



MATERIAL SAFETY DATA SHEET

Date: February 6, 2015

Version 2.0

Section A: Product and Company Information

Product Name: Human Esophagus Stem Cell Freezing Media
Product number: M36016-02FM

Brand: CELPROGEN
Company: CELPROGEN Inc.
Street Address: 3914 Del Amo Blvd Suite 901
City, State, Zip, Country: Torrance, CA 90503, USA
Technical phone: (310) 542 8822
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Fax: (310) 542 8028

Section B: Composition / Information on ingredient

Substance name: Human Esophagus Stem Cell Freezing Media
CAS #: None

Section C: Hazards Identification

Hazardous Ingredients: 5 to 10 % Dimethyl sulfoxide (DMSO)

HMIS Rating: Health: 0
Flammability: 0
Reactivity: 0

NFPA Rating: Health: 0
Flammability: 0
Reactivity: 0

For additional information on toxicity, please refer to section K

Section D: First Aid Measures

Oral Exposure: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure: In case of contact, immediately wash skin with soap and copious amounts of water.

Eye exposure: In case of contact with eyes, flush with copious amounts of water for at least 20 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section E: Fire Fighting Measures

Flash Point: N/A
Autoignition Temp: N/A
Flammability: N/A
Extinguishing media: Suitable: water spray. Carbon dioxide, dry chemical powder, or appropriate foam.



Fire Fighting Protective Equipment: wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): may emit toxic fumes under fire conditions.

Section F: Accidental release measures

Procedure(s) of personal precaution(s) Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.
 Methods for cleaning up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section G: Handling and Storage

Handling User exposure: avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
 Storage Suitable: keep tightly closed. Store at -20°C

Section H: Exposure Control / Personal Protective Equipment (PPE)

Engineering Controls: Safety shower and eye bath. Mechanical exhaust required.
 Personal Protective Equipment Respiratory: Wear dust mask
 Hand: Protective gloves
 Eye: Chemical safety goggles
 General Hygiene Measures Wash thoroughly after handling.

Section I: Physical / Chemical Properties

Appearance N/A
 Property Valued at the specified storage temperature and pressure.
 Molecular weight N/A
 pH N/A
 BP/ BP range N/A
 MP/MP range N/A
 Freezing point N/A
 Vapor pressure N/A
 Vapor Density N/A
 Saturated Vapor Conc. N/A
 SG/ Density N/A
 Bulk Density N/A
 Odor Threshold N/A
 Volatile % N/A
 VOC content N/A
 Water content N/A
 Solvent Content N/A
 Evaporation rate N/A
 Viscosity N/A
 Surface tension N/A
 Partition Coefficient N/A
 Decomposition Temp N/A
 Flash point N/A
 Explosion limits N/A



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|--------------------|-----|
| Flammability | N/A |
| Autoignition Temp | N/A |
| Refractive Index | N/A |
| Optical Rotation | N/A |
| Miscellaneous Data | N/A |
| Solubility | N/A |

N/A = not available

Section J: Stability and Reactivity

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|--------------------------|------------------------------------|
| Stability | Stable |
| Materials to avoid | Strong oxidizing agents |
| Hazardous Decomposition | Carbon mono-oxide, carbon dioxide. |
| Hazardous Polymerization | Will not occur |

Section K: Toxicological Information

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|-------------------|--|
| Route of exposure | Skin contact may cause skin irritation Skin absorption may be harmful if absorbed through the skin Eye contact may cause eye irritation Inhalation may be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Ingestion may be harmful if swallowed. |
|-------------------|--|

Signs & symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section L: Disposal Considerations

Appropriate method of disposal of substance or preparation:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mixture the material with combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section M: Transport Information

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|------|---|
| DOT | Proper shipping name: none Non-hazardous for transportation: this substance is considered to be non-hazardous for transport. |
| IATA | Non-hazardous for Air Transport: non-hazardous for air transport. |

Section N: Regulatory Information

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|---|---|
| United States Regulatory Information SARA Listed: | No |
| Canada Regulatory Information WHMIS Classification: | This product has been classified in accordance with the hazard criteria of CPR, and the MSDS contains all the information required by the CPR. DSL: No NDSL: No |



Section O: Other Information

Disclaimer: For R&D use only. Not for Drug, household or other 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 regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. CELPROGEN Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.