

**Safety Data Sheet****CYTOKINE****EFFECTIVE DATE: 2016-08-08****1 Product and Company Identification****1.1 Product Name/Catalog Number:**

| Product Name           | Catalog Number          |
|------------------------|-------------------------|
| Human Recombinant GDNF | 78058, 78058.1, 78058.2 |
| Mouse Recombinant IL-2 | 78081, 78081.1, 78081.2 |

- 1.2 Product Use:** Cell Culture
- 1.3 Manufacturer/Supplier:** STEMCELL Technologies  
Suite 500-1618 Station Street  
Vancouver, British Columbia V6A 1B6 Canada
- 1.4 In Case of Emergency Call:** 1-800-667-0322

**2 Hazards Identification**

- 2.1 Classification of the substance or mixture**  
Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).
- 2.2 Label elements**  
Not a hazardous substance or mixture.
- 2.3 Other hazards** No data available

**3 Composition / Information on Ingredients**

- 3.1 Mixtures**  
No components need to be disclosed according to the applicable regulations.

**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.
- 4.1.2 In case of skin contact**  
Wash off with soap and plenty of water.
- 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.
- 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

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### 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

##### 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.

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### 6 Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

For personal protection see section 8.

#### 6.2 Environmental precautions

No special environmental precautions required.

#### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

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### 7 Handling and Storage

#### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

#### 7.2 Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

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### 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.

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                                   | Lyophilized powder |
| Odour  | No data available  |
| Odour threshold                              | No data available  |
| pH   | 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  |

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|  |                   |
|--|-------------------|
| Partition coefficient: n-octanol/water | No data available |
| Auto-ignition temperature              | No data available |
| Decomposition temperature              | No data available |
| Viscosity                              | No data available |

**10 Stability and Reactivity**

|  |                   |
|--|-------------------|
| <b>10.1 Reactivity</b>                         | No data available |
| <b>10.2 Chemical stability</b>                 | No data available |
| <b>10.3 Possibility of hazardous reactions</b> | No data available |
| <b>10.4 Conditions to avoid</b>                | No data available |
| <b>10.5 Incompatible materials</b>             | No data available |
| <b>10.6 Hazardous decomposition products</b>   | No data available |

**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

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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**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.

**13.2 Contaminated packaging**

Dispose of as unused product.

**14 Transport Information****14.1 UN number** No data available**14.2 UN proper shipping name**  
DOT Not dangerous goods  
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

No data available

#### 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

Not WHMIS controlled

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:** N/A

**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.

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