# SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	LifeFactors <sup>®</sup> DermaLife <sup>®</sup> K
Product Number:	LS-1030
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

#### **Principal Components:**

LifeFactors<sup>®</sup> DermaLife<sup>®</sup> K Kit, LS-1030:

L-Glutamine (200 mM), 15 mL, LS-1031 Extract P, 2 mL, LS-1037 rhTGF- $\alpha$ , 0.5 mL, LS-1034 rh Insulin, 0.5 mL, LS-1004 Epinephrine, 0.5 mL, LS-1032 Apo Transferrin, 0.5 ml, LS-1033 Hydrocortisone hemisuccinate, 0.5 mL, LS-1039

Please refer to Safety Data Sheets (SDS) for the above listed components on the following pages.

# SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	L-Glutamine [200 mM]
Product Number:	LS-1031
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# **SECTION 2 – HAZARDS IDENTIFICATION**

Hazardous Components: Not a hazardous substance or mixture

# SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Principal Components:	L-Glutamine	CAS number:	58-85-9
	Water	CAS number:	7732-18-5

**Composition**: The item formulation is a solution of L-Glutamine and water. The solution contains 1-5% L-Glutamine in water.

Synonym: Glutamine, Levoglutamine, L-(+) Glutamine, Cebrogen, Glavamin, Stimulina

# **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.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.

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:** Not listed on the OSHA Occupational Chemical database.

**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, liquid with white precipitate above  $\sim 0^{\circ}$  C, clear liquid above  $\sim 20^{\circ}$  C.

Upper/lower flammability or Explosive limits:No data availableOdor:OdorlessVapor pressure:No data availableOdor threshold:No data available

Vapor density:	No data available	
pH:	No data available	
<b>Relative density:</b>	No data available	
Freezing point:	~0° C	
Solubility:	Completely soluble in water	
<b>Boiling point:</b>	~100° C	
Flash point:	No data available	
<b>Evaporation rate:</b>	No data available	
Flammability:	Not flammable	
Upper/lower flammability or explosive limits: No data available		No data available
<b>Relative density:</b>	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 availableChemical stability:Stable under recommended storage and usage conditions.Possible hazardous reactions:No data availableConditions to be avoided:No data availableIncompatible materials:Strong oxidizing agentsHazardous decompositionproducts:Carbon oxides may be released in a fire.

# SECTION 11 – TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Oral LD50: Inhalation LC50: Dermal LD50: Other:	No data available No data available No data available No data available	
Chronic toxicity:	No data available	
Skin corrosion: Eye damage:	No data available	
Sensitization (Respiration or Skin): No data available		
Germ cell mutagenicity: No data available		
Carcinogenicity:	No data available	
<b>Reproductive toxicity:</b> No data available		
Teratogeniticity:	No data available	

NTP:	not listed
IARC:	not listed
<b>OSHA:</b>	not listed

Ecotoxicity:No data availablePersistence/Degradability:No data availableBioaccumulation Potential:No data availableMobility in Soil:No data available.

# SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA hazardous waste code: Appropriate disposal containers: Appropriate Method of Disposal: local environmental regulations.

Not listed as a hazardous waste.No specific restrictions on waste container type.Clean up and dispose of waste in accordance with all federal, state and

# 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 numbersthat exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.SARA 311/312:Not a hazardous substance or mixture

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

#### Pennsylvania Right to Know Components:

L-Glutamine	-	CAS number:	58-85-9
Water		CAS number:	7732-18-5

New Jersey Right to Know Components: No components are subject to New Jersey Right to Know Act.

**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.

# **SECTION 16 – OTHER INFORMATION**

#### **Preparation information**:

Prepared by:	Quality Department
Date Prepared:	January 23, 2015
<b>Replaced Version date:</b>	July 30, 2012

**Disclaimer:** This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Lifeline Cell Technology. The data on this sheet relate only to the specific materials designated herein and shall only be used as a guide. Lifeline Cell Technology assumes no legal responsibility for the use or reliance upon these data.

LifeFactors<sup>®</sup> DermaLife<sup>®</sup> K, LS-1030

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	Extract-P
Product Number:	LS-1037
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# **SECTION 2 – HAZARDS IDENTIFICATION**

Hazardous Components: Not a hazardous substance or mixture

# SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

#### Principal Components:

Water

CAS number: 7732-18-5

**Composition**: The item formulation is an extraction of bovine brain tissue (pituitary glands) with salts and water. With the exception of purified water, all ingredients are in concentrations of less than 1%.

**Synonym:** Bovine Pituitary Extract, BPE

# **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.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.

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:** Not listed on the OSHA Occupational Chemical database.

**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, red to dark brown, liquid above  $\sim 0^{\circ}$  C.

Upper/lower flammability or Explosive limits: No data available		No data available
Odor:	Slight musky or earthy odor	
Vapor pressure:	No data available	
Odor threshold:	No data available	

Vapor density:	No data available	
pH:	Neutral	
<b>Relative density:</b>	No data available	
Freezing point:	~0° C	
Solubility:	Completely soluble in water	
<b>Boiling point:</b>	~100° C	
Flash point:	No data available	
<b>Evaporation rate:</b>	No data available	
Flammability:	Not flammable	
Upper/lower flammability or explosive limits:		No data available
<b>Relative density:</b>	~1 at 20° C	
Partition coefficient	nt: n-octanol/water:	No data available
Auto-ignition temperature: No data available		
Viscosity:	No data available	

# SECTION 10 – STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under recommended storage and usage conditions.Possible hazardous reactions:No data availableConditions to be avoided:No data availableIncompatible materials:Strong oxidizing agentsHazardous decompositionproducts:Carbon oxides may be released in a fire.

# SECTION 11 – TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Oral LD50: Inhalation LC50: Dermal LD50: Other:	No data available No data available No data available No data available	
Chronic toxicity:	No data available	
Skin corrosion: Eye damage:	No data available	
Sensitization (Respiration or Skin): No data available		
Germ cell mutage	nicity: No data available	
<b>Carcinogenicity:</b>	No data available	
Reproductive toxi	city: No data available	
Teratogeniticity:	No data available	

NTP:	not listed
IARC:	not listed
<b>OSHA:</b>	not listed

Ecotoxicity:No data availablePersistence/Degradability:No data availableBioaccumulation Potential:No data availableMobility in Soil:No data available.Expected to be mobile because it is an aqueous solution.

# SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA hazardous waste code:IAppropriate disposal containers:IAppropriate Method of Disposal:Ilocal environmental regulations.I

Not listed as a hazardous waste. No specific restrictions on waste container type. Clean up and dispose of waste in accordance with all federal, state and

# SECTION 14 – TRANSPORT INFORMATION

UN number: Proper Shipping Name:	N/A 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 numbersthat exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.SARA 311/312:Not a hazardous substance or mixture

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

Pennsylvania Right to Know Components:

Water

CAS number: 7732-18-5

New Jersey Right to Know Components: No components are subject to New Jersey Right to Know Act.

**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.

# **SECTION 16 – OTHER INFORMATION**

#### **Preparation information**:

Prepared by:	Quality Department
Date Prepared:	February 12, 2015
<b>Replaced Version date:</b>	July 30, 2012

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### SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	rh TGF-α
Product Number:	LS-1034
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# **SECTION 2 – HAZARDS IDENTIFICATION**

Hazardous Components: Not a hazardous substance or mixture

# SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Principal Components:	rh TGF-α	CAS number:	105186-99-0
	Water	CAS number:	7732-18-5

**Composition**: The item formulation is a mixture of recombinant human TGF- $\alpha$ , water and stabilizing agents. With the exception of purified water, all ingredients are in concentrations of less than 1%.

**Synonym:** Transforming Growth Factor- α, TGF-alpha

# **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.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.

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:** Not listed on the OSHA Occupational Chemical database.

**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, clear liquid above ~0° C.

Upper/lower flammability or Explosive limits:No data availableOdor:OdorlessVapor pressure:No data availableOdor threshold:No data available

Vapor density:	No data available	
pH:	Neutral	
<b>Relative density:</b>	No data available	
Freezing point:	~0° C	
Solubility:	Completely soluble in water	
<b>Boiling point:</b>	~100° C	
Flash point:	No data available	
<b>Evaporation rate:</b>	No data available	
Flammability:	Not flammable	
Upper/lower flammability or explosive limits: No data availab		No data available
<b>Relative density:</b>	~1 at 20° C	
Partition coefficient: n-octanol/water: No data available		No data available
Auto-ignition temperature: No data available		
Viscosity:	No data available	

# SECTION 10 – STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under recommended storage and usage conditions.Possible hazardous reactions:No data availableConditions to be avoided:No data availableIncompatible materials:Strong oxidizing agentsHazardous decompositionproducts:Carbon oxides may be released in a fire.

# SECTION 11 – TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Oral LD50: Inhalation LC50: Dermal LD50: Other:	No data available No data available No data available No data available	
Chronic toxicity:	No data available	
Skin corrosion: Eye damage:	No data available	
Sensitization (Respiration or Skin): No data available		
Germ cell mutage	nicity: No data available	
Carcinogenicity:	No data available	
<b>Reproductive toxi</b>	city: No data available	
Teratogeniticity:	No data available	

NTP:	not listed
IARC:	not listed
<b>OSHA:</b>	not listed

Ecotoxicity:No data availablePersistence/Degradability:No data availableBioaccumulation Potential:No data availableMobility in Soil:No data available.Expected to be mobile because it is an aqueous solution.

# SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA hazardous waste code:NAppropriate disposal containers:NAppropriate Method of Disposal:Clocal environmental regulations.C

Not listed as a hazardous waste. No specific restrictions on waste container type. Clean up and dispose of waste in accordance with all federal, state and

# 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 numbersthat exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.SARA 311/312:Not a hazardous substance or mixture

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

Pennsylvania Right to Know Components:

Water

CAS number: 7732-18-5

New Jersey Right to Know Components: No components are subject to New Jersey Right to Know Act.

**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.

# **SECTION 16 – OTHER INFORMATION**

#### **Preparation information**:

Prepared by:	Quality Department
Date Prepared:	February 12, 2015
<b>Replaced Version date:</b>	July 30, 2012

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LifeFactors<sup>®</sup> DermaLife<sup>®</sup> K, LS-1030

# SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	rh Insulin
Product Number:	LS-1004
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# **SECTION 2 – HAZARDS IDENTIFICATION**

Hazardous Components: Not a hazardous substance or mixture

# SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Principal Components:	recombinant human Insulin	CAS number:	11061-68-0
	Water	CAS number:	7732-18-5

**Composition**: The item formulation is a mixture of recombinant human Insulin, water and stabilizing agents. With the exception of purified water, all ingredients are in concentrations of less than 1%.

Synonym:

# **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.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.

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:** Not listed on the OSHA Occupational Chemical database.

**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, clear liquid above ~0° C.

Upper/lower flammability or Explosive limits:No data availableOdor:OdorlessVapor pressure:No data availableOdor threshold:No data available

Vapor density:	No data available	
pH:	No data available	
<b>Relative density:</b>	No data available	
Freezing point:	~0° C	
Solubility:	Completely soluble in water	
<b>Boiling point:</b>	~100° C	
Flash point:	No data available	
<b>Evaporation rate:</b>	No data available	
Flammability:	Not flammable	
Upper/lower flammability or explosive limits: No data available		No data available
<b>Relative density:</b>	~1 at 20° C	
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 availableChemical stability:Stable under recommended storage and usage conditions.Possible hazardous reactions:No data availableConditions to be avoided:No data availableIncompatible materials:Strong oxidizing agentsHazardous decompositionproducts:Carbon oxides may be released in a fire.

# SECTION 11 – TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Oral LD50:	No data available	
Inhalation LC50:	No data available	
Dermal LD50:	No data available	
Other:	No data available	
Chronic toxicity:	No data available	
Skin corrosion: Eve damage:		
Eye damage:No data availableSensitization (Respiration or Skin):No data available		
Germ cell mutager	nicity: No data available	
Carcinogenicity:	No data available	
Reproductive toxi	city: No data available	
Teratogeniticity:	No data available	

NTP:	not listed
IARC:	not listed
<b>OSHA:</b>	not listed

Ecotoxicity:No data availablePersistence/Degradability:No data availableBioaccumulation Potential:No data availableMobility in Soil:No data available.Expected to be mobile because it is an aqueous solution.

# SECTION 13 – DISPOSAL CONSIDERATIONS

**RCRA hazardous waste code: Appropriate disposal containers: Appropriate Method of Disposal**: local environmental regulations.

Not listed as a hazardous waste. No specific restrictions on waste container type. Clean up and dispose of waste in accordance with all federal, state and

# 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 numbersthat exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.SARA 311/312:Not a hazardous substance or mixture

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

Pennsylvania Right to Know Components:WaterCAS number:7732-18-5

New Jersey Right to Know Components: No components are subject to New Jersey Right to Know Act.

**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.

# **SECTION 16 – OTHER INFORMATION**

#### **Preparation information**:

Prepared by:	Quality Department
Date Prepared:	January 22, 2015
<b>Replaced Version date:</b>	July 30, 2012

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LifeFactors<sup>®</sup> DermaLife<sup>®</sup> K, LS-1030

# SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	(-)Epinephrine (+)Bitartrate
Product Number:	LS-1032
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# SECTION 2 – HAZARDS IDENTIFICATION

Hazardous Components: Not a hazardous substance or mixture

# SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Principal Components:	(-)Epinephrine (+)Bitartrate	CAS number:	51-42-3
	Water	CAS number:	7732-18-5

**Composition**: The item formulation is a mixture of Heparin Sulfate sodium salt and water. With the exception of purified water, all ingredients are in concentrations of less than 1%.

**Synonym:** L-Adrenaline (+)-bitartrate salt, 3,4-Dihydroxy-α-(methylamino-methyl)benzyl alcohol Dhydrogen bitartrate salt, L-Adrenaline D-hydrogentartrate, L-Epinephrine D-hydrogentartrate

# **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.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.

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:** Not listed on the OSHA Occupational Chemical database.

**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, clear liquid above  $\sim 0^{\circ}$  C. Color change to tan or brown with degradation.

Upper/lower flammability or Explosive limits:No data availableOdor:OdorlessNo data availableVapor pressure:No data availableNo data availableOdor threshold:No data availableNo data available

Vapor density:	No data available	
pH:	Neutral	
<b>Relative density:</b>	No data available	
Freezing point:	~0° C	
Solubility:	Completely soluble in water	
<b>Boiling point:</b>	~100° C	
Flash point:	No data available	
<b>Evaporation rate:</b>	No data available	
Flammability:	Not flammable	
<b>Upper/lower flammability or explosive limits:</b> No		No data available
<b>Relative density:</b>	~1 at 20° C	
Partition coefficient: n-octanol/water: No data available		No data available
Auto-ignition temperature: No data available		
Viscosity:	No data available	

# SECTION 10 – STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under recommended storage and usage conditions.Possible hazardous reactions:No data availableConditions to be avoided:No data availableIncompatible materials:Strong oxidizing agentsHazardous decompositionproducts:Carbon oxides may be released in a fire.

# SECTION 11 – TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Oral LD50: Inhalation LC50: Dermal LD50: Other:	No data available No data available No data available No data available	
Chronic toxicity:	No data available	
Skin corrosion: Eye damage: Sonsitization (Boss	No data available	
Sensitization (Respiration or Skin): No data available Germ cell mutagenicity: No data available		
Carcinogenicity:	No data available city: No data available	

NTP:	not listed
IARC:	not listed
<b>OSHA:</b>	not listed

Ecotoxicity:No data availablePersistence/Degradability:No data availableBioaccumulation Potential:No data availableMobility in Soil:No data available.Expected to be mobile because it is an aqueous solution.

# SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA hazardous waste code:1Appropriate disposal containers:1Appropriate Method of Disposal:1local environmental regulations.1

Not listed as a hazardous waste. No specific restrictions on waste container type. Clean up and dispose of waste in accordance with all federal, state and

# 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 numbersthat exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.SARA 311/312:Not a hazardous substance or mixture

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

Pennsylvania Right to Know Components:

Water

CAS number: 7732-18-5

New Jersey Right to Know Components: No components are subject to New Jersey Right to Know Act.

**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.

# **SECTION 16 – OTHER INFORMATION**

#### **Preparation information**:

Prepared by:	Quality Department
Date Prepared:	February 12, 2015
<b>Replaced Version date:</b>	July 30, 2012

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LifeFactors<sup>®</sup> DermaLife<sup>®</sup> K, LS-1030

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	Apo-Transferrin
Product Number:	LS-1033
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# **SECTION 2 – HAZARDS IDENTIFICATION**

Hazardous Components: Not a hazardous substance or mixture

# SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Principal Components:	Apo-Transferrin	CAS number:	11096-37-0
	Water	CAS number:	7732-18-5

**Composition**: The item formulation is a mixture of apo-Transferrin and water. With the exception of purified water, all ingredients are in concentrations of less than 1%.

Synonym: Siderophilin

# **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.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.

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:** Not listed on the OSHA Occupational Chemical database.

**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, clear liquid above ~0° C.

Upper/lower flammability or Explosive limits:No data availableOdor:OdorlessVapor pressure:No data availableOdor threshold:No data available

Vapor density:	No data available	
pH:	Neutral	
<b>Relative density:</b>	No data available	
Freezing point:	~0° C	
Solubility:	Completely soluble in water	
<b>Boiling point:</b>	~100° C	
Flash point:	No data available	
<b>Evaporation rate:</b>	No data available	
Flammability:	Not flammable	
Upper/lower flammability or explosive limits:		No data available
<b>Relative density:</b>	~1 at 20° C	
Partition coefficient	nt: n-octanol/water:	No data available
Auto-ignition temperature: No data available		
Viscosity:	No data available	

# SECTION 10 – STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under recommended storage and usage conditions.Possible hazardous reactions:No data availableConditions to be avoided:No data availableIncompatible materials:Strong oxidizing agentsHazardous decompositionproducts:Carbon oxides may be released in a fire.

# SECTION 11 – TOXICOLOGICAL INFORMATION

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

#### Acute toxicity

Oral LD50: Inhalation LC50: Dermal LD50: Other:	No data available No data available No data available No data available	
Chronic toxicity:	No data available	
Skin corrosion: Eye damage:	No data available	
Sensitization (Respiration or Skin): No data available Germ cell mutagenicity: No data available		
Carcinogenicity:	No data available city: No data available	

NTP:	not listed
IARC:	not listed
<b>OSHA:</b>	not listed

Ecotoxicity:No data availablePersistence/Degradability:No data availableBioaccumulation Potential:No data availableMobility in Soil:No data available.Expected to be mobile because it is an aqueous solution.

# SECTION 13 – DISPOSAL CONSIDERATIONS

RCRA hazardous waste code:IAppropriate disposal containers:IAppropriate Method of Disposal:Ilocal environmental regulations.I

Not listed as a hazardous waste. No specific restrictions on waste container type. Clean up and dispose of waste in accordance with all federal, state and

# SECTION 14 – TRANSPORT INFORMATION

UN number: Proper Shipping Name:	N/A 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 numbersthat exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313.SARA 311/312:Not a hazardous substance or mixture

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

Pennsylvania Right to Know Components:

Water

CAS number: 7732-18-5

New Jersey Right to Know Components: No components are subject to New Jersey Right to Know Act.

**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.

# **SECTION 16 – OTHER INFORMATION**

#### **Preparation information:**

Prepared by:	Quality Department
Date Prepared:	February 12, 2015
<b>Replaced Version date:</b>	July 30, 2012

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LifeFactors<sup>®</sup> DermaLife<sup>®</sup> K, LS-1030

# SECTION 1 - PRODUCT AND COMPANY INFORMATION

Product Name:	Hydrocortisone Hemisuccinate
Product Number:	LS-1039
Company Address:	Lifeline Cell Technology 8415 Progress Drive, Suite T Frederick, MD 21701
Technical Phone: Fax: Emergency Phone:	(877) 845-7787 (443) 393-0393 (877) 845-7787
Product use:	Cell/Tissue culture

# SECTION 2 – HAZARDS IDENTIFICATION

Hazardous Components: Not a hazardous substance or mixture

# SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Principal Components:	Hydrocortisone hemisuccinate	CAS number:	125-04-2
	Water	CAS number:	7732-18-5

**Composition**: The item formulation is a vital corticosteroid hormone. With the exception of purified water, all ingredients are in concentrations of less than 0.1%.

**Synonym:** Hydrocortisone 21-Hemisuccinate Sodium, A-Hydrocort, Buccalsone, Corlan, Cortisol Hemisuccinate Sodium Salt, Cortisol 21-(Hydrogen Succinate), Cortisol Sodium Hemisuccinate, Cortisol Sodium Succinate, Cortisol 21-Sodium Succinate, EF-Cortelan Soluble, EMI-Corlan, Flebocortid, Hycorace, Hydrocortisone Sodium Succinate, Hydrocortisone 21-Sodium Succinate, Intracort, Nordicort, Oralsone, Sodium Hydrocortisone Succinate, Sodium Hydrocortisone 21-Succinate, Solucortef

# **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.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:** Not listed on the OSHA Occupational Chemical database.

**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, clear liquid above ~0° C.

Upper/lower flammability or Explosive limits: No data available				
Odor:	Odorless			
Vapor pressure:	No data available			
Odor threshold:	No data available			
Vapor density:	No data available			
pH:	Neutral			
<b>Relative density:</b>	No data available			
Freezing point:	~0° C			
Solubility:	Completely soluble in water			
<b>Boiling point:</b>	~100° C			
Flash point:	No data available			
<b>Evaporation rate:</b>	No data available			
Flammability:	Not flammable			
Upper/lower flammability or explosive limits: No data available		No data available		
<b>Relative density:</b>	~1 at 20° C			
Partition coefficie	nt: n-octanol/water:	No data available		
Auto-ignition temperature: No data available				
Viscosity:	No data available			

# SECTION 10 – STABILITY AND REACTIVITY

Reactivity:No data availableChemical stability:Stable under recommended storage and usage conditions.Possible hazardous reactions:No data availableConditions to be avoided:No data availableIncompatible materials:Strong oxidizing agentsHazardous 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:No data availableInhalation LC50:No data availableDermal LD50:No data availableOther:LD50 intraperitoneal – rat - 1,320 mg/kg

**Chronic toxicity:** This product is a glucocorticoid. Repeated exposure can cause: damage to eyes, disturbances of electrolyte balance, osteoporosis and spontaneous fractures, hyperglycemia, delayed wound healing, increased liability to infection, acne, weight gain, emotional instability and neurological disturbances.

Skin corrosion:No data availableEye damage:No data availableSensitization (Respiration or Skin): No data availableGerm cell mutagenicity:No data availableCarcinogenicity:Some glucocorticoid show carcinogenic or teratogenetic activity.

Reproductive toxicity:No data availableTeratogeniticity:Some glucocorticoid show carcinogenic or teratogenetic activity

#### Carcinogenicity

NTP:not listedIARC:not listedOSHA:not listed

### **SECTION 12 – ECOLOGICAL INFORMATION**

Ecotoxicity:No data availablePersistence/Degradability:No data availableBioaccumulation Potential:No data availableMobility in Soil:No data available.Expected to be mobile because it is an aqueous solution.

### SECTION 13 – DISPOSAL CONSIDERATIONS

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

# 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 numbersthat 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:				
Hydrocortisone hemisuccinate	CAS number:	125-04-2		
Water	CAS number:	7732-18-5		

New Jersey Right to Know Components:				
Hydrocortisone hemisuccinate	CAS number:	125-04-2		

**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.

# **SECTION 16 – OTHER INFORMATION**

#### **Preparation information**:

Prepared by:	Quality Department
Date Prepared:	February 12, 2015
<b>Replaced Version date:</b>	July 30, 2012

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