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

Product code                   RBXMD-01001
Product name                   Rabbit Adipose-derived Mesenchymal Stem Cells

Company/Undertaking Identification

Cyagen Biosciences Inc.
574 East Weddell Dr, Suite 6
Sunnyvale, CA 94089, U.S.A.
Tel: 800-921-8931

For research use only

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>67-68-5</td>
<td>10</td>
</tr>
</tbody>
</table>

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

3. HAZARDS IDENTIFICATION

Emergency Overview
Components of the product may be absorbed into the body through the skin

Form
Liquid
3. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th>Principle Routes of Exposure/</th>
<th>Potential Health effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Mild eye irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>moderate skin irritation. Components of the product may be absorbed into the body through the skin.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>No information available</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
</tbody>
</table>

**Specific effects**
- Carcinogenic effects: No information available
- Mutagenic effects: No information available
- Reproductive toxicity: No information available
- Sensitization: No information available

**Target Organ Effects**
- No information available

**HMIS**
- Health: 1
- Flammability: 0
- Reactivity: 0

4. FIRST AID MEASURES

<table>
<thead>
<tr>
<th>Skin contact</th>
<th>Wash off immediately with plenty of water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Rinse thoroughly with plenty of water, also under the eyelids.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Never give anything by mouth to an unconscious person</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Move to fresh air</td>
</tr>
<tr>
<td>Notes to physician</td>
<td>Treat symptomatically.</td>
</tr>
</tbody>
</table>

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media: Dry chemical
- Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions: Use personal protective equipment
- Methods for cleaning up: Soak up with inert absorbent material.

7. HANDLING AND STORAGE

- Handling: No special handling advice required
- Storage: Keep in properly labelled containers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure controls**

**Exposure limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL (TWA)</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Engineering measures

Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Respiratory protection
In case of insufficient ventilation wear suitable respiratory equipment

Hand protection
Impervious butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes. Nitrile gloves are not recomended. Some brands of Nitrile gloves have breakthrough times of five minutes.

Eye protection
Safety glasses with side-shields

Skin and body protection
Light weight protective clothing.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
Prevent product from entering drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form
Liquid

Important Health Safety and Environmental Information

Boiling point/range
°C No data available °F No data available

Melting point/range
°C No data available °F No data available

Flash point
°C No data available °F No data available

Autoignition temperature
°C No data available °F No data available

Oxidizing properties
No information available

Water solubility
Soluble

10. STABILITY AND REACTIVITY

Stability
Stable.

Materials to avoid
No information available

Hazardous decomposition products
No information available

Polymerization
Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rattrab bit)</th>
<th>LD50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>14500 mg/kg (Rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Principle Routes of Exposure/
Potential Health effects

Eye
Mild eye irritation.

Skin
Moderate skin irritation. Components of the product may be absorbed into the body through the skin.

Inhalation
No information available

Ingestion
May be harmful if swallowed.

Specific effects

Carcinogenic effects
No information available

Mutagenic effects
No information available

Reproductive toxicity
No information available
12. ECOLOGICAL INFORMATION

Ecotoxicity effects
No information available.

Mobility
No information available.

Biodegradation
Inherently biodegradable.

Bioaccumulation
Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

IATA

Proper shipping name: Not classified as dangerous in the meaning of transport regulations

Hazard Class: No information available

Subsidiary Class: No information available

Packing group: No information available

UN-No: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>PICCS</th>
<th>ENCS</th>
<th>DSL</th>
<th>NDSL</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>Listed</td>
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<td>-</td>
<td>Listed</td>
</tr>
</tbody>
</table>

U.S. Federal Regulations

SARA 313
This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contains HAPs.

U.S. State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Massachusetts - RTK</th>
<th>New Jersey - RTK</th>
<th>Pennsylvania - RTK</th>
<th>Illinois - RTK</th>
<th>Rhode Island - RTK</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
</tbody>
</table>

California Proposition 65
This product does not contain chemicals listed under Proposition 65

WHMIS hazard class:
D2B Toxic materials
This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

This material is sold for research and development purposes only. It is not for any human or animal therapeutic or clinical diagnostic use. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since Cyagen Biosciences Inc. cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

End of Safety Data Sheet