



## MATERIAL SAFETY DATA SHEET

October 16, 2009

Version 1.1

### Section A: Product and Company Information

Product Name: Human (Parental)Liver Cancer Stem Cell Extra-cellular Matrix.  
Tissue Culture Tested

Product number: E36116-43P-T75, E36116-43P-T25, E36116-43P-4Well, E36116-43P-6Well, E36116-43P-8Well, E36116-43P-12Wells, E36116-43P-24Well, E36116-43P-48Wells, E36116-43P-96Well, E36116-43P-CS12, E36116-43P-CS15, E36116-43P-CS18, E36116-43P-CS22, E36116-43P-MS10, E36116-43P-MS18.

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  
Emergency phone (310) 542-8822  
Fax (310) 542-8028

### Section B: Composition / Information on ingredient

Substance name Human Liver Cancer Stem Cell Extra-cellular Matrix  
CAS # None

### Section C: Hazards Identification

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.

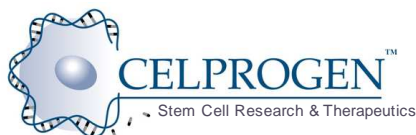
Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

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 2-8 <sup>o</sup> 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
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

Stability	stable
Hazardous Decomposition products	Materials to avoid: strong oxidizing agents Carbon mono-oxide, carbon dioxide.
Hazardous Polymerization	will not occur

## Section K: Toxicological Information

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 and 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.
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## Section M: Transport Information

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

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.