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

1.1 Product Identifiers

<table>
<thead>
<tr>
<th>Product Number</th>
<th>M569</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Listeria Enrichment Broth (Twin Pack)</td>
</tr>
<tr>
<td>REACH Registration Number</td>
<td>This product is a mixture. Reach registration number is not available for this mixture.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Produced by</th>
<th>HiMedia Laboratories Private Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td>23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India</td>
</tr>
<tr>
<td>Tel. No.</td>
<td>+91-22-2500 0970, +91-22-2500 1607</td>
</tr>
<tr>
<td>Fax No.</td>
<td>+91-22-25002468</td>
</tr>
<tr>
<td>Mail Id</td>
<td><a href="mailto:info@himedialabs.com">info@himedialabs.com</a></td>
</tr>
</tbody>
</table>

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 |
| Acute toxicity, Dermal, (Category 4), H312 |
| Acute toxicity, Inhaled, (Category 4), H332 |
| Hazardous to the aquatic environment, long term hazard, (Category 3), H412 |

2.2 Label elements

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

| Pictogram |
| Warning |

Hazard Statement(s)

| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H332 | Harmful if inhaled |
| H412 | Harmful to aquatic life with long lasting effects |

Precautionary Statement(s)
P280  Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352  IF ON SKIN: wash with plenty of soap and water.
P273  Avoid release to the environment.

2.3  Other Hazards
None

EUH032  Contact with acids liberates very toxic gas.

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>Acriflavine hydrochloride (Part A)</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.01 - &lt;=0.1%</td>
</tr>
<tr>
<td>CAS No.  : 8063-24-9</td>
<td>H302; H318; H411</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium thiocyanate (Part B)</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=90.0 - &lt;=100%</td>
</tr>
<tr>
<td>CAS No.  : 330-20-1</td>
<td>Acute Tox. oral 4; Acute Tox. dermal. 4; Acute Tox.inhal. 4; Aquatic Chronic 3</td>
<td></td>
</tr>
<tr>
<td>EC No.  : 206-370-1</td>
<td>H302; H312; H332; H412</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.

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, Sulphur oxides, Hydrogen chloride gas, 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 absorbent material. 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 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.

---

**Physical and chemical properties**

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Part A</th>
<th>Part B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Cream to yellow homogeneous free flowing powder</td>
<td>White to cream homogeneous free flowing powder</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.20 - 7.60</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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
Strong oxidizing agents
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

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
11.2 Components

Acriflavine Hydrochloride

Acute Oral Toxicity
Rat LD50: 1,048 mg/kg

Skin corrosion/irritation
Skin - Rabbit
Result: No irritation
Serious eye damage/eye irritation
Rabbit: Causes serious eye irritation

Additional information
RTECS: No data available
Causes cardiovascular effects, Central nervous system depression, Respiratory disorders

Potassium thiocyanate

Acute oral toxicity
Mouse LD50: 594 mg/kg
Mouse LD50: 590 mg/kg
Rat LD50: 854 mg/kg
Human oral TDLo: 428 mg/kg
Toxic psychosis, hallucinations, distorted perceptions, gastritis
Human oral LDLo: 80 mg/kg
hallucinations, distorted perceptions, convulsions, muscle weakness.
Rabbit oral LDLo: 500 mg/kg
Guinea pig oral LDLo: 600 mg/kg
Frog oral LDLo: 300 mg/kg

Carcinogenicity
Not listed by ACGIH, IARC, NTP or CA Prop 65.

Teratogenicity
No information available

Additional information
RTECS: XL1925000

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

**Components:**

**Potassium thiocyanate**

*Toxicity to fish*
Salvelinus fontinalis (Flow through test) LC50: > 27.9 mg/L; 96h
Oncorhynchus mykiss (rainbow trout) LC50: 11 mg/l; 96 h

*Toxicity to aquatic invertebrates*
Daphnia magna (Water flea)
LC50: 0.629 - <= 32.088 mg/L; 96h (Static test)
EC50: 2.8 mg/l; 96h

*Toxicity to aquatic algae and cyanobacteria*
Microcystis aeruginosa (Static test) EC50: 47 mg/L; 72h

*Toxicity to other aquatic organisms*
Pandalus montagui (pink shrimp) LC50: > 6.2 mg/L; 48h

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 no substance 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
H312 Harmful in contact with skin
H318 Causes serious eye damage
H332 Harmful if inhaled
H411 Toxic to aquatic life with long lasting effects
H412 Hazardous to the aquatic environment, long term hazard, Category 3
Acute Tox. dermal. 4 Acute toxicity, dermal, Category 4
Acute Tox.inhal. 4 Acute toxicity, inhaled, Category 4
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Aquatic Chronic 3

Further Information

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