

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** LifeFactors™ StemLife Sk™  
**Product Number:** LS-1103

**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 3 – COMPOSITION / INFORMATION ON INGREDIENTS

#### Principal Components:

LifeFactors™ StemLife Sk™ Kit, LS-1103:

rh FGF-b, 0.5 mL, LS-1002

Stem Cell Qualified FBS, 20 mL, LS-1098

rh Insulin, 2.5 mL, LS-1099

rh EGF, 0.5 mL, LS-1015

L-Glutamine (200 mM), 25 mL, LS-1013

Dexamethasone, .1 mL, LS-1101

Gentamicin-Amphotericin B, 0.5 mL, LS-1104

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

#### Preparation information:

**Prepared by:** Quality Department

**Date Prepared:** February 18, 2021

**Replaced Version date:** May 9, 2019

**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.

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** rh FGF-b

**Product Number:** LS-1002

**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

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<b>Principal Components:</b>	recombinant human FGF-b	CAS number:	106096-93-9
	Water	CAS number:	7732-18-5

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

**Synonym:** Fibroblast Growth Factors-basic, bFGF, FGF-2

### 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.

# Safety Data Sheet

---

## 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

# Safety Data Sheet

**Vapor density:** No data available  
**pH:** Neutral  
**Relative density:** No data available  
**Freezing point:** ~0° C  
**Solubility:** Completely soluble in water  
**Boiling point:** ~100° C  
**Flash point:** No data available  
**Evaporation rate:** No data available  
**Flammability:** Not flammable  
**Upper/lower flammability or explosive limits:** No data available  
**Relative density:** ~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 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:** No data available  
**Inhalation LC50:** No data available  
**Dermal LD50:** No data available  
**Other:** No data available

**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:** No data available  
**Reproductive toxicity:** No data available  
**Teratogenicity:** No data available

### Carcinogenicity

**NTP:** not listed  
**IARC:** not listed  
**OSHA:** not listed

# Safety Data Sheet

---

## SECTION 12 – ECOLOGICAL 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.

---

## 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 Minimis) 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:** January 21, 2015  
**Replaced Version date:** 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.

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

---

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

---

**Product Name:** Stem Cell Qualified FBS

**Product Number:** LS-1098

**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

---

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

---

**Principal Components:** Fetal Bovine Serum CAS number: N/A

**Composition:** The item formulation is 100% fetal bovine serum.

**Synonym:** Fetal Bovine Serum, Fetal Calf Serum, FCS

---

### 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.

# Safety Data Sheet

---

## 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:** Tan or straw colored, frozen liquid.

**Upper/lower flammability or Explosive limits:** No data available

**Odor:** Faint earthy or musky odor

**Vapor pressure:** No data available

**Odor threshold:** No data available

# Safety Data Sheet

**Vapor density:** No data available  
**pH:** No data available  
**Relative density:** No data available  
**Freezing point:** No data available  
**Solubility:** 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:** No data available  
**Inhalation LC50:** No data available  
**Dermal LD50:** No data available  
**Other:** No data available

**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:** No data available  
**Reproductive toxicity:** No data available  
**Teratogenicity:** No data available

### Carcinogenicity

**NTP:** not listed  
**IARC:** not listed  
**OSHA:** not listed



# Safety Data Sheet

---

## SECTION 12 – ECOLOGICAL 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 in soil due to high solubility in water.

---

## 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 Minimis) 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:**

Fetal Bovine Serum                      CAS number:    N/A

**New Jersey Right to Know Components:**

Fetal Bovine Serum                      CAS number:    N/A

**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:** June 12, 2018  
**Replaced Version date:** N/A

**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.

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** rh Insulin

**Product Number:** LS-1099

**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

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<b>Principal Components:</b>	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:** human recombinant Insulin, rHu Insulin

### 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.

# Safety Data Sheet

---

## 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

# Safety Data Sheet

**Vapor density:** No data available  
**pH:** No data available  
**Relative density:** No data available  
**Freezing point:** ~0° C  
**Solubility:** Completely soluble in water  
**Boiling point:** ~100° C  
**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:** No data available  
**Inhalation LC50:** No data available  
**Dermal LD50:** No data available  
**Other:** No data available

**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:** No data available  
**Reproductive toxicity:** No data available  
**Teratogenicity:** No data available

### Carcinogenicity

**NTP:** not listed  
**IARC:** not listed  
**OSHA:** not listed

# Safety Data Sheet

---

## SECTION 12 – ECOLOGICAL 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.

---

## 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:** 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:** June 12, 2018  
**Replaced Version date:** N/A

**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.

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** rh EGF

**Product Number:** LS-1015

**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

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<b>Principal Components:</b>	recombinant human EGF	CAS number:	N/A
	Water	CAS number:	7732-18-5

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

**Synonym:** Epidermal Growth Factor, Urogastrone, URG

### 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.

# Safety Data Sheet

---

## 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

---

# Safety Data Sheet

**Vapor density:** No data available  
**pH:** Neutral  
**Relative density:** No data available  
**Freezing point:** ~0° C  
**Solubility:** Completely soluble in water  
**Boiling point:** ~100° C  
**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:** No data available  
**Inhalation LC50:** No data available  
**Dermal LD50:** No data available  
**Other:** No data available

**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:** No data available  
**Reproductive toxicity:** No data available  
**Teratogenicity:** No data available

### Carcinogenicity

**NTP:** not listed  
**IARC:** not listed  
**OSHA:** not listed



# Safety Data Sheet

---

## SECTION 12 – ECOLOGICAL 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.

---

## 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:** 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 10, 2015  
**Replaced Version date:** 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.

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** L-Glutamine [200 mM]  
**Product Number:** LS-1013  
**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

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<b>Principal Components:</b>	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.

**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.

# Safety Data Sheet

---

## 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, liquid with white precipitate above ~0° C, clear liquid above ~20° C.

**Upper/lower flammability or Explosive limits:** No data available

**Odor:** Odorless

**Vapor pressure:** No data available

**Odor threshold:** No data available

# Safety Data Sheet

**Vapor density:** No data available  
**pH:** No data available  
**Relative density:** No data available  
**Freezing point:** ~0° C  
**Solubility:** Completely soluble in water  
**Boiling point:** ~100° C  
**Flash point:** No data available  
**Evaporation rate:** No data available  
**Flammability:** Not flammable  
**Upper/lower flammability or explosive limits:** No data available  
**Relative density:** 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:** No data available  
**Inhalation LC50:** No data available  
**Dermal LD50:** No data available  
**Other:** No data available

**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:** No data available  
**Reproductive toxicity:** No data available  
**Teratogenicity:** No data available

### Carcinogenicity

**NTP:** not listed  
**IARC:** not listed  
**OSHA:** not listed

# Safety Data Sheet

---

## SECTION 12 – ECOLOGICAL INFORMATION

---

**Ecotoxicity:** No data available  
**Persistence/Degradability:** No data available  
**Bioaccumulation Potential:** No data available  
**Mobility in Soil:** No data available.

---

## 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 Minimis) 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  
**Replaced Version date:** 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.

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** Dexamethasone

**Product Number:** LS-1101

**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

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<b>Principal Components:</b>	Dexamethasone	CAS number:	50-02-2
	Water	CAS number:	7732-18-5

**Composition:** The item formulation is a corticosteroid hormone in a cyclodextrin complex for water solubility. Dexamethasone is in concentrations of less than 0.1%. With the exception of purified water, all other ingredients are in concentrations of less than 1%.

**Synonym:** Decadron, Oradexon, Hexadrol

### 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.

# Safety Data Sheet

## 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.

# Safety Data Sheet

---

## 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

**Relative density:** No data available

**Freezing point:** ~0° C

**Solubility:** Completely soluble in water

**Boiling point:** ~100° C

**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 (Dexamethasone):** Ingestion, skin, eye contact.

### Acute toxicity

**Oral – Rat LD50:** >3,000 mg/kg

**Inhalation LC50:** No data available

**Dermal LD50:** No data available

**Other:** No data available

**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 teratogenetic activity.

**Reproductive toxicity:** No data available

**Teratogenicity:** Some glucocorticoid show carcinogenic or teratogenetic activity

### Carcinogenicity



# Safety Data Sheet

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated carcinogen by NTP.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by OSHA.

---

## SECTION 12 – ECOLOGICAL 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.

---

## 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:**

Dexamethasone	CAS number:	50-02-2
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.

# Safety Data Sheet

---

## SECTION 16 – OTHER INFORMATION

---

### Preparation information:

**Prepared by:** Quality Department  
**Date Prepared:** June 12, 2018  
**Replaced Version date:** N/A

**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.

# Safety Data Sheet

## LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

### SECTION 1 – PRODUCT AND COMPANY INFORMATION

**Product Name:** Gentamicin-Amphotericin B

**Product Number:** LS-1104

**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 testing reagent

### SECTION 2 – HAZARDS IDENTIFICATION

#### Hazard Identification:

#### GHS Classification

Respiratory sensitization (Category 1), H334  
Skin sensitization (Category 1), H317  
Eye irritation (Category 2A), H361  
Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

#### GHS Label elements including precautionary statements:

Pictograms:



Signal word                      Danger

#### Hazard statements

H315                      Cause skin irritation.  
H317                      May cause allergic skin reaction  
H334                      May cause allergy or asthma symptoms or breathing difficulty if inhaled  
H335                      May cause respiratory irritation

#### Precautionary statements

P261                      Avoid breathing dust/fume/gas/mist/vapors/spray  
P264                      Wash hands thoroughly after handling.  
P271                      Use only outdoors or in a well ventilated area.  
P272                      Contaminated work clothing should not be allowed out of the workplace  
P280                      Wear protective gloves/protective clothing/eye protection/face protection  
P285                      In case of inadequate ventilation wear respiratory protection  
P302+P352              If on skin: Wash with plenty of soap and water

# Safety Data Sheet

P304+P341	If inhaled: If breathing is difficult, move victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P405	Store locked up
P501	Dispose of contents/container to an approved waste disposal plant

---

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

---

<b>Principal Components:</b>	Gentamicin Sulfate Salt	CAS number:	1405-41-0
	Amphotericin B	CAS number:	1397-89-3
	Water	CAS number:	7732-18-5

**Composition:** The subject formulation is a mixture of Gentamicin Sulfate, Amphotericin B and stabilizing agents in water.

### Hazardous components:

**Gentamicin Sulfate:** CAS #: 1405-41-0 EC #: 215-778-9  
**Concentration:** 3-6%  
**Classification:** Resp. Sens. 1; Skin Sens. 1; H317, H334

**Amphotericin B:** CAS #: 1397-89-3 EC #: 215-742-2  
**Concentration:** 0.001-0.005%  
**Classification:** Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335

**Synonym:** GA

---

## SECTION 4 – FIRST AID MEASURES

---

### First aid measures in case of exposure:

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

**Oral Exposure:** If swallowed, rinse out mouth with water. Call a physician.

**Dermal Exposure:** In case of contact with skin, wash with soap and water. 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.

**Most important symptoms and effects, acute or delayed:** Refer to section 2 for most important symptoms and effects, acute or delayed.

**Recommendations for immediate medical care or treatment:** No data available.

# Safety Data Sheet

---

## SECTION 5 – FIRE FIGHTING MEASURES

---

- General Fire hazard:** Components in this product do not present any special fire hazard. Carbon oxides, nitrogen oxides, sulfur oxides and sodium oxides may be released in a fire.
- Extinguishing media:** Use media appropriate for the material that is burning.
- Advice for Firefighters:** Wear self-contained breathing apparatus.

---

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

---

- Personal Precautions and Protective Equipment:** Refer to section 8 for appropriate personal protection. Avoid breathing mist, vapors or gas. Ensure adequate ventilation. Evacuate personnel to a safe location in case of accidental release.
- Environmental Precautions:** Prevent leakage or spillage into the environment. Do not let product enter into drains.
- Methods for Clean Up:** Use personal protective equipment when cleaning spilled product. Absorb liquid with absorbent material and then place in a closed container for hazardous waste 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:** Avoid contact with eyes, skin or clothing. Avoid inhalation of vapor or mist. Product may cause allergic reaction.
- Storage:** Keep container tightly closed and in the upright position. Store at -20°C or below.

---

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

---

- Components with workplace control parameters:** Contains no substances with occupational exposure limit values.
- Engineering Controls:** Handle with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday.
- Personal Protective Equipment:**
- Respiratory:** Respirator is not required. Avoid breathing fumes and limit exposure time.
- Hand:** Chemical resistant gloves required.
- Eye:** Safety glasses or goggles required.
- Clothing:** Laboratory coat required.
- General Hygiene Measures:** Wash hands thoroughly after handling.

# Safety Data Sheet

---

## SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

---

**Appearance:** Frozen, yellow tinted liquid

**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:** 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:** Oxidizing agents, strong acids

**Hazardous decomposition products:** Carbon oxides, nitrogen oxides, sulfur oxides and sodium oxides may be released in a fire.

---

## SECTION 11 – TOXICOLOGICAL INFORMATION

---

### Information on toxicological effects

**Acute toxicity:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/irritation:** No data available

**Respiratory or Skin sensitization:** No data available

**Germ Cell mutagenicity:** No data available

### Carcinogenicity

**NTP:** not listed  
**IARC:** not listed  
**OSHA:** not listed

**Reproductive toxicity:** No data available

# Safety Data Sheet

**Specific target organ toxicity – single exposure:** No data available

**Specific target organ toxicity – repeated exposure:** No data available

**Aspiration hazard:** No data available

## Additional Information:

RTECS: Not available

Liver – irregularities – Based on human evidence (Streptomycin Sulfate and Amphotericin B).

---

## SECTION 12 – ECOLOGICAL INFORMATION

---

**Toxicity:** No data available

**Persistence/Degradability:** No data available

**Bioaccumulation Potential:** No data available

**Mobility in Soil:** No data available. Expected to be mobile in soil due to high solubility in water.

---

## SECTION 13 – DISPOSAL CONSIDERATIONS

---

**Appropriate disposal of product:** Offer surplus product to a licensed disposal company. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner or scrubber.

**Appropriate disposal containers:** Follow procedure for unused product.

---

## SECTION 14 – TRANSPORT INFORMATION

---

**DOT:** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

---

## 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:** Acute health hazard, Chronic health hazard

**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
Gentamicin Sulfate	CAS number:	1405-41-0
Amphotericin B	CAS number:	1397-89-3

### New Jersey Right to Know Components:

Gentamicin Sulfate	CAS number:	1405-41-0
Amphotericin B	CAS number:	1397-89-3

# Safety Data Sheet

**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:** May 12, 2017  
**Replaced Version date:** NA

**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.