

Safety Data Sheet

LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: 100% 1,2-Propandiol Dehydration Solution

Product Number: CM-0056

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: 1,2-Propandiol CAS number: 57-55-6

Composition: The subject formulation is 100% 1,2-Propandiol.

Synonym: Propylene Glycol

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.

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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 absorbent material and then place in a closed container for disposal as hazardous waste. 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 and away from light. Store at room temperature. Product is hygroscopic and light sensitive.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters:

Component	CAS#	Value	Control Parameters	Basis
1,2-Propanediol	7-55-6	TWA	10.00000 mg/m ³	USA Workplace Environmental Exposure levels (WEEL)

- Engineering Controls:** Eye wash stations are required.
- Ventilation:** Area ventilation is generally adequate.
- Personal Protective Equipment:**
- Respiratory:** Respirator is not required for recommended usage.
- Hand:** Chemical resistant gloves required.
- Eye:** Safety glasses or goggles required.
- Clothing:** Laboratory coat recommended.
- General Hygiene Measures:** Wash hands thoroughly after handling.

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SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance: Clear, viscous liquid

Upper/lower flammability or Explosive limits: Upper Explosion limit: 12.5% (V)
Lower Explosion limit: 2.6% (V)

Odor: No data available

Vapor pressure: No data available

Odor threshold: No data available

Vapor density: 2.63 (Air = 1.0)

pH: No data available

Relative density: 1.036 g/ml at 25° C

Freezing point: -60° C

Solubility: No data available

Boiling point: 187° C

Flash point: 103° C

Evaporation rate: No data available

Flammability: 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: Exposure to moisture

Incompatible materials: Acid Chlorides, Acid anhydrides, Oxidizing agents, Chloroformates,
Reducing agents

Hazardous decomposition products: No data available

SECTION 11 – TOXICOLOGICAL INFORMATION

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

Acute toxicity

Oral LD50: Rat – 20,000 mg/kg

LD50 Dermal: Rabbit – 20,800 mg/kg

LD50 Intramuscular: Rat –14 g/kg

LD50 Intravenous: Dog –26 g/kg

LD50 Intraperitoneal: Rat –6,600 mg/kg

LD50 Subcutaneous: Rat –22,500 mg/kg

LD50 Intravenous: Rat –6,423 mg/kg

LD50 Subcutaneous: Mouse –17,370 mg/kg

LD50 Intraperitoneal: Mouse –9,718 mg/kg

LD50 Intravenous: Mouse –6,630 mg/kg

LD50 Intravenous: Rabbit –6,500 mg/kg

Skin corrosion: Human – Result: Mild Skin irritation – 7 d

Eye damage: Rabbit - Result: Mild eye irritation

Sensitization (Respiration or Skin): No data available

Germ cell mutagenicity: No data available

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Carcinogenicity: No data available
Reproductive toxicity: No data available
Teratogenicity: No data available

Carcinogenicity

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

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: mortality NOEC – Pimephales promelas (fathead minnow) – 52,930 mg/l - 96 h
Daphnia and other aquatic invertebrates:
mortality NOEC – Daphnia (water flea) – 13,020 mg/l - 48 h
EC50 - Daphnia magna (water flea) – 10,000 mg/l - 48 h

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 Minimus) reporting levels established by SARA Title III, Section 313.

SARA 311/312: Acute health hazard

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

Pennsylvania Right to Know Components: 1,2-Propandiol CAS number: 57-55-6

New Jersey Right to Know Components: 1,2-Propandiol CAS number: 57-55-6

California Prop. 65 Components: This product does not contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

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SECTION 16 – OTHER INFORMATION

HMIS Rating:

Health hazard:	1
Chronic health hazard:	
Flammability:	1
Physical hazard:	0

NFPA Rating:

Health hazard:	2
Fire hazard:	1
Reactivity hazard:	0

Preparation information:

Prepared by: Quality Department

Date Prepared: April 7, 2015

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