1 Product and Company Identification

1.1 Product Name/Catalog Number:

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEMdiff™ Neuron Differentiation Supplement B</td>
<td>08503</td>
</tr>
<tr>
<td>STEMdiff™ Dopaminergic Neuron Differentiation Supplement B</td>
<td>08523</td>
</tr>
<tr>
<td>STEMdiff™ Dopaminergic Neuron Maturation Supplement B</td>
<td>08533</td>
</tr>
<tr>
<td>STEMdiff™ Astrocyte Differentiation Supplement B</td>
<td>08543</td>
</tr>
<tr>
<td>STEMdiff™ Astrocyte Maturation Supplement B</td>
<td>08553</td>
</tr>
</tbody>
</table>

1.2 Product Use: As applicable

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

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.

6 Accidental Release Measures
6.1 Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas.
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
Keep in suitable, closed containers for disposal.

7 Handling and Storage
7.1 Precautions for safe handling
For precautions see section 2.2.
7.2 Conditions for safe storage

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

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 fume hood 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, amber liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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

### 10 Stability and Reactivity

**10.1 Reactivity**: No data available

**10.2 Chemical stability**: Stable under normal conditions

**10.3 Possibility of hazardous reactions**: No data available

**10.4 Conditions to avoid**: No data available

**10.5 Incompatible materials**: No data available

**10.6 Hazardous decomposition products**: 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.
# Safety Data Sheet

**STEMdiff™ Supplement**

**Effective Date:** 2015-06-01

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.7</td>
<td>Reproductive toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>11.8</td>
<td>Specific target organ toxicity - single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>11.9</td>
<td>Specific target organ toxicity - repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>11.10</td>
<td>Aspiration hazard</td>
<td>No data available</td>
</tr>
<tr>
<td>11.11</td>
<td>Potential health effects</td>
<td>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.</td>
</tr>
<tr>
<td>11.12</td>
<td>Signs and symptoms of exposure</td>
<td>To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.</td>
</tr>
<tr>
<td>11.13</td>
<td>RTECS #</td>
<td>No data available</td>
</tr>
</tbody>
</table>

## 12 Ecological Information

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1</td>
<td>Toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>12.2</td>
<td>Persistence and degradability</td>
<td>No data available</td>
</tr>
<tr>
<td>12.3</td>
<td>Bioaccumulative potential</td>
<td>No data available</td>
</tr>
<tr>
<td>12.4</td>
<td>Mobility in soil</td>
<td>No data available</td>
</tr>
<tr>
<td>12.5</td>
<td>Other adverse effects</td>
<td>No data available</td>
</tr>
</tbody>
</table>

## 13 Disposal Considerations

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.1</td>
<td>Waste disposal method</td>
<td>Offer surplus and non-recyclable solutions to a licensed disposal company.</td>
</tr>
<tr>
<td>13.2</td>
<td>Contaminated packaging</td>
<td>Dispose of as unused product.</td>
</tr>
</tbody>
</table>

## 14 Transport Information

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1</td>
<td>UN number</td>
<td>No data available</td>
</tr>
<tr>
<td>14.2</td>
<td>UN proper shipping name</td>
<td>DOT Not dangerous goods ADR/RID Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods</td>
</tr>
<tr>
<td>14.3</td>
<td>Transport hazard class(es)</td>
<td>No data available</td>
</tr>
<tr>
<td>14.4</td>
<td>Packing group</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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:
No SARA Hazards

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.

16.4 Disclaimer: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.