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

1.1 Product Identifiers

Product Number  M1090
Product Name  Listeria Identification Broth Base
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

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.  +91-22-25002468
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]
Acute toxicity, Oral, (Category 4), H302
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319
Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008

Pictogram
Signal word  Warning
Hazard Statement(s)
H302  Harmful if swallowed
H315  Causes skin irritation
H319  Causes serious eye irritation
H335  May cause respiratory irritation
Precautionary Statement(s)
Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

IF ON SKIN: wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other Hazards
None

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>Ferric ammonium citrate</td>
<td>As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335</td>
<td>&gt;=1 - &lt;=10%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium chloride</td>
<td>As Per EC Regulation 1272/2008 Acute Tox.oral 4; Eye Irrit. 2A; STOT SE 3; Skin Irrit. 2 H302; H319; H335; H315</td>
<td>&gt;=10 - &lt;=50%</td>
</tr>
<tr>
<td>CAS No. : 7447-41-8</td>
<td>EC No. : 231-212-3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenol red</td>
<td>As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
</tr>
<tr>
<td>CAS No. : 143-74-8</td>
<td>EC No. : 205-609-7</td>
<td></td>
</tr>
</tbody>
</table>

Refer Section 16 for complete statement of H codes and its 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 with plenty of soap and water. Consult a physician.
\textit{In case of eye contact}\n
Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

\textit{If swallowed}\n
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 \textbf{Most important symptoms and effects, both acute and delayed}\n
No data available.

4.3 \textbf{Indication of immediate medical attention and special treatment needed}\n
No data available.

5 \textbf{Fire Fighting Measures}\n
5.1 \textbf{Extinguishing media}\n
\textit{Suitable extinguishing media}\n
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

\textit{Unsuitable extinguishing media}\n
No data available.

5.2 \textbf{Special hazards arising from the substance or mixture}\n
Carbon oxides, Sodium oxides, Hydrogen chloride gas, Lithium oxides

5.3 \textbf{Precautions for fire-fighters}\n
Wear self contained breathing apparatus for fire fighting if necessary

5.4 \textbf{Further information}\n
No data available.

6 \textbf{Accidental Release Measures}\n
6.1 \textbf{Personal precautions, protective equipment and emergency procedures}\n
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 \textbf{Environmental precautions}\n
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 \textbf{Methods and materials for containment and cleaning up}\n
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 \textbf{Reference to other sections}\n
For disposal see Section 13.

7 \textbf{Handling and Storage}\n
7.1 \textbf{Precautions for safe handling}\n
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

7.2 \textbf{Conditions for safe storage, including any incompatibilities}\n
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.

\textit{Recommended Storage Temperature} : On receipt store between 10-30°C

7.3 \textbf{Specific end uses}\n
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
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.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Light yellow to pink coloured homogeneous free flowing powder
Odour No data available
Odour Threshold No data available
pH 7.20 - 7.60
Melting/freezing point No data available
Initial boiling point and boiling range No data available
Flash point No data available
Flammability (Solid, gas) No data available
Vapour pressure No data available
Relative density No data available
Water Solubility No data available
Partition coefficient: n-octanol/water 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
Strong oxidizing agents

### Hazardous decomposition products
Refer Section 5.2

## Toxicological Information

### 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

**Potential Health Effects**

**Inhalation**
11.2 Components

Phenol Red

*Acute Oral Toxicity*
LD50 Rat: >600 mg/Kg
Intravenous Rat LD50: 752 mg/Kg
Intravenous Mouse LD50: 1368 mg/Kg

*Inhalation*
May cause respiratory irritation.

Additional Information:
RTECS: SJ7490000

Lithium chloride

*Acute oral toxicity*
Rat LD50: 526 mg/kg (As per RTECS)

*Acute inhalation toxicity*
Rat LC50: >5.57 mg/l; 4 h; aerosol
(As per OECD Test Guideline 403)

*Acute dermal toxicity*
Rat LD50: >2.000 mg/kg
(As per OECD Test Guideline 403)

*Skin irritation*
Rabbit
Result: Irritations (As per IUCLID)

*Eye irritation*
Rabbit
Result: Eye irritation (As per IUCLID)

*Germ cell mutagenicity*

*Genotoxicity in vitro*

*Ames test*
Result: Negative

Additional Information:
RTECS: OJ5950000
Ferric ammonium citrate

Acute Oral Toxicity
RatLD50: >2000 mg/kg

Acute Potential Health Effects

Skin
Contact may cause irritation or rash, particularly with moist skin.

Eyes
May cause eye irritation with redness, tearing, and abrasion.

Inhalation
Inhalation of high concentrations of dust may cause nasal, throat or lung irritation. Symptoms may include coughing and wheezing.

Ingestion
Ingestion can produce gastrointestinal tract irritation with hyper motility, diarrhea.

Chronic Potential Health Effects

Eyes
Prolonged eye contact may cause a brownish discoloration of the eyes.

Skin
Prolonged skin contact may cause skin irritation.

Additional information:

RTECS: GE7540000

12  Ecological Information
12.1  Toxicity
No data available

Components:
Lithium Chloride
Toxicity to Fish
LC50 Oncorhynchus mykiss (rainbow trout): 158 mg/l; 96 h
(Static test, As per OECD Test Guideline 203)
Toxicity to Daphnia
EC50 Daphnia magna (water flea): 249 mg/l; 48 h
(Static test, As per OECD Test Guideline 202)
Toxicity to Algae
EC50 Desmodesmus subspicatus (green algae):
Static test > 400 mg/l; 72 h
(Static test, As per OECD Test Guideline 201)

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 preparation contains substances considered to be persistent, bioaccumulating or 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 disposal 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 datasheet 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**
Text of H codes and classification mentioned in section 3
H302 Harmful if swallowed
H315  Causes skin irritation
H319  Causes serious eye irritation
H335  May cause respiratory irritation
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
STOT SE 3  Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

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.