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

1.1 Product Identifiers
- Product Number: M567
- Product Name: Listeria Selective Agar (Twin Pack)
- 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

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
- Signal word: 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)
2.3 Other Hazards
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 H302; H318; H411</td>
<td>&gt;=0.01 - &lt;=0.1%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>8063-24-9</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nalidixic acid (Part A)</td>
<td>As Per EC Regulation 1272/2008 Acute Tox.oral 4 H302</td>
<td>&gt;=0.01 - &lt;=0.1%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>389-08-2</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>206-864-7</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 Acute Tox.oral 4; Acute Tox. dermal. 4; Acute Tox.inhal. 4; Aquatic Chronic 3 H302; H312; H332; H412</td>
<td>&gt;=90.0 - &lt;=100%</td>
</tr>
<tr>
<td>CAS No. :</td>
<td>330-20-1</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>206-370-1</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.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Part A : Cream to yellow homogeneous free flowing powder
Part B : White to cream 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

Autoignition Temperature
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
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
REFER SECTION 2

Additional Information
RTECS: No data available

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

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

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; 96 h

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 treatment 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 Harmful to aquatic life with long lasting effects
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 Hazardous to the aquatic environment, long term hazard, 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.