
Human LIF ELISA Kit

Catalog Number: E82-020

Safety Data Sheet

Last Revised: 08/18/2025

Identification

Usage

This product is for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

Supplier Identification

Company	Bethyl Laboratories, Inc. 25043 West FM 1097 Montgomery, TX 77356 USA
Telephone	1-800-338-9579
Emergency Phone	1-800-424-9300 (CHEMTREC)
Website	www.fortislife.com
Email	orders@fortislife.com

Hazards Identification

Hazardous Ingredients

- Stop Solution contains Sulfuric Acid.
- Assay Diluent A contains Sodium Azide.

OSHA/HCS Status

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

Classification of the Substance or Mixture

- Sulfuric Acid (Stop Solution): Skin Corrosion/Irritation 1A (H314).
- Sodium Azide (Assay Diluent A): Short-term (acute) aquatic hazard (Category 3), H402; Long-term (chronic) aquatic hazard (Category 3), H412.

GHS Label Elements

Hazard Pictograms



Signal Words

Warning

Warning

Warning

Hazard Statements

- Sulfuric Acid (Stop Solution): Causes skin irritation (H315).
- Sulfuric Acid (Stop Solution): Causes serious eye irritation (H319).
- Sodium Azide (Assay Diluent A): Harmful to aquatic life with long lasting effects (H412).

Response

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
- EYE CONTACT: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- SKIN CONTACT: Take off immediately all contaminated clothing. Rinse skin with water/shower.
- INHALATION: Move to an outside area and breath fresh air. Clear the nose by blowing.

Storage

Not applicable.

Disposal

Not applicable.

Hazards Not Otherwise Classified

None known.

Composition/Information on Ingredients

CAS Numbers/Other Identifiers

Ingredient Name	%	CAS Number
Sulfuric Acid	0.2	7664-93-9
Sodium Azide	<0.01	26628-22-8

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.

First-Aid Measures

Description of Necessary First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and clean shoes before reuse.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Potential Acute Health Effects

Eye Contact	Sulfuric Acid (Stop Solution): Causes serious eye damage (H319).
Skin Contact	Sulfuric Acid (Stop Solution): Causes skin irritation (H315).

Over-Exposure Signs/Symptoms

No specific data.

Notes to Physician

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

Specific Treatments

No specific treatment.

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.

Fire Fighting Measures

Extinguishing Media	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.
Chemical Hazards from Fire	In a fire or if heated, a pressure increase will occur and the component containers may burst.

Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel	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).
Protective Equipment	Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

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.

Storage and Handling

Storage	The entire kit may be stored at 2-8°C for 6 months from date of receipt. Avoid repeated freeze-thaw cycles for components that may be stored <-20°C after preparation.
Handling	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Exposure Controls/Personal Protection

Permissible Exposure Limits (PEL)

Substance	CAS No.	Regulatory Limits		Recommended Limits	
		OSHA PEL	Cal/OSHA PEL	NIOSH REL	ACGIH
		mg/m ³	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
Sodium Azide	26628-22-8	-	-	0.3 mg/m ³ (C; Skin)	0.29 mg/m ³ ©

Appropriate Engineering Controls

Showers, eyewash stations, and ventilation systems.

Protective Equipment

Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.

Special Precautions

Not for human, drug, or household use.

Physical and Chemical Properties

Appearance	• Stop Solution: Clear, colorless • Assay Diluent A: White, clear, or colorless
Boiling Point	• Stop Solution : N/A • Assay Diluent A: N/A
Coefficient Of Water/Oil Distribution	• Stop Solution: N/A • Assay Diluent A: N/A
Concentration	• Stop Solution N/A • Assay Diluent A: N/A
Evaporation Rate	• Stop Solution: N/A • Assay Diluent A: N/A
Format	• Stop Solution: Liquid; 8 ml • Assay Diluent A: Liquid; 30 ml

Freezing Point	• Stop Solution: N/A • Assay Diluent A: N/A
Melting Point	• Stop Solution: N/A • Assay Diluent A: N/A
Odor	• Stop Solution: Odorless • Assay Diluent A: Odorless
Odor Threshold	• Stop Solution: N/A • Assay Diluent A: N/A
pH	• Stop Solution: N/A • Assay Diluent A: N/A
Solubility In Water	• Stop Solution: N/A • Assay Diluent A: N/A
Specific Gravity	• Stop Solution: N/A • Assay Diluent A: N/A
Vapor Density	• Stop Solution: N/A • Assay Diluent A: N/A
Vapor Pressure	• Stop Solution: N/A • Assay Diluent A: N/A

Stability and Reactivity

Chemical Stability	Stable under normal handling procedures.
Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.

Toxicological Information

Acute Toxicity

Ingredient Name	Result	Species	Dose
Sulfuric Acid	LD50	Oral rat	347 ppm
		Inhalation rat	2140 mg/kg
Sodium Azide	LC50 Inhalation	Rat	37 mg/m ³
	LD50 Oral	Rabbit	10 mg/kg
	LD50 Dermal	Rabbit	20 mg/kg

Carcinogenicity	Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Sensitization	Not available.
Mutagenicity	Not available.
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): Causes skin irritation (H315).
Inhalation	Sulfuric Acid (Stop Solution): Causes skin irritation (H315). No known significant effects or critical hazards.
Ingestion	
Skin Contact	Sulfuric Acid (Stop Solution) : Causes skin irritation (H315).

Ecological Information

Ecotoxicity	No data available.
Persistence and Degradability	No data available.
Bioaccumulation/Accumulation	No data available.
Mobility in Environmental Media	No data available.
Other Hazardous Effects	May be harmful to the environment, particularly aquatic organisms.

Disposal Considerations

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.
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Transport Information

DOT	Not dangerous goods.
IATA	Not dangerous goods.
ADR	Not dangerous goods.

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 1272/2008 - classification, labelling and packaging of substances and mixtures (CLP).
SARA 302 Components	- Sulfuric Acid (Stop Solution): 7664-93-9 - Sodium Azide (Assay Diluent A): 26628-22-8

SARA 313 Components

- Sulfuric Acid (Stop Solution): Concentration <3%
- Sodium Azide (Assay Diluent A): Concentration <0.1%

SARA 311/312 Hazards

- Sulfuric Acid (Stop Solution): Health hazard - skin corrosion or irritation, serious eye damage or eye irritation.
- Sulfuric Acid (Stop Solution): WARNING: This product contains a chemical known to the State of California to cause cancer.
- Sodium Azide (Assay Diluent A): This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

California Proposition 65 Components

No known hazards.

Other Information

Disclaimer

The above information is believed to be correct but does not purport to be all-inclusive and is intended to be used only as a guide. Bethyl Laboratories, Inc. shall not be liable or responsible in any way for use of either this information or the material supplied. Disposal of hazardous material may be subject to federal, state, or local laws or regulations.