

LIFELINE CELL TECHNOLOGY MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: 0.5% Oil Red O Stain

Product Number: CM-0054

Company Address: Lifeline Cell Technology
32 East Frederick Street
Walkersville, MD 21793

Technical Phone: (877) 845-7787

Fax: (301) 845-0885

Emergency Phone: (877) 845-7787

SECTION 2 – COMPOSITION / INFORMATION ON COMPONENTS

Liquid: The subject formulation is a solution of 0.5% Oil Red O and approximately 99.5% 1,2 Propanediol.

Oil Red O CAS# 1320-06-5

1,2 Propanediol CAS# 57-55-6, EC# 200-338-0

Synonyms: Not Applicable.

SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview:

OSHA Hazards: No known OSHA hazards

GHS Label elements, including precautionary statements

Pictogram none

Signal word Warning

Hazard statement(s) for Globally Harmonized System (GHS)

H316 Causes mild skin irritation.

H320 Causes eye irritation.

Precautionary statement(s) for GHS

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 0

Flammability: 1

Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 1

Reactivity Hazard: 0

ISSUE DATE: Jan. 15, 2008

Potential Health Effects:

Eye: May cause irritation of the eye.

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through the skin. May be a skin irritant.

Ingestion: May be harmful if ingested.

SECTION 4 – 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, wash with soap and copious amounts of water for at least 15 minutes. Call a physician if irritation occurs.

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.

Inhalation: If inhaled move to fresh air. Call a physician.

SECTION 5 – FIRE FIGHTING MEASURES

Information is non-applicable.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Methods for Clean Up: Absorb on laboratory towel and place in closed container for disposal. Ventilate area and wash spill site after material cleanup is complete. Do not allow this product to enter drains.

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid inhalation. Avoid contact with eyes. Avoid prolonged or repeated exposure.

Storage: Keep container tightly closed. Store at room temperature.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Component with workplace control parameters:

Component: Propane-1,2-diol CAS#: 57-55-6

Value Control parameters (TWA): 10 mg/m³

Basis: USA Workplace Environmental Exposure Levels (WEEL), Update 2008-01-01.

Engineering Controls: Eye wash stations are required.

Ventilation: Area ventilation is generally adequate.

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Personal Protective Equipment:

- Respiratory:** Respirator not required.
- Hand:** Chemical resistant gloves required.
- Eye:** Safety glasses or goggles required.
- General Hygiene Measures:** Wash hands thoroughly after handling.

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance: Dark Red Liquid.

SECTION 10 – STABILITY AND REACTIVITY

- Chemical stability:** Stable under recommended storage conditions.
 - Materials to avoid:** Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents
 - Hazardous decomposition products:** Hazardous decomposition products formed under fire conditions. - Carbon oxides.
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SECTION 11 – TOXICOLOGICAL INFORMATION

- Acute toxicity** no data available
- Skin corrosion/irritation** no data available
- Serious eye damage/eye irritation** no data available
- Respiratory or skin sensitization** no data available
- Germ cell mutagenicity** no data available
- Carcinogenicity**
 - 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.
 - ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
 - NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
 - OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
- Reproductive toxicity** no data available
- Specific target organ toxicity - single exposure (GHS)** no data available
- Specific target organ toxicity - repeated exposure (GHS)** no data available
- Aspiration hazard** no data available

Potential health effects

- Inhalation** May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion** May be harmful if swallowed.
- Skin** May be harmful if absorbed through skin. May cause skin irritation.
- Eyes** May cause eye irritation.

Signs and Symptoms of Exposure

Gastrointestinal disturbance, Nausea, Vomiting, Central Nervous System depression.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity to fish and aquatic invertebrates: 1,2 Propanediol, a component of this formulation, has been found toxic to fish and aquatic invertebrates (mortality NOEC- Pimephales promelas 59,930 mg/L- 96 hours; mortality NOEC- Daphnia 13,020 mg/L- 48 hours; EC50- Daphnia magna- >10,000 mg/L- 48 hours)

Persistence and degradation: no data available
Bioaccumulative potential: no data available
Mobility in soil: no data available
PBT and vPvB assessment: no data available
Other adverse effects: no data available

SECTION 13 – DISPOSAL CONSIDERATIONS

Appropriate Method of Disposal: Clean up and dispose of waste in accordance with all federal, state and local environmental regulations. Offer surplus solution to a licensed disposal company.

SECTION 14 – TRANSPORT INFORMATION

DOT: This product is considered to be non-hazardous for transport.
Proper Shipping Name: None.
IATA: This product is considered to be non-hazardous for air transport.

SECTION 15 – REGULATORY INFORMATION

OSHA Hazards No known OSHA hazards
DSL Status All components of this product are on the Canadian DSL list.
SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components This material does not contain any chemical components that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Propane-1,2-diol CAS# 57-55-6 Revision Date 1989-08-11

New Jersey Right To Know Components

Propane-1,2-diol CAS# 57-55-6 Revision Date 1989-08-11

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



SECTION 16 – OTHER INFORMATION

Disclaimer: This product is for research and development use only. Not for clinical or household use.

Warranty: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regards to appropriate safety precautions. Lifeline Cell Technology reserves the right to revise this MSDS periodically as new information becomes available. It does not represent any guarantee of the properties of the product. Lifeline Cell Technology shall not be held liable for any damage resulting from handling or from contact with the above product.