

ISSUE DATE: Jan. 15, 2008

LIFELINE CELL TECHNOLOGY MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name: 2% Alizarin Red Stain

Product Number: CM-0058

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 2% Alizarin Red in water (approximately 98%).

Alizarin Red CAS# 130-22-3, EC# 204-981-8

Synonyms: Alizarin Carmine, Alizarin Crimson, 3,4-Dihydroxy-9,10-dioxo-2-anthracenesulfonic solution.

SECTION 3 – HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards: Alizarin Red - Irritant

GHS Label elements, including precautionary statements

Pictogram



Signal word: Warning

Hazard statement(s):

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

ISSUE DATE: Jan. 15, 2008

Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash skin thoroughly after handling.
P271 Use only in a well-ventilated area.
P280 Wear protective gloves/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove 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.
P321 Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

HMIS Classification

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

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. Causes skin irritation.
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

Contains no substances with occupational exposure limit values.

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.

Safety data

pH:	pH 4.2 +/- 0.5
Melting point:	no data available
Boiling point:	no data available
Flash point:	no data available
Ignition temperature:	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Water solubility:	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Materials to avoid: Strong oxidizing agents

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions:
Carbon oxides, Sulphur oxides, Sodium oxides

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: no data available

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity to fish and aquatic invertebrates: Alizarin Red, a component of this formulation, has been found toxic to fish (*Oryzias latipes*, LC50 - 170 mg/l - 48 h)

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 SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers 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

Sodium 9,10-dihydro-3,4-dihydroxy-9,10-dioxoanthracene-2-sulphonate monohydrate CAS# 130-22-3

New Jersey Right To Know Components

Sodium 9,10-dihydro-3,4-dihydroxy-9,10-dioxoanthracene-2-sulphonate monohydrate CAS# 130-22-3

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.