

Product identifier



# SAFETY DATA SHEET

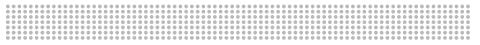
## 100-0522 - STEMdiff<sup>™</sup> Hepatic Progenitor Medium

Revision Date 12-Aug-2021 Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name       STEMdiff™ Hepatic Progenitor Medium         Other means of identification				
Other means of identification				
Catalog Number 100-0522				
<b>Document Number</b> 10000012212				
Synonyms None				
Recommended use of the chemical and restrictions on use				
Recommended Use Laboratory reagent				
Details of the supplier of the safety data sheet         Manufacturer/Supplier         STEMCELL Technologies Canada Inc.         Suite 500 - 1618 Station Street         Vancouver, British Columbia V6A 1B6 Canada         Emergency telephone number         Emergency Telephone         1-800-667-0322				
2. HAZARDS IDENTIFICATION				
Classification				
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Hazards not otherwise classified (HNOC) Not applicable Label elements				





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The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Clear

Physical state Liquid

0 % of the mixture consists of ingredient(s) of unknown toxicity

Odor No data available

Other Information

Causes mild skin irritation

#### Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Not applicable.

#### <u>Mixture</u>

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Chemical name	CAS No.	Weight-%
Trade secret	Trade secret	0 - 10%

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## **4. FIRST AID MEASURES**

### **Description of first aid measures**

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.





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Ingestion	Clean mouth with water and drink afterwards plenty of water.

### Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.

# Special protective equipment for<br/>fire-fightersFirefighters should wear self-contained breathing apparatus and full firefighting turnout<br/>gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.





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**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Store in accordance with information listed on the Product Information Sheet (PIS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

### Appropriate engineering controls

Engineering controls	Showers	
	Eyewash stations	
	Ventilation systems	

 Individual protection measures, such as personal protective equipment

 Eye/face protection
 No special protective equipment required.

No special protective equipment required.

Skin and body protection	No special protective equipment required.

- **Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
- Other protection
   This product contains material derived from human plasma. Donors have been tested and found negative for HIV-1 and -2, hepatitis B, and hepatitis C prior to donation. However, this product should be considered potentially infectious. Use controls and personal protection





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appropriate for biohazardous infectious materials, as described in: Canadian Biosafety Standards and Guidelines (CBSG), Second Edition.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liqu
Appearance	Clea
Color	red-
Odor	No
Odor threshold	No

Property pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative densitv** Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature **Decomposition temperature Kinematic viscosity** Dynamic viscosity **Explosive properties Oxidizing properties** 

Other Information Softening point Molecular weight Molecular formula VOC Content (%) Liquid Density Bulk density iquid iquid ilear ed-orange lo data available lo data available

#### Values

No data available No information available

No information available No information available No information available No information available No information available No information available

#### Remarks • Method None known None known

None known None known None known None known None known

None known None known None known None known None known None known None known None known

## **10. STABILITY AND REACTIVITY**





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Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

## **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available.	
Eye contact	Specific test data for the substance or mixture is not available.	
Skin contact	Causes mild skin irritation.	
Ingestion	Specific test data for the substance or mixture is not available.	
Symptoms related to the physical, o	hemical and toxicological characteristics	
Symptoms	No information available.	
Numerical measures of toxicity Acute toxicity The following values are calculated	based on chapter 3.1 of the GHS document	
ATEmix (oral)	1,450,000.00	
ATEmix (dermal)	4,000,000.00	
Unknown acute toxicity       0 % of the mixture consists of ingredient(s) of unknown toxicity         0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity         0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity         0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)         0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)         Product Information		

### **Component Information**





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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50					
Trade secret	= 14500 mg/kg (Rat)	= 40 g/kg (Rat)	> 5.33 mg/L (Rat)4 h					
	= 28300 mg/kg(Rat)							
Delayed and immediate effects	as well as chronic effects fror	n short and long-term exposure	e					
Skin corrosion/irritation	No information available.							
Product Information								
Serious eye damage/eye irritat	ion No information available.							
Product Information								
r iouuci momalion								
Respiratory or skin sensitization No information available.								
Product Information								
Germ cell mutagenicity No information available.								
Product Information								
Carcinogenicity No information available.								
Reproductive toxicity         No information available.								
Product Information								
STOT - single exposure	No information available.							
Product Information								
STOT - repeated exposure	No information available.							

Product Information

Aspiration hazard

No information available.

# **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

Product Information					
Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	
Trade secret	EC50: 12350 - 25500mg/L (96h, Skeletonema costatum)	LC50: >40g/L (96h, Lepomis macrochirus) LC50: 33 - 37g/L (96h, Oncorhynchus mykiss) LC50: =41.7g/L (96h, Cyprinus carpio) LC50: =34000mg/L (96h, Pimephales promelas)	-	EC50: =7000mg/L (24h, Daphnia species)	





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Persistence and degradability

**Bioaccumulation** 

No information available.

There is no data for this product.

**Component Information** 

Partition coefficient	
-2.03	

Other adverse effects

No information available.

## **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

# **14. TRANSPORT INFORMATION**

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG_	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated





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## **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### US State Regulations





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#### California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical name	California Proposition 65	
Trade secret -	Carcinogen	
	Developmental	

#### U.S. State Right-to-Know Regulations

#### US State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Х
7732-18-5			
Trade secret	Х	-	-

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By,

Quality Control. STEMCELL Technologies Canada Inc.

Revision Date 12-Aug-2021

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

### End of Safety Data Sheet