SAFETY DATA SHEET
StemFit For Mesenchymal Stem Cell

The information is provided as a service to our customers and is intended only for their use. This information is based on technical information believed to be reliable and will be revised as new knowledge or experience is gained.

1. PRODUCT AND COMPANY IDENTIFICATION
   Product Name: StemFit For Mesenchymal Stem Cell
   Product Code: A3
   General Use: Culture for Stem
   Cell Product Description: Solution
   MSDS Number: Not Available

MANUFACTURER
   Company Name: AJINOMOTO CO., INC.
   Address: 1-15-1, Kyobashi, Chuo-ku, Tokyo 104-8315, Japan
   E-mail Address: stemfit@ajinomoto.com

2. HAZARDS IDENTIFICATION
   GHS classification: 0.1% Ethanol
   Signal word: WARNING
   Hazard pictogram:
   ![Flammable liquids hazard pictogram]

   PHYSICAL HAZARDS:

<table>
<thead>
<tr>
<th>GHS Physical Hazard</th>
<th>Flammable liquids</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS Physical Hazard Category Number</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

   HEALTH HAZARDS: Not Hazardous

   ENVIRONMENTAL HAZARDS: Not Hazardous

Date of Issue: Aug. 2019   Revision Number: Version01
Hazard statements: H226 - Flammable liquid and vapor

Precautionary statements:

Prevention
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P233 - Keep container tightly closed
P243 - Take action to prevent static discharges
P240 - Ground/bond container and receiving equipment

Response
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Storage
P403 + P235 - Store in a well-ventilated place. Keep cool

Disposal
P501 - Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Other Ingredients: Water, Glucose, Amino acids, Vitamin, Mineral, Growth factors and Protein CAS Registry Number: Not Available
HS code: 382100

4. FIRST-AID MEASURES

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

EYE : Rinse thoroughly with plenty of water for at least 15 minutes. Consult a physician.

SKIN : Wash off with soap and plenty of water for at least 15 minutes. Consult a physician.

INGESTION: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

PROTECTION TO FIRST-AIDERS: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED : H226 - Flammable liquid and vapor

NOTE TO PHYSICIAN: This product is containing various ingredients to culture the Stem Cell. The ingredients are, water, glucose, amino acids, vitamin, minerals, growth factors and proteins. These ingredients are almost similar one with the sold mediums used for the culture for stem cell in US, EU or Asian countries.
5. FIRE-FIGHTING MEASURES
   FLAMMABLE PROPERTIES: Data of flash point or ignition temperature are not available.
   EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical powder, appropriate foam or water spray.

6. ACCIDENTAL RELEASE MEASURES
   LAND SPILL: Use personal protective equipment. Wash spill site with water after material pickup is complete. Keep in suitable, closed containers for disposal.
   WATER SPILL: Do not let product enter drains.

7. HANDLING AND STORAGE
   HANDLING: Avoid contact with skin and eyes.
   STORAGE: Keep container tightly in the freezer of refrigerator.

8. EXPOSURE CONTROLS/PERSOANAL

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>JAPAN REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>1000 ppm</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>1900 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

PROTECTION
EXPOSURE LIMIT VALUES: Not Available
EXPOSURE CONTROLS: Not Available

Occupational Exposure Controls
Engineering controls: Not
Available Personal Protection
   Respiratory Protection: NIOSH or MSHA-approved respirator. Mechanical exhaust is required.
   Hand Protection: Handle with chemical-resistant gloves.
   Eye Protection: Put on safety glasses.
   Skin Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
   Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
9. PHYSICAL AND CHEMICAL PROPERTIES
   Appearance: Solution
   Odour: Non-odour.
   pH: Around pH7
   Boiling Point/Boiling Range: Not Available
   Melting Point/Melting Range: Almost 0℃
   Decomposition Temperature: Not Available
   Flash Point: Not Available
   Auto Ingestion Temperature: Not Available
   Flammability: Not Available
   Explosive Properties: Not Available
   Oxidizing Properties: Not Available
   Vapor Pressure: Not Available
   Relative Density: Not Available
   Solubility: Solution
   Partition Coefficient (n-octanol/water): Insoluble in non-polar solvents.
   Viscosity: Not Available
   Vapour Density: Not Available
   Evaporation Rate: Not Available

10. STABILITY AND REACTIVITY
    CONDITIONS TO AVOID: Product storage under ambient or heated conditions.
    STABILITY: Not Available
    MATERIALS TO AVOID: Heated surfaces or surroundings due to possible product instability
    HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS: Not Available

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>7060 mg/kg (rat)</td>
<td>no data available</td>
<td>124.7 mg/L (Rat)</td>
</tr>
</tbody>
</table>

Acute Toxicity: Not Available
Eye Irritation: Not Available
Skin Irritation: Not Available
Sensitization: Not Available
Repeated Dose Toxicity: Not Available
Chronic Toxicity: Not Available
Mutagenicity: Not Available
Carcinogenicity: Not Available
Reproductive and Developmental Toxicity: Not Available
12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Freshwater Algae Data</th>
<th>Water Flea Data</th>
<th>Freshwater Fish Species Data</th>
<th>Microtox Data</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>no data available</td>
<td>Daphnia magna EC_{50}=2 mg/L (48 h) Daphnia magna LC_{50}=92 mg/L (48 h)</td>
<td>no data available</td>
<td>no data available</td>
<td>log Pow=0.32</td>
</tr>
</tbody>
</table>

ECOTOXICITY: Not Available  
MOBILITY: Not Available  
PERSISTENCE AND BIODEGRADABILITY: Not Available  
BIOACCUMRATIVE POTENTIAL: Not Available  
OTHER ADVERSE EFFECTS: Not Available

13. DISPOSAL CONSIDERATION  
Comply with all federal, state and local regulations.  
Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATION  
US DEPARTMENT OF TRANSPORTATIONS (DOT)  
   HS code: 382100  
   Hazardous Materials Description and Proper Shipping Name: Not regulated.  
   Hazardous Class or Division: Not regulated.  
   Identification Number: Not regulated.  
   Packing Group (PG): Not regulated.  
   Label(s) Required: Not regulated.

SEA TRANSPORT  
   HS code: 382100  
   IMDG: Not regulated.  
   Class: Not regulated.  
   Packing Group (PG): Not regulated.
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UN Number: Not regulated.
Proper Shipping Name: Not regulated.
Marine Pollutant: Not regulated.

AIR TRANSPORT
HS code: 382100
ICAO/IATA: Not regulated.
Class: Not regulated.
Packaging Group (PG): Not regulated.
UN Number: Not regulated.
Proper Shipping Name: Not regulated.

15. REAGULATORY INFORMATION
OSHA STATUS: Not applicable
TSCA STATUS: Listed (Ethyl Alcohol CAS# 64-17-5)
Industrial Safety and Health Act (JP): Listed (Ethyl Alcohol CAS# 64-17-5)
CERCLA REPORTABLE QUANTITY (40 CFR 117,302): Not applicable
SARA TITLE III: Not applicable SECTION
   302 (40 CFR 355)
   SECTION 311/312 (40 CFR 370)
   SECTION 313 (40 CFR 372)
Please refer to any other federal, state and local regulations.

16. OTHER INFORMATION
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