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# **Safety Data Sheet**

## STEMDIFF™ CARDIOMYOCYTE DISSOCIATION MEDIUM EFFECTIVE DATE: 2017-05-01

# 1 Product and Company Identification

**1.1 Product Name:** STEMdiff<sup>™</sup> Cardiomyocyte Dissociation Medium

**1.2 Product Identifier:** Withheld as a trade secret

**1.3 Catalog Number:** 05026

1.4 Product Use: Cell Culture

1.5 Manufacturer/Supplier: STEMCELL Technologies

Suite 500-1618 Station Street

Vancouver, British Columbia V6A 1B6 Canada

1.6 In Case of Emergency Call: 1-800-667-0322

## 2 Hazards Identification

#### 2.1 Classification of the substance or mixture

Respiratory sensitization, Category 1 Skin sensitization, Category 1

#### 2.2 Label elements

### **Pictogram**



DX21845-SDS\_1\_0\_0

Signal word Danger

**Hazard statement(s)** 

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

## Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the

workplace.

P280 Wear protective gloves.

P285 In case of inadequate ventilation wear respiratory protection.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air

and keep at rest in a position comfortable for breathing.

P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P342+311 If experiencing respiratory symptoms: Call a POISON CENTER

or doctor/physician.

P363 Wash contaminated clothing before reuse.

2.3 Other hazards No data available



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# 3 Composition / Information on Ingredients

### 3.1 Substances

Hazardous Components (Chemical Name)	CAS#	Concentration	EC#
Trade secret	Trade secret	*0.1 - 1%	Trade secret

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

#### 4 First Aid Measures

## 4.1 Description of first aid measures

### 4.1.1 If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### 4.1.2 In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

## 4.1.3 In case of eye contact

Flush eyes with water as a precaution.

#### 4.1.4 If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in section 2.2 and/or in section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 5 Fire Fighting Measures

## 5.1 Extinguishing Media

# 5.1.1 Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

### 5.1.2 Unsuitable Extinguishing Media

No data available

### 5.2 Special hazards arising from the substance or mixture

### 5.2.1 Flammable Properties and Hazards

No data available

#### 5.2.2 Flash Pt

No data available

## 5.2.3 Autoignition Pt

No data available

#### 5.2.4 Explosive Limits

LEL: No data available UEL: No data available



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#### 5.2.5 Hazardous Combustion Products

No data available

### 5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

### 6 Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

# 7 Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

### 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

### 8 Exposure Controls/Personal Protection

## 8.1 Exposure limits

Contains no substances with occupational exposure limit values.

# 8.2 Engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

# 8.3 Personal protective equipment

### 8.3.1 Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### 8.3.2 Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## 8.3.3 Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 8.3.4 General hygiene considerations

General industrial hygiene practice.

# 8.3.5 Environmental exposure controls

No data available

# 9 Physical and Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance	Clear, red liquid
Odour	No data available
Odour threshold	No data available
рН	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Decomposition temperature	No data available

# 10 Stability and Reactivity

Reactivity	No data available
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	No data available
	Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid Incompatible materials Hazardous decomposition products

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## 11 Toxicological Information

## 11.1 Acute toxicity

Oral: No data available
Inhalation: No data available
Dermal: No data available
Other: No data available

### 11.2 Skin corrosion/irritation

No data available

### 11.3 Serious eye damage/eye irritation

No data available

### 11.4 Respiratory and/or skin sensitization

No data available

## 11.5 Germ cell mutagenicity

No data available

## 11.6 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.

# 11.7 Reproductive toxicity

No data available

### 11.8 Specific target organ toxicity - single exposure

No data available

## 11.9 Specific target organ toxicity - repeated exposure

No data available

### 11.10 Aspiration hazard

No data available

### 11.11 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.

### 11.12 Signs and symptoms of exposure

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

11.13 RTECS # No data available



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## 12 Ecological Information

12.1	Toxicity	No data available
12.2	Persistence and degradability	No data available
12.3	Bioaccumulative potential	No data available
12.4	Mobility in soil	No data available
12.5	Other adverse effects	No data available

# 13 Disposal Considerations

# 13.1 Waste disposal method

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### 13.2 Contaminated packaging

Dispose of as unused product.

## 14 Transport Information

14.2	UN proper shipping name	DOT N	lot dangerous goods
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ADR/RID Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

**14.3 Transport hazard class(es)** No data available

**14.4 Packing group** No data available

**14.5 Environmental hazards**No data available

**14.6 Special precautions**No data available

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## 15 Regulatory Information

# 15.1 USA

### **SARA 302 Components:**

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

## **SARA 313 Components:**

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:

Acute Health Hazard

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

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### **Pennsylvania Right To Know Components**

No components are subject to the Pennsylvania Right to Know Act.

# **New Jersey Right To Know Components**

No components are subject to the New Jersey Right to Know Act.

# 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.

#### 15.2 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

### 15.3 Canada

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

### 16 Other Information

**16.1 Prepared by:** Quality Control, STEMCELL Technologies Inc.

**16.2 Revision:** 1\_0\_0

**16.3 Notice:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to

amendment by STEMCELL Technologies Inc.

16.4 Disclaimer: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR

**HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.**