

Material Safety Data Sheet

1. Identification of the substance/preparation and of the company

Trade names

Stop solution I, Product No. STP-001

Manufacturer/Supplier

See below.

Telephone/Telefax

See below.

Emergency Telephone

+44 (0)28 95438774

2. Composition/Information on ingredients

Component	Information	Concentration (%)
Sulphuric acid	CAS #: 7664-93-9	<2 (v/v)
Water	CAS #: 7732-18-5	95-100 (v/v)
Other ingredients	Not Hazardous	<1 (w/v)

3. Hazards identification

Label precautionary statement

This product contains Sulphuric acid that is corrosive and even toxic at high concentrations. To our knowledge it is however in low enough concentration that would not require regulated labelling.

Hazard statements

Harmful if inhaled or swallowed. Causes respiratory tract, eye and skin irritation.

Precautionary measures

Handle carefully. Do not eat, drink or smoke when use this product. Do not breathe vapour or mist. Do not ingest. Avoid contact with eye, skin and clothing. Keep container tightly closed. Wash thoroughly after handling.

Routes of entry

Dermal contact. Eye contact. Inhalation. Ingestion.

Potential health effects

Not available

Component H₂SO₄ (pure):

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 burns.

Skin: May be harmful if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Emergency overview

In case of contact, rinse immediately with plenty of water and seek medical advice. Take off all contaminated clothing.

4. First-aid measures

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Eye contact

Flush thoroughly with water or physiological salt water. Remember to remove contact lenses. If irritation persists, seek medical advice.

Skin Contact

Remove contaminated clothing and wash affected skin with soap and water. Seek medical attention if irritation develops.

Inhalation

If inhaled, remove victim to fresh air. If difficult breathing, support breathing, give oxygen and obtain medical attention. If not breathing, give artificial respiration.

Ingestion

If ingested, do NOT induce vomiting. If conscious and alert, rinse mouth, drink plenty of water, and seek medical advice.

Information

Show this Safety Data Sheet to a physician or emergency ward. Note to physician: Treat symptomatically.

5. Fire-fighting measures**Flammability**

Non Flammable, Not combustible; aqueous solution.

Extinguishing media – suitable

Use suitable extinguishing media for surrounding fire.

Extinguishing media – NOT suitable

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Special risks in a fire situation

When heated to dryness the product may form hazardous decomposition products.

Protective equipment

When extinguishing fires use breathing apparatus with an independent source of air.

Additional information

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6. Accidental release measures**Personal precautions**

Wear suitable laboratory protective clothing. See protective equipment listed in section 8.

Methods for cleaning up/collecting

Absorb spilled liquid and place spillage in a disposal container. Wash the area of the spill thoroughly with water and soap.

7. Handling and storage**Safe handling**

Wear proper personal protective lab equipment (see section 8). Avoid skin contact. Wash thoroughly after handling.

Safe storage

At 4°C. Keep container tightly closed when not in use. Protected against light.

8. Exposure controls and personal protection**Engineering measures (prevention of worker exposure)**

Ensure there are eyewash stations and safety showers close to the work-stations. Avoid breathing vapours, and provide an exhaust ventilation if prolonged work periods.

Personal protective equipment

No special equipment is required in intended conditions of normal use.

Eye protection:

Wear safety goggles when risk of splashes.

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Skin protection: Use gloves of plastic or rubber when risk of contact.
Respiratory protection: None.

9. Physical and chemical properties

Appearance: Clear, colourless liquid
Odour: Odourless
Boiling point (°C): 100
Flash point (°C): -
Density (g/ml) at 20°C: About 1
Solubility in water: Complete
pH: < 1
Melting point: Not available
Freezing point: Not available

10. Stability and reactivity

Stability

This product is stable under normal storage and handling conditions

Conditions and materials to avoid

keep away from heat, strong alkalis, oxidizers.

Hazardous decomposition products

No Hazardous decomposition or polymerisation under normal conditions. When heated to dryness the product may form hazardous decomposition products.

11. Toxicology information

Toxicity

Slightly corrosive. May have toxic effects upon large exposure.

Component H₂SO₄ (pure):

For more information on this component, refer to the MSDS Sheets available from the manufacturer (Sigma-Aldrich, product No.: 84720).

No other known significant effects or critical hazards is expected from ingredients data.

Chronic effects

(carcinogenicity, teratogenicity, reproductive toxicity, mutagenesis)

12. Ecological information

No data available.

Component H₂SO₄ (pure): Toxicity to fish LC50 - Gambusia affinis (Mosquito fish) - 42 mg/l - 96 h

13. Disposal considerations

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Neutralize with NaOH solution before disposing off. Disposal should be according to local, state or national legislation.

14. Transport information

Classifications

Not controlled

Shipping

Contact your supplier / Room temperature

Hazards Class

N/A

UN Class

N/A

Packing Group

N/A

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the product

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No data available

Chemical Safety Assessment

No data available

16. Other information

Use

For research and analysis.

Restriction on application

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Requirements concerning special training

No special training is anticipated; however, the user should be well instructed for the execution of his task, have knowledge of this Safety Data Sheet and normal training in the use of personal protective equipment.

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