MATERIAL SAFETY DATA SHEET

Date: January 16, 2017 **Version 3.0**

Section A: Product and Company Information

Product Name:	Human Cardiomyocyte transdifferentiated from Human Stem Cells - T225 Plated Cells
Product number:	36003-04-T225
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 Cardiomyocyte transdifferentiated from Human Stem Cells - T225 Plated Cells
CAS #	None

Section C: Hazards Identification

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

GHS – Classification	
Health Hazards	Not hazardous
Physical Hazards	Not hazardous

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^{0}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
Materials to avoid	Strong oxidizing agents
Hazardous Decomposition	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 & 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

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

International Inventories

Complies
Not Hazardous

Korea

This product complies with applicable Korean chemical regulations.
Not Hazardous

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.