

Safety Data Sheet

LIFELINE CELL TECHNOLOGY SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: 85% 1,2-Propandiol Stain Differential Solution

Product Number: CM-0057

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
	Water	CAS number:	7732-18-5

Composition: The subject formulation is 85% 1,2-Propandiol in purified water.

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.

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 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 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.

Safety Data Sheet

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance: Clear, viscous liquid

Upper/lower flammability or Explosive limits: Upper Explosion limit: 12.5% (V, 1,2-Propandiol)
Lower Explosion limit: 2.6% (V, 1,2-Propandiol)

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: No data available

Boiling point: No data available

Flash point: No data available

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: No data available

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 (1,2-Propandiol)

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

Safety Data Sheet

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 (for 1,2-Propandiol):

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 Minimis) 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
Water	CAS number:	7732-18-5

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.

Safety Data Sheet

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

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.