

Safety Data Sheet #: 20-EDLHUU-E01

Revision: 1.0

Product # 20-EDLHUU-E01

Product Name: Ultrasensitive Estradiol ELISA

Hazards classification information for the components below are included in this SDS:

Component Name	Page
Stop Solution	2

The remaining kit components are classified as not dangerous according to the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and CLP (EC) No 1272/2008.



Stop Solution Safety Data Sheet

Date of Issue: 05/23/2023

Version: 1.0

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Form: Mixture
Product Name and Codes: Stop Solution

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Uses: For in vitro laboratory use. For professional use only.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer's Name: ALPCO
Address: 26-G Keewaydin Drive Salem, NH, US, 03079
Information Phone Number: 800-592-5726 Ext. 232
Fax: 603-898-6854

1.4 Emergency Telephone Number

Emergency Phone: ChemTrec 24 hours: 800-424-9300 or 703-527-3887

SECTION 2: Hazard Identification

2.1 Classification of the Substance or Mixture

Classification

Skin Irritant – Category 2

Eye Irritant – Category 2

These classifications were evaluated according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and to Regulation (EC) No 1272/2008.

2.2 Label Elements

Pictograms



Signal Word

Warning

Hazardous Statements – Health

H314 – Causes severe skin burns and eye damage.

H315 - Causes skin irritation

H319 - Causes serious eye irritation

Precautionary Statements - General

P101 - If medical advice is needed, have product container or label at hand.

Precautionary Statements - Prevention

P280 - Wear protective gloves, protective clothing, eye protection/face protection.

Precautionary Statements - Response

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

P302 + P352 - IF ON SKIN: Wash with plenty of water.

Precautionary Statements - Storage

No precautionary statement available.

Precautionary Statements - Disposal

P501 - Dispose of contents/container in accordance with local/national/international regulations.

2.3 Other Hazards

No additional information available.

SECTION 3: Composition/information on Ingredients

3.1 Substances

Not Applicable

3.2 Mixtures

CAS	EC No	Chemical Name	% By Weight in Mixture	Classification according to (EC) No 1272/2008 (based on concentration present in mixture)	(EC) 1272/2008 Annex I Generic Cut-Off Limits	Specific Concentration Limit (SCL)
7664-93-98	231-639-5	Sulfuric Acid	< 5.0%	Skin Irritant Category 2 Eye Irritant Category 2	≥1%	No Data Available

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

First Aid Measures After Inhalation

Remove source of exposure or move person to fresh air and keep comfortable for breathing.

If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

Call a POISON CENTER/doctor if you feel unwell.

First Aid Measures After Skin Contact

Remove contaminated clothes and shoes.

Clean with water and soap. If possible, also wash with polyethylene glycol 400.

Cover wound with a sterile dressing.

If skin irritation continues, consult a doctor.

First Aid Measures After Eye Contact

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.

Call a doctor immediately.

First Aid Measure After Ingestion

Rinse mouth with water.

Spit liquid out again.

Drink lots of water and provide fresh air. Call a doctor immediately.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media

Small Fire: Dry chemical, foam, carbon dioxide, water-spray or alcohol-resistant foam. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Large Fire: Water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

Do not use straight stream of water.

5.2 Special Hazards Arising from the Substance or Mixture

Products of combustion may produce, but not limited to oxides of sulfur. Poisonous gases/vapors.

5.3 Advice for Fire Fighters

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Cool containers with flooding quantities of water until well after fire is out. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedure

Isolate hazard area and keep unauthorized personnel away. Stay uphill and/or upstream. Ventilate closed spaces before entering. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Recommended Equipment

Wear chemical protective clothing.

Personal Precautions

Avoid breathing vapor or mist. Avoid contact with skin, eye, or clothing.

6.2 Environmental Precautions

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

6.3 Methods and Materials for Containment and Cleaning up

Absorb Liquids in vermiculite, dry sand, earth, or similar inert material and deposit in sealed containers for disposal. Ventilate area after clean-up is complete.

6.4 Reference to Other Sections

For further information refer to section 8 "Exposure Controls/Personal Protection"

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

General

Wear appropriate personal protective equipment (PPE). Wash hands after use. Avoid breathing vapor or mist. Use good personal hygiene practices. Eating, drinking, and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas. All containers must be properly labelled. Eyewash stations and showers should be available in areas where this material is used and stored. Do not get in eyes, on skin, or on clothing.

7.2 Conditions for Safe Storage, Including Any Incompatibilities

Storage Room Requirements

Store in a cool, dry, well-ventilated area, away from sources of ignition and incompatibilities. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Indoor storage should meet OSHA standards and appropriate fire codes. Empty containers retain residue and may be dangerous.

7.3 Specific End Uses

For in vitro laboratory use. For professional use only

SECTION 8: Exposure Controls/personal Protection

8.1 Control Parameters

This product, as supplied, does not contain hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

8.2 Exposure Controls

Eye protection

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids.

Skin Protection

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene, or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory protection

Not required under normal use.

Appropriate Engineering Controls

Showers
Eyewash stations
Ventilation Systems

None of None of the chemicals in Section 3 are regulated under "ACGIH_carcinogen", "ACGIH_Notations", "ACGIH_TLV_Basis", "ACGIHsmg", "ACGIHsppm", "ACGIHtmg", "ACGIHtppm", "CAN_AL_Carcinogen", "CAN_AL_Notation", "CAN_ALsmg", "CAN_ALsppm", "CAN_ALtmg", "CAN_ALtppm", "CAN_ONsmg", "CAN_ONsppm", "CAN_ONtmg", "CAN_ONtppm", "CAN_QCVECDmg - CANADA_QUEBEC VALEUR D'EXPOSITION DE COURTE DURÉE_mg", "CAN_QCVECDppm - CANADA_QUEBEC VALEUR D'EXPOSITION DE COURTE DURÉE_ppm", "CAN_QCVEMPmg - CANADA_QUEBEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_mg", "CAN_QCVEMPppm - CANADA_QUEBEC VALEUR D'EXPOSITION MOYENNE PONDÉRÉE_ppm", "CANsmg", "CANsppm", "CANtmg", "CANtppm", "NIOSH_carcinogen", "nioshsmsg", "nioshsppm", "nioshtmg", "nioshtppm", "OSHA_SkinDesignation", "OSHA_Tables_Z1_Z2_Z3", "OSHA_Carcinogen - OSHA Carcinogen", "OSHAsmg", "OSHA_sppm", "OSHA_tmg", "OSHA_tppm"

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Density	1 g/mL
Specific Gravity	1
% VOC	No Data Available.
Density VOC	No Data Available.
% HAPS	No Data Available.
Density HAPS	No Data Available.
% VHAPS	No Data Available.
Density VHAPS	No Data Available.
% Solids By Weight	No Data Available.

Appearance	Colorless Liquid
Odor Threshold	N/A
Odor Description	Odorless
pH	1.0
Water Solubility	Miscible
Flammability	No Data Available.
Flash Point Symbol	No Data Available.
Flash Point	No Data Available.
Viscosity	No Data Available.
Lower Explosion Level	No Data Available.
Upper Explosion Level	No Data Available.
Vapor Pressure	No Data Available.
Vapor Density	No Data Available.
Freezing Point	No Data Available.
Melting Point	No Data Available.
Low Boiling Point	No Data Available.
High Boiling Point	No Data Available.
Auto Ignition Temp	No Data Available.
Decomposition Pt	No Data Available.
Evaporation Rate	No Data Available.
Coefficient Water/Oil	No Data Available.

9.2 Other Information

No additional information available.

SECTION 10: Stability and Reactivity

10.1 Reactivity

No dangerous reactions known under normal conditions of use.

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of Hazardous Reactions

Hazardous Reactions/Polymerization

Corrosive to metals

10.4 Conditions to Avoid

Heat. Incompatible materials.

10.5 Incompatible Materials

Strong bases and metals.

10.6 Hazardous Decomposition Products

None if stored properly.

SECTION 11: Toxicological Information

11.1 Information on Hazard Classes

Acute Toxicity

May be harmful in contact with skin

May be harmful if swallowed

LD/LC 50 values

For an oral exposure to this mixture is 2140 mg/kg body weight (rat)

For an inhalation (aerosol) exposure to this mixture is 0.375 mg/l (rat)

Although the LC50 values from the inhalation toxicity study theoretically trigger Classification with 'Toxic by inhalation', classification is not proposed. The effects of sulfuric acid following inhalation are entirely due to local irritation of the respiratory tract: there is no evidence for the systemic toxicity of sulfuric acid in any study as effects are limited to the site of contact. Classification for acute inhalation toxicity is not considered to be appropriate.

Aspiration Hazard

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

Reproductive Toxicity

Based on available data, the classification criteria are not met.

Respiratory/Skin Sensitization

May cause irritation to the skin and respiratory tract.

Serious Eye Damage/Irritation

May cause irritation to the eyes.

Skin Corrosion/Irritation

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure

Based on available data, the classification criteria are not met.

11.2 Information on Other Hazards

No additional information available.

SECTION 12: Ecological Information

12.1 Toxicity

Aquatic toxicity:

7664-93-9 sulfuric acid

EC50/48h (static) > 100 mg/L (Daphnia magna) (OECD Guideline 202)

LC50/72h (static) > 100 mg/L (Desmodesmus subspicatus) (OECD Guideline 201)

LC50/96h (static) > 16 < 28 mg/L (Lepomis macrochirus)

12.2 Persistence and Degradability

No data available.

12.3 Bioaccumulative Potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of PBT and vPvB Assessment

No data available.

12.6 Endocrine Disrupting Properties

No data available.

12.7 Other Adverse Effects

No data available.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

It is the responsibility of the user of the product to determine at the time of disposal whether the product meets local criteria for hazardous waste. Waste management should be in full compliance with national, state and local laws. Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes.

SECTION 14: Transportation Information

	U.S. DOT Information	IMDG Information	IATA Information	Canada TDG Information	ADR	ADN	RID
14.1 UN Number:	Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated	Not Regulated
14.2 Proper shipping name:	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.3 Hazard Class:	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.4 Packing Group:	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.5 Environmental Hazards	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.6 Special Precautions for User:	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
14.7 Maritime Transport in Bulk According to IMO Instruments:	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

SECTION 15: Regulatory Information

15.1 Safety, Health, and Environmental Regulations/legislation Specific for the Substance or Mixture

CAS	Chemical Name	% By Weight	Regulation List
7664-93-98	Sulfuric Acid	<5.0%	DSL, SARA (low quantity per kit)

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

US State Regulation

California Proposition 65 – This product does not contain any substances known to the State of California to cause cancer, developmental and/or reproductive harm.

SECTION 16: Other Information

Glossary

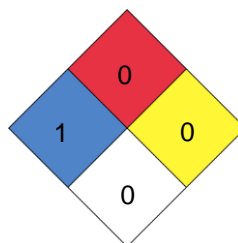
ACGIH - American Conference of Governmental Industrial Hygienists; CAS - Chemical Abstracts Service ; Chemtrec - Chemical Transportation Emergency Center; DSL - Domestic Substances List; ESL - Effects screening levels; GHS - "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations; HMIS - Hazardous Material Information Service; IATA - Dangerous Goods Regulations (DGR) for the air transport (IATA); IMDG - International Maritime Dangerous Goods Code; LC - Lethal Concentration; LD - Lethal Dose; NFPA - National Fire Protection Association; OEL - Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL - Permissible Exposure Limit; SARA 313 - Superfund Amendments and Reauthorization Act, Section 313; SCBA - Self Contained Breathing Apparatus; ppm - parts per million; STEL - Short-term exposure limit; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act Public Law 94-469; TWA - Time-weighted average; US DOT- US Department of Transportation.

HMIS

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Personal Protection
(*) - Chronic effects

NFPA



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks

Version 1.0:

Revision Date: November 28, 2022

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