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

1.1 Product Identifiers
Product Number: GM1865
Product Name: Listeria Selective Enrichment Broth, Granulated
REACH Registration Number: This product is a mixture. Reach registration number is not available for this substance.

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

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

2 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.

3 Composition/Information On Ingredients

3.2 Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cycloheximide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No.:</td>
<td>66-81-9</td>
<td></td>
</tr>
<tr>
<td>EC No.:</td>
<td>200-636-0</td>
<td></td>
</tr>
<tr>
<td>Index-No:</td>
<td>613-140-00-8</td>
<td></td>
</tr>
</tbody>
</table>

As Per EC Regulation 1272/2008
Acute Tox. oral 1,2; Skin Irrit. 2; Muta. 2; Repr. 1B; Aquatic Chronic 2
H300; H315; H341; H360D; H411
 >=0.1 - <=1.0%
Acriflavine hydrochloride

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>As Per EC Regulation 1272/2008</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>8063-24-9</td>
<td>Acute Tox. oral 4; Eye Dam. 1; Aquatic Chronic 2</td>
<td>&gt;=0.01 - &lt;=0.1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nafoxidinactinic acid</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
</tr>
</tbody>
</table>

Refer Section 16 for complete statement of H codes & classification.

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, Sodium oxides, Potassium oxides

5.3 Precautions for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary

5.4 Further information
No data available
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 2-8°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 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 89/686/EEC and the standard EN 374 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.

### Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cream to yellow coloured granular medium</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>7.10 - 7.50</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>

### Other safety information

No data available

### Stability and Reactivity

#### Reactivity

No data available

#### Chemical stability

No data available

#### Possibility of hazardous reactions

No data available

#### Conditions to avoid

No data available

#### Incompatible materials

No data available

#### Hazardous decomposition products

Refer Section 5.2. Other Decomposition products not known.
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 : Not available

11.2 Components
   
   **Cycloheximide**
   
   **Acute oral Toxicity**
   Rat LD50: 2mg/kg
   
   **Skin Corrosion/Irritation**
   Skin-rabbit Result: Skin irritation: 24 h
   
   **Germ cell mutagenicity**
   Lab experiments have shown mutagenic effects.
   Invitro tests showed mutagenic effects.
   
   **Reproductive toxicity**
   May cause congenital malformation in the fetus.
   Presumed human reproductive toxicant.
   Liver-irregularities-based on human evidence.
Acriflavine Hydrochloride

Acute Toxicity

LD50 Oral Rat: 1,048 mg/kg

Skin corrosion/irritation

Skin - Rabbit

Result: No irritation

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Irritation

Causes serious eye irritation

Additional information

RTECS: No data available

Causes cardiovascular effects, Central nervous system depression, Respiratory disorders

Nalidixic acid

Acute Oral Toxicity

Rat LD50 : 2040 mg/kg

Mouse LD50 : 572 mg/kg

Acute Intraperitoneal Toxicity

Rat LD50 : 319 mg/kg

Mouse LD50 : 600 mg/kg

Acute Intravenous Toxicity

Rat LD50 : 1160 mg/kg

Mouse LD50 : 101 mg/kg

Acute Dermal Toxicity

Rat LD50 : 1584 mg/kg

Mouse LD50 : 500 mg/kg

Additional Information

RTECS: QN2885000

12 Ecological Information

12.1 Toxicity

No data available for this mixture

Components

Acriflavine hydrochloride

Toxicity to Fish

Leuciscus idus (Golden orfe) LC50 : 1 - 10 mg/l; 48 h

Bluegill/Sunfish LC50: 13.5 mg/l; 48 h

Rainbow trout LC50 : 19.9 mg/l; 48 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential
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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H300</td>
<td>Fatal if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H341</td>
<td>Suspected of causing genetic defects</td>
</tr>
<tr>
<td>H360D</td>
<td>May damage the unborn child</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>Acute Tox. oral 1,2</td>
<td>Acute toxicity, oral, Category 1, 2</td>
</tr>
<tr>
<td>Acute Tox. oral 4</td>
<td>Acute toxicity, oral, Category 4</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment, long term hazard, Category 2</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage or eye irritation, Category 1</td>
</tr>
<tr>
<td>Muta. 2</td>
<td>Germ cell mutagenicity, Category 2</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity, Category 1B</td>
</tr>
<tr>
<td>Resp. Sens. 1</td>
<td>Sensitisation, respiratory, Category 1</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion or irritation, Category 2</td>
</tr>
</tbody>
</table>

### Further Information

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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.