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

1.1 Product Identifiers

- **Product Number**: M2045
- **Product Name**: Listeria Selective Primary Broth
- **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]**

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

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>Sodium carbonate</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.1 - &lt;=1.0%</td>
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<tr>
<td>CAS No. : 497-19-8</td>
<td>Eye Irrit. 2A  H319</td>
<td></td>
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<tr>
<td>EC No. : 207-838-8</td>
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<tr>
<td>Component</td>
<td>Classification</td>
<td>Concentration</td>
</tr>
<tr>
<td>-------------------------</td>
<td>-----------------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Lithium chloride</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=1.0 - &lt;=10.0%</td>
</tr>
</tbody>
</table>

Ref. 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 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), Hydrogen chloride gas, Sodium oxides, Oxides of phosphorus, Potassium oxides, Lithium 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
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 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
Appearance
Cream to yellow coloured homogeneous free flowing powder
Odour
No data available
Odour Threshold
No data available
pH
No data available
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
Autoignition Temperature
No data available
Viscosity
No data available
Explosive properties
No data available
Oxidizing properties
No data available
Vapour density
No data available
Thermal decomposition
No data available

9.2 Other safety information
No data available

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

Sodium carbonate
Acute Oral Toxicity
Rat LD50: 4090 mg/kg

Acute inhalation toxicity
Rat LC50: 5750 mg/l; 2 h

Additional information
RTECS: VZ4050000

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
Acute dermal toxicity
Rat LD50: >2.000 mg/kg

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

12 Ecological Information
12.1 Toxicity
No data available

Components:
Sodium carbonate
Toxicity to fish
Lepomis macrochirus (bluegill) LC50: 300 mg/l; 96 h

Toxicity to daphnia
Daphnia magna (water flea) EC50: 265 mg/l; 48 h
Daphnia magna (water flea) EC50: 265 mg/l; 72 h

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 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**

<table>
<thead>
<tr>
<th>ADNR</th>
<th>ADR</th>
<th>IATA_C</th>
<th>IATA_P</th>
<th>IMDG</th>
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</table>

14.2 **UN proper shipping name**

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<tbody>
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14.3 **Transport hazard class(es)**

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14.4 **Packaging group**

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14.5 **Environmental hazards**

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<th>Marine Pollutant</th>
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</table>

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**
16 Other information

- 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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