Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers
Product Number M2049
Product Name Modified Shieh Agar (LMG Medium 215)
REACH Registration Number This product is a mixture. Reach registration number is not available for this mixture.

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant identified uses Laboratory Chemicals, Analytical Purpose, Biochemical Analysis
For InVitro Diagnostic Use

1.3 Details of the supplier of the safety data sheet
Produced by HiMedia Laboratories Private Limited
Address 23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086, India
Tel. No. +91-22-2500 0970, +91-22-2500 1607 Fax No. +91-22-2500 2468
Mail Id info@himedialabs.com
Website www.himedialabs.com

1.4 Emergency Tel. No.
Emergency Tel. No. Please contact the regional HiMedia representation in your country

Hazards Identification

2.1 Classification of the substance or mixture
CLP Classification - Regulation (EC) No. 1272/2008 [EU-GHS/CLP]
Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

2.2 Label elements
Labeling according to Regulation (EC) No.1272/2008
The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other Hazards
None

Composition/Information On Ingredients

3.2 Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barium chloride</td>
<td></td>
<td>As Per EC Regulation 1272/2008 H301; H332</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>10326-27-9</td>
<td>&gt;=0.01 - &lt;=0.1%</td>
</tr>
<tr>
<td>EC No. :</td>
<td>233-788-1</td>
<td></td>
</tr>
<tr>
<td>Index-No :</td>
<td>056-004-00-8</td>
<td></td>
</tr>
</tbody>
</table>

Page 1 of 8
4  First Aid Measures  
4.1  Description of first aid measures  
   **General advice**  
   Consult a physician. Show this safety data sheet to the doctor in attendance.  
   **If inhaled**  
   If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
   **In case of skin contact**  
   Wash off with soap and plenty of water. Consult a physician.  
   **In case of eye contact**  
   Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.  
   **If swallowed**  
   Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.  
4.2  Most important symptoms and effects, both acute and delayed  
No data available.  
4.3  Indication of immediate medical attention and special treatment needed  
No data available.  

5  Fire Fighting Measures  
5.1  Extinguishing media  
   **Suitable extinguishing media**  
   Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
   **Unsuitable extinguishing media**  
   No data available.  
5.2  Special hazards arising from the substance or mixture  
   Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Magnesium oxides  
5.3  Precautions for fire-fighters  
   Wear self contained breathing apparatus for fire fighting if necessary  
5.4  Further information
6 **Accidental Release Measures**

6.1 **Personal precautions, protective equipment and emergency procedures**
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 **Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 **Methods and materials for containment and cleaning up**
Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 **Reference to other sections**
For disposal see Section 13.

---

7 **Handling and Storage**

7.1 **Precautions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.2 **Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. **Recommended Storage Temperature**: On receipt store between 10-30°C

7.3 **Specific end uses**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

8 **Exposure Controls/Personal Protection**

8.1 **Control parameters**
Components with workplace control parameters

8.2 **Exposure controls**
**Appropriate engineering controls**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.

**Personal protective equipment**
**Hygiene measure**
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

**Eye/face protection**
Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

**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. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425/EEC and the standard EN ISO 374-1/2016 derived from it.
**Body protection**
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Environment exposure controls**
Do not empty into drains.

---

9  **Physical and chemical properties**

9.1  **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cream to yellow coloured homogeneous free flowing powder</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/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2  **Other safety information**
No data available

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10  **Stability and Reactivity**

10.1  **Reactivity**
No data available

10.2  **Chemical stability**
No data available

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
Refer Section 5.2

11 Toxicological Information
11.1 Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitisation
No data available

Germ cell mutagenicity
No data available

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.

Reproductive toxicity
No data available

Specific target organ toxicity- single exposure
No data available

Aspiration hazard
No data available

Potential Health Effects

Inhalation
REFER SECTION 2

Skin
REFER SECTION 2

Eyes
REFER SECTION 2

Ingestion
REFER SECTION 2

Additional Information
RTECS: No data available

11.2 Components

Barium chloride
Acute oral toxicity
Rat LD50:118mg/kg (IUCLID)

Acute inhalation toxicity
No data available

Acute dermal toxicity
No data available
Skin irritation
No data available
Eye irritation
No data available
Sensitisation
No data available
Germ cell mutagenicity
No data available
Genotoxicity in vitro
Ames test
Salmonella typhimurium
Result: negative (IUCLID)
Mutagenicity (mammal cell test)
Result: negative (IUCLID)
Carcinogenicity
No data available
Toxicity to Reproduction
No data available
Teratogenicity
No data available
Additional information:
RTECS: CQ 8751000

Ferrous Sulphate, Heptahydrate
Acute Oral Toxicity
Rat LC50: 319 mg/kg
Additional Information
RTECS: NO8510000

12 Ecological Information
12.1 Toxicity
No data available
Component:
Barium chloride
Toxicity to fish
Leuciscus idus (Golden orfe) LC50: 870 mg/l; 48 h (IUCLID)
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50: 21.9 mg/l; 48 h (anhydrous substance) (IUCLID)
Components:
Ferrous Sulphate, heptahydrate
Toxicity to fish
Poecilia reticulata (guppy) LC50: 925 mg/l; 96 h (As Per IUCLID)
Toxicity to daphnia and other aquatic invertebrates
Daphnia magna (Water flea) EC50: 152 mg/l; 48 h (anhydrous substance) (As Per IUCLID)
Toxicity to bacteria
Pseudomonas fluorescens EC50: 100 mg/l; 24 h (anhydrous substance) (As Per IUCLID)
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 PBT and vPvB assessment
This substance or mixture contains no components considered to be persistent, bioaccumulating nor toxic (PBT) at levels of 0.1% or higher.

12.6 Other adverse effects
No data available

13 Disposal Considerations

13.1 Waste treatments methods

Product
Offer surplus and non-recyclable solutions to a licenced company. Contact a licenced professional waste disposal service to dispose off this material.

13.2 Contaminated packaging
Dispose of as unused product.

14 Transport Information

14.1 UN-No
ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.2 UN proper shipping name
ADNR : Not dangerous goods
ADR : Not dangerous goods
IATA_C : Not dangerous goods
IATA_P : Not dangerous goods
IMDG : Not dangerous goods
RID : Not dangerous goods

14.3 Transport hazard class(es)
ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID :

14.4 Packaging group
ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.5 Environmental hazards
ADNR : No ADR : No IMDG : Marine Pollutant No IATA_C : No IATA_P : No RID : No

14.6 Special precautions for use
No data available

15 Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

15.1 Safety health and environment regulations/legislation specific for the substance or...
mixture
No data available

15.2 Chemical Safety Assessment
No data available

16 Other information

H301 Toxic if swallowed
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
Acute Tox. oral 4 Acute toxicity, oral, Category 4
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Skin Irrit. 2 Skin corrosion or irritation, Category 2

Further Information

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