.
Eye protection	Tightly fitting safety glasses.
Skin and body protection	Protective clothes should be selected specifically for the work place according to concentration and quantity of the chemical handled.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks and at the end of working day.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	No data available
pH	1.2 at 5 g/l
Oxidizing properties	No data available
Melting point	3 °C
Boiling point	No data available
Flash point	Not applicable
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	1.33 hPa at 145.8 °C
Density	1.80 – 1.84 g/cm ³
Water solubility	Soluble
Relative vapour density	3,39 - (Air = 1.0)
Molecular weight	98.08

10. STABILITY AND REACTIVITY

Storage stability	Stable under recommended storage conditions. Reacts violently with water
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Bases, Halides, Organic materials, Carbides, fulminates, Nitrates, picrates, Cyanides, Chlorates, alkali halides, Zinc salts, permanganates, e.g. potassium permanganate, Hydrogen peroxide, Azides, Perchlorates., Nitromethane, phosphorous, Reacts violently with:, cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, Powdered metals
Hazardous decomposition products	Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity	LD50 Oral - rat - 2.140 mg/kg LC50 Inhalation - rat - 2 h - 510 mg/m ³
Skin irritation	Rabbit - Extremely corrosive and destructive to tissue.
Eye irritation	Rabbit - Severe eye irritation
Sensitization	No information available
Carcinogenicity	The International Agency for Research on Cancer (IARC) has determined that occupational exposure to strong-inorganic-acid mists containing sulfuric acid is carcinogenic to humans (group 1). IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Potential health effects	Inhalation May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion May be harmful if swallowed. Causes severe burns. Skin May be harmful if absorbed through skin. Causes severe skin burns. Eyes Causes severe eye burns
Symptoms of Exposure	Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Pulmonary edema. Effects may be delayed., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	RTECS: WS5600000

12. ECOLOGICAL INFORMATION

Persistence and degradability	No information available
Ecotoxicity	No information available
Toxicity to fish	LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h
Bioaccumulative potential	No information available

15. REGULATORY INFORMATION

Hazard statements

H314: Causes severe skin burns and eye damage

Precautionary statements

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

GHS-Labeling

Pictogram



Signal word *Danger*

Labeling according to EC Directive

Symbol(s): C-Corrosive

R-phrase(s): 35

Causes severe burns

S-phrase(s): 26-30-45

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Never add water to this product. In case of accident or if you feel unwell, seek medical advice immediately

16. OTHER INFORMATION

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