

SAFETY DATA SHEET

Section 1: Identification

Product Identifier: Pre-coated ELISA Kit Assay (Product code containing #RS symbols)

Relevant Identified Uses of Substance or Mixture and Uses Advised Against:

Recommended Use: For Research Use Only

Uses Advised against: No information

Company:

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Section 2: Hazard(s) Identification

2.1. Hazard Classification

Stop Solution – Contains Sulfuric Acid (H₂SO₄)

Skin Corrosion/Irritation- Category 2

Serious eye damage/eye irritation- Category 2A

OSHA/HCS Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Signal Word(s): WARNING

Hazard Statements:

H315: Causes skin irritation

H319: Causes serious eye irritation

Pictograms: Labeling according to Regulation (EC) No 1272/2008 [GHS/CLP]



Prevention: Wear protective gloves, protective clothing, eye protection, face protection. Wash exposed skin thoroughly after handling.

Response:

- **IF SWALLOWED:** rinse mouth. Do NOT induce vomiting.
- **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage: Not applicable

Disposal: Dispose of contents/container to comply with local, state and federal regulations.

Hazards not otherwise classified: None known

Section 3: Composition/ Information on Ingredients

Chemical Name	Concentration %	CAS#
Sulfuric Acid	1-3%	7664-93-9

Any percentage shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

Section 4: First-Aid Measures**4.1. Description of necessary first aid measures:**

- **Skin contact:** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- **Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- **Swallowing/Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

4.2. Potential Acute Health Effects

- **Skin contact:** Sulfuric Acid (Stop Solution): Causes serious eye damage (H319)
- **Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
- **Inhalation:** No known significant effects or critical hazards.
- **Swallowing/ingestion:** No known significant effects or critical hazards.

4.3. Over-Exposure Signs/Symptoms

No specific data.

4.4. Notes to Physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

4.5. Specific treatments

No specific treatment.

4.6. Protection of First-Aiders

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation

Section 5: Fire-Fighting Measures

5.1. Suitable extinguishing agents

Use an extinguishing agent suitable for the surrounding fire, such as water spray, carbon dioxide, dry chemical powder or appropriate foam. Prevent contact with skin and eyes.

5.2. Chemical Hazards from Fire

In a fire or if heated, a pressure increase will occur and the component containers may burst.

Section 6: Accidental Release Measures

6.1. Personal safety precautions

- **For Non-Emergency:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **For Emergency Responders:** If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non Emergency Personnel" above.
- **Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.2. Methods and Materials for Containment and Cleaning Up

- **Small Spill:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- **Large Spill:** Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage

with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7: Handling and Storage

7.1. Advice Handling

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Keep away from incompatible materials (see Section 10) and food and drink.

7.2. Storage conditions

May be stored for up to 6 months at 2° to 8°C from the date of shipment. Opened Microplate Wells or reagents may be store for up to 1 month at 2° to 8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge. Reconstituted standard can be stored at -80°C for up to 1 week. Note: the kit can be used within one year if the whole kit is stored at -20°C. Avoid repeated freeze-thaw cycles.

Section 8: Exposure Controls/Personal Protection

8.1. Permissible Exposure Limits (PELs)

Substance – Sulfuric Acid (H₂SO₄) (CAS# 7664-93-9)

- **Regulatory limits**
 - **OSHA PEL:** 1 mg/m³
 - **Ca/OSHA PEL:** 8-hour TWA (ST) STEL (C) Ceiling (0.1 mg/m³ (ST) 3mg/m³)
- **Recommended Limits:**
 - **NIOSH REL:** Up to 10-hour TWA (ST) STEL (C) Ceiling (1 mg/m³)
 - **ACGIH:** 8-hour TWA (ST) STEL (C) Ceiling (0.2 mg/m³ (Thor.)

8.2. Appropriate Engineering Controls

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

8.3. Protective equipment

Wear suitable protective clothing according to the concentration and amount of the substance at the workplace.

8.4. Special Precautions

Not for human or drug use. Not for household use.

Section 9: Physical and Chemical Properties

9.1. Information about the physical and chemical properties of the product

Sulfuric Acid (H₂SO₄)

- **Appearance:** Clear, colorless
- **Odor:** Odorless
- **Physical State:** Liquid
- **pH:** N/A
- **Boiling Point:** N/A
- **Melting Point:** N/A
- **Freezing Point:** N/A
- **Vapor Pressure:** N/A
- **Vapor Density:** N/A
- **Specific Gravity:** N/A
- **Evaporation Rate:** N/A
- **Solubility in Water:** N/A
- **Odor Threshold:** N/A
- **Coefficient of Water/Oil Distribution:** N/A

Section 10: Stability and Reactivity

10.1. Information about the stability and reactivity

- **Chemical stability:** Stable under recommended storage conditions.
- **Hazardous Reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11: Toxicological Information

11.1. Sulfuric Acid (H₂SO₄)

Acute toxicity:

- **LC₅₀ – Inhalation:** Rat- 347 ppm (exposure 1 hour).
- **LD₅₀ – Oral:** Rat- 2140 mg/kg

Irritation/Corrosion

- **Eyes – Severe irritant:** Rabbit - 250 Micrograms (exposure: 0.5 minutes 5 milligrams)

Sensitization:

- Not available.

Mutagenicity:

- Not available.

Classification:

- **Ingredient Name OSHA IARC NTP:** Sulfuric Acid + 1 Known to be a human carcinogen.
- **Reproductive Toxicity:** Not available.
- **Specific target organ toxicity (single exposure):** Not available.
- **Specific target organ toxicity (repeated exposure):** Not available.
- **Aspiration Hazard:** Not available.
- **Likely routes of exposure: Routes of entry anticipated:** Oral, Dermal, Inhalation.

Potential Acute Health Effects

- **Eye contact Sulfuric Acid (stop solution):** Risk of serious damage to eyes.
- **Inhalation:** No known significant effects or critical hazards.
- **Ingestion:** No known significant effects or critical hazards
- **Skin Contact Sulfuric Acid (stop solution):** Skin irritant or corrosion.

Section 12: Ecological Information

12.1. Ecotoxicity

No data available.

12.2. Mobility

No data available.

12.3. Biodegradation

No data available.

12.4. Bioaccumulation

No data available.

12.6. Other adverse effects

May be harmful to the environment, particularly aquatic organisms.

Section 13: Disposal Considerations

13.1. Waste disposal methods

Disposal should be in accordance with applicable national, state, and local laws and regulations. Local regulations may be more stringent than national or state requirements. Verify local and state regulations before discharging into public sewers or landfills. Do not dump into any body of water. Contact a licensed professional waste disposal service for appropriate methods of disposal.

Section 14: Transport Information

- **ADR/RID** Not dangerous goods.
- **IATA Class:** Not dangerous goods.
- **DOT Class:** Not dangerous goods.

Section 15: Regulatory Information

- **United States (TSCA):** All ingredients are on the inventory or exempt from listing.
- **Canada (DSL / NDSL):** All ingredients are on the inventory or exempt from listing.

- **Europe:** In accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015. In accordance with Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures (CLP)
- **SARA 302 Components Sulfuric Acid (Stop Solution):** CAS 7664-93-9
- **SARA 313 Components Sulfuric Acid (Stop Solution):** Concentration <3%
- **SARA 311/312 Hazards Sulfuric Acid (Stop Solution):** Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation
- **California Prop. 65 Components:** Sulfuric Acid (Stop Solution): WARNING: This product contains a chemical known to the State of California to cause cancer

Section 16: Other Information

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This company shall not be held liable for any damage resulting from handling or from contact with the above product. This material must only be handled by suitably qualified experienced scientists in appropriately equipped and authorized facilities. The above information is believed to be correct but does not purport to be all inclusive and should be used as a guide only for experienced personnel. Always consult your safety advisor and follow appropriate local and national safety legislation. The absence of warning must not, under any circumstance be taken to mean that no hazard exists.

Last reviewed: 07/2025

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

****End Of MSDS****