

Safety Data Sheet

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

- 1.1. Product name:** Stop Solution I
Product code: STP-001
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Relevant identified uses: For research use only, not for human or veterinary use.
- 1.3. Details of the supplier of the safety data sheet**
Company name/address: Biopanda Diagnostics
Unit 14 Carrowreagh Business Park
Carrowreagh Road, Dundonald
Belfast, BT16 1WF
UNITED KINGDOM
- Website:** www.biopanda-diagnostics.com
Email: info@biopanda-diagnostics.com
Telephone: +44 (0)2895 438774
- 1.4. Emergency telephone number**
These services are only available to health professionals
UK National Poisons Emergency Number: +44 (0)870 600 6266

2. Hazards identification

- 2.1. Classification of the substance or mixture**
2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]:
Skin Corrosion/Irritation, Category 1
- 2.2. Label elements:**
2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]:



Signal Word: Warning

Hazard Statement(s):

H315: Causes skin irritation.

Precaution Statement(s):

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves, eye protection and protective clothing.

Response Statement(s):

- P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 P332 + P313: If skin irritation occurs, get medical advice/attention.
 P362 + P364: Take off contaminated clothing and wash it before reuse.
 P305 + P351 + P338: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if present and safe to do so. Seek medical attention.

2.3. Other hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/Information on ingredients
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Component	CAS #	EC No.	GHS Classification	Concentration (%)
Sulphuric acid	7664-93-9	231-639-5	Skin Corr. 1A: H314	approx. 3% (v/v)
Water	7732-18-5	231-791-2		97% (v/v)

4. First-aid measures

4.1. Personal protection for first aid personnel

First aid personnel providing treatment to a patient exposed to this solution should observe the following precautions for their own personal protection:

- Avoid contact with contaminated skin, clothing and equipment by wearing protective gloves to prevent contact with skin.
- Wear safety goggles as a minimum level of eye protection to prevent splashes of solution entering the eye.
- Avoid inhalation of fumes or mist during rescue in a contaminated area by wearing suitable respiratory protection; suitable protection is an air supplied breathing apparatus or positive pressure self-contained breathing apparatus.

4.2. Description of first aid measures**Eye contact**

Hold eyelids apart and 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. Wash clothing before reuse.

Inhalation

Remove 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.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

5. Fire-fighting measures

5.1. Flammable properties and hazards

Non Flammable, not combustible; aqueous solution. Emits toxic and corrosive fumes under fire conditions.

5.2. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, water or dry chemical spray.

Unsuitable extinguishing media

A solid water stream may be inefficient.

5.3. Fire fighting instructions

As in any fire, wear self-contained breathing apparatus and full protective gear to prevent contact with skin and eyes.

6. Accidental release measures

6.1. Personal precautions

Wear suitable laboratory protective clothing. See protective equipment listed in section 8. Avoid breathing vapours and provide adequate ventilation.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3. Methods for containment and cleaning

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

7. Handling and storage

7.1. Precautions to be taken when handling

Wear proper personal protective lab equipment (see section 8). Avoid skin contact and breathing fume/gas/mist/vapour. Wash thoroughly after handling.

7.2. Precautions to be taken in storing

Keep container tightly closed and ensure it is labelled appropriately. Store in accordance with information listed on product insert or label.

8. Exposure controls and personal protection

8.1. Exposure parameters

CAS#	Partial chemical name	Britain EH40	France VL	Europe
		No data	TWA: 1.0 mg/m ³ STEL: 3.0 mg/m ³	No data
7664-93-9	Sulphuric acid	OSHA TWA	ACGIH TWA	Other limits
		PEL: 1 mg/m ³	TLV: 1 mg/m ³ STEL: 3 mg/m ³	No data

8.2. Exposure controls

8.2.1. Engineering controls

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2. Personal protective equipment

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

Eye protection: Safety glasses.

Skin protection: Compatible chemical-resistant gloves.

Other protective clothing: Lab coat.

Work practices: Facilities storing or utilising this material should be equipped with an eyewash facility. Wash after handling.

9. Physical and chemical properties

Physical state:	Liquid
Appearance:	Clear and colourless solution
Odour:	Odourless
Boiling point (°C):	No data
Flash point (°C):	No data
Density (g/ml) at 20°C:	Approx. 1.04
Solubility in water:	Complete
pH:	< 1
Melting point:	No data
Freezing point:	No data
Evaporation rate:	No data

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 oxidising/reducing agents, sodium, lithium.

Hazardous decomposition products

No hazardous decomposition or polymerisation under normal conditions. Hazardous decomposition under fire may produce carbon dioxide and hydrogen sulphide.

11. Toxicology information

Toxicity	Slightly corrosive. May have toxic effects upon large exposure. Component H ₂ SO ₄ (pure): For more information on this component, refer to the MSDS Sheets available from the manufacturer (Sigma-Aldrich, product No.: 84720).
Chronic effects (carcinogenicity, teratogenicity, reproductive toxicity, mutagenesis)	No other known significant effects or critical hazards is expected from ingredients data.

12. Ecological information

Avoid release into the environment.

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

13. Disposal considerations

Disposal should be according to local, state or national legislation.

14. Transport information

ICAO/IATA Shipping Name	Sulfuric acid [with 51% or less acid]
UN Number	2796
Packing Group	II
Hazard Class	8 - CORROSIVE

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008

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

No data available

Chemical Safety Assessment

No data available

16. Other information

Edition No.: 04

(Revision) date: 5th February 2018

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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