

Safety Data Sheet

LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: HLL Supplement

Product Number: LS-1001

Company Address: Lifeline Cell Technology
8415 Progress Drive, Suite T
Frederick, MD 21701

Technical Phone: (877) 845-7787
Fax: (443) 393-0393
Emergency Phone: (877) 845-7787

Product use: Cell/Tissue culture

SECTION 2 – HAZARDS IDENTIFICATION

Hazardous Components: Not a hazardous substance or mixture.

Hazards not covered by GHS: This product contains raw material of human source. Each batch of Human Serum used in this medium was tested and found to be negative for Hepatitis B, Hepatitis C, HIV-1 and HIV-2 by FDA approved methods. These tests cannot offer complete assurance of the absence of these or other infectious agents.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Principal Components:	Human Serum Albumin	CAS number:	125-04-2
	Lecithin	CAS number:	8002-43-5
	Linoleic Acid	CAS number:	60-33-3
	Ethanol	CAS number:	64-17-5
	Water	CAS number:	7732-18-5

Composition: The item formulation is a mixture composed primarily of Human Serum Albumin, water and Ethanol (~ 1%). All other components are less than 1% concentration.

Synonym: N/A

Hazardous Components:	Classification	Concentration
Ethanol CAS number 64-17-5 EC number 200-578-6 Index number 603-002-00-5	Flamable liquid 2; H255	~ 1%

SECTION 4 – FIRST AID MEASURES

Potential Health Effects:

Eye: May cause irritation of the eye.

Skin: May cause skin irritation.

Ingestion: May be harmful if swallowed.

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Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

First aid measures:

Oral Exposure: If swallowed, rinse out mouth with water provided person is conscious. Call a physician.

Dermal Exposure: In case of contact with skin, flush with copious amounts of water for at least 15 minutes. Should irritation occur, call a physician.

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

SECTION 5 – FIRE FIGHTING MEASURES

General Fire hazard: Product does not present any special fire hazard. Carbon oxides may be released in a fire.

Flash point: N/A

Extinguishing media: Use media appropriate for the material that is burning.

Advice for Firefighters: Wear self-contained breathing apparatus if necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Refer to section 8 for appropriate personal protection.

Environmental Precautions: No special environmental precautions are required.

Methods for Clean Up: Absorb liquid with disposable laboratory towel or other absorbent material and then place in a closed container for disposal. Wash spill site after liquid cleanup is complete with cleansers appropriate for the spill site surface material.

SECTION 7 – HANDLING AND STORAGE

Precautions for Handling: Refer to section 8 for appropriate personal protection. Avoid contact with eyes, skin or clothing. Product may cause allergic reaction in sensitized individuals. Do not pipet by mouth.

Storage: Keep container tightly closed. Store at -20°C or below. Protect from light.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits:

	CAS number	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH (TLV)
		Upper respiratory tract irritation		
		Confirmed animal carcinogen with unknown relevance to humans		
TWA	1,000 ppm		USA, Occupational Exposure Limits	
	1,900 mg/m ³		OSHA – Table Z-1 Limits for Air Contaminants	
	(value in mg/m ³ is approximate)			
TWA	1,000 ppm		USA, NIOSH Recommended Exposure Limits	
	1,900 mg/m ³			

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Engineering Controls: Eye wash stations are required.

Ventilation: Area ventilation is generally adequate.

Personal Protective Equipment:

Respiratory: Respirator is not required.
Hand: Chemical resistant gloves required.
Eye: Safety glasses or goggles required.
Clothing: Laboratory coat recommended.

General Hygiene Measures: Wash hands thoroughly after handling.

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance: Frozen, hazy, yellow liquid above ~0° C.

Upper/lower flammability or Explosive limits: No data available

Odor: No data available

Vapor pressure: No data available

Odor threshold: No data available

Vapor density: No data available

pH: No data available

Relative density: No data available

Freezing point: No data available

Solubility: Completely soluble in water

Boiling point: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability: Not flammable

Upper/lower flammability or explosive limits: No data available

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Viscosity: No data available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Stable under recommended storage and usage conditions.

Possible hazardous reactions: No data available

Conditions to be avoided: No data available

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon oxides may be released in a fire.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely routes of exposure: Ingestion, skin, eye contact.

Acute toxicity

Oral LD50: Component: Ethanol LD50 (Rat) Dose: 5,000 mg/kg

Inhalation LC50: Component: Ethanol LC50 (Mouse) Dose: 39 g/m³ Exposure time: 4 hrs

Dermal Irritant: Component: Ethanol Rabbit Mild irritant

Eye Irritant: Component: Ethanol Rabbit Moderate irritant

(Refer to Ethanol, CAS number 64-17-5, for above toxicological data)

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Chronic toxicity: No data available

Skin corrosion: No data available

Eye damage: No data available

Sensitization (Respiration or Skin): No data available

Germ cell mutagenicity: No data available

Carcinogenicity: Some glucocorticoid show carcinogenic or teratogenic activity.

Reproductive toxicity: No data available

Teratogenicity: Some glucocorticoid show carcinogenic or teratogenic activity

Carcinogenicity

NTP: not listed

IARC: not listed

OSHA: not listed

SECTION 12 – ECOLOGICAL INFORMATION

Product Information:

Ecotoxicity: No data available

Persistence/Degradability: No data available

Bioaccumulation Potential: No data available

Mobility in Soil: No data available. Expected to be mobile because it is an aqueous solution.

Component Information:

Ethanol CAS number **64-17-5**

Toxicity to fish: Acute LC50
Species: *Leuciscus idus* (Golden orfe)
Dose: 8,140 mg/L
Exposure time: 48 hrs.

Toxicity to daphnia and other aquatic invertebrates:

Immobilization EC50
Species: *Daphnia magna* (water flea)
Dose: > 10,000 mg/L
Exposure time: 24 hrs.

Toxicity to algae: Cell multiplication inhibition test ErC 10
Species: *Desmodesmus subspicatus* (green algae)
Dose: 5,000 mg/L
Exposure time: 8 days

Toxicity to bacteria:

Cell multiplication inhibition test EC10
Species: *Pseudomonas putida*
Dose: 6,500 mg/L
Exposure time: 16 hrs.

Additional ecological information: No data available

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Component Information:

Ethanol CAS number 64-17-5

Biodegradability: Zahn-Wellens Test
Exposure time: 28 days
Result: Biologically well degradable
>99%
Method: OECD Test Guideline 302 B

Closed Bottle test
Exposure time: 5 days
Result: Readily biodegradable
74%
Method: OECD Test Guideline 301 D

SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA hazardous waste code: Not listed as a hazardous waste.
Appropriate disposal containers: No specific restrictions on waste container type.
Appropriate Method of Disposal: Clean up and dispose of waste in accordance with all federal, state and local environmental regulations.

SECTION 14 – TRANSPORT INFORMATION

UN number: N/A
Proper Shipping Name: None.
DOT: Non-hazardous for transport.
IMDG: Non-hazardous for transport.
IATA: Non-hazardous for transport.

SECTION 15 – REGULATORY INFORMATION

SARA 302 Components: No chemicals in this product are subject to SARA Title III, Section 302.
SARA 313 Components: This product does not contain chemical components with known CAS numbers that exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.
SARA 311/312: Chronic health hazard

Massachusetts Right to Know Components: No components are subject to Massachusetts Right to Know Act.

Pennsylvania Right to Know Components:

Ethanol	CAS number:	64-17-5
Human Serum Albumin	CAS number:	125-04-2
Water	CAS number:	7732-18-5

New Jersey Right to Know Components:

Ethanol	CAS number:	64-17-5
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California Prop. 65 Components: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

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SECTION 16 – OTHER INFORMATION

Preparation information:

Prepared by: Quality Department
Date Prepared: January 20, 2015
Replaced Version date: July 30, 2012

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