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

Product code: HUXMX-90101
Product name: Human Mesenchymal Stem Cell Hepatogenic Differentiation Medium

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
The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

3. HAZARDS IDENTIFICATION

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

Form
Liquid
3. HAZARDS IDENTIFICATION

Principle Routes of Exposure/
Potential Health effects

<table>
<thead>
<tr>
<th></th>
<th>Eyes</th>
<th>Skin</th>
<th>Inhalation</th>
<th>Ingestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Specific effects

<table>
<thead>
<tr>
<th></th>
<th>Carcinogenic effects</th>
<th>Mutagenic effects</th>
<th>Reproductive toxicity</th>
<th>Sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Target Organ Effects

No information available

HMIS

<table>
<thead>
<tr>
<th></th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Skin contact
Wash off immediately with plenty of water

Eye contact
Rinse thoroughly with plenty of water, also under the eyelids.

Ingestion
Never give anything by mouth to an unconscious person

Inhalation
Move to fresh air

Notes to physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Dry chemical

Special protective equipment for firefighters
Wear self-contained breathing apparatus and protective suit for firefighters

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
**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**: Protective gloves.
- **Eye protection**: Safety glasses with side-shields.
- **Skin and body protection**: Lightweight protective clothing.
- **Environmental exposure controls**: Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**General Information**
- **Form**: Liquid

**Important Health Safety and Environmental Information**

<table>
<thead>
<tr>
<th>Property</th>
<th>°C No data available</th>
<th>°F No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point/range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point/range</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</td>
<td></td>
</tr>
</tbody>
</table>

**10. STABILITY AND REACTIVITY**

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>No information available</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>No information available</td>
</tr>
<tr>
<td>Polymerization</td>
<td>Hazardous polymerisation does not occur.</td>
</tr>
</tbody>
</table>

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Principle Routes of Exposure**

**Potential Health effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye</td>
<td>No information available</td>
</tr>
<tr>
<td>Skin</td>
<td>No information available</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**

<table>
<thead>
<tr>
<th>Type</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carcinogenic effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Mutagenic effects</td>
<td>No information available</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No information available</td>
</tr>
</tbody>
</table>
Sensitization No information available
Target Orcia Effects 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

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 contain HAPs.

U.S. State Regulations

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

WHMIS hazard class: Non-controlled
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.

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End of Safety Data Sheet