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

1.1 Product Identifiers
Product Number          FD063
Product Name            Listeria Selective Supplement II
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.                 +91-22-25002468
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

Hazards Identification

2.1 Classification of the substance or mixture
CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]
Acute toxicity, Oral, (Category 1), H300
Serious eye damage or eye irritation, (Category 1), H318
Germ cell mutagenicity, (Category 2), H341
Reproductive toxicity, (Category 1A), H360D
Hazardous to the aquatic environment, long term hazard, (Category 2), H411
Sensitisation, respiratory, (Category 1), H334

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

Pictogram
Signal word   Danger
Hazard Statement(s)
H300          Fatal if swallowed
H318          Causes serious eye damage
H334          May cause allergy or asthma symptoms or breathing difficulties if inhaled
Suspected of causing genetic defects
May damage the unborn child
Toxic to aquatic life with long lasting effects

Precautionary Statement(s)

P201 Obtain special instructions before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

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>Cycloheximide</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=10 - &lt;=20%</td>
</tr>
<tr>
<td>CAS No. : 66-81-9</td>
<td>Acute Tox. oral 1,2; Skin Irrit. 2;</td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-636-0</td>
<td>Muta. 2; Repr. 1B; Aquatic Chronic 2</td>
<td></td>
</tr>
<tr>
<td>Index-No : 613-140-00-8</td>
<td>H300; H315; H341; H360D; H411</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</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=10 - &lt;=40%</td>
</tr>
<tr>
<td>CAS No. : 389-08-2</td>
<td>Resp. Sens. 1 H302</td>
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</tr>
<tr>
<td>EC No. : 206-864-7</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acriflavine hydrochloride</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=10 - &lt;=20%</td>
</tr>
<tr>
<td>CAS No. : 8063-24-9</td>
<td>Acute Tox.oral 4; Eye Dam. 1; Aquatic Chronic 2 H302; H318; H411</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  
Hazardous combustible gases or vapour may develop in the event of fire.  
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 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 Reddish Brown Homogenous powder
Odour No data available
<table>
<thead>
<tr>
<th>Property</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour Threshold</td>
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</tr>
<tr>
<td>pH</td>
<td>No data available</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>

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 Oxidising agents

10.6 Hazardous decomposition products

Other Decomposition products. No Data Available

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

Mixture may cause eye irritation.

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

Specific target organ toxicity - repeated 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.

Additional Information
RTECS: MA4375000

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

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
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 : 2811 ADR : 2811 IATA_C : 2811 IATA_P : 2811 IMDG : 2811 RID : 2811

14.2 UN proper shipping name
ADNR : Toxic solids, organic, n.o.s.
ADR : Toxic solids, organic, n.o.s.
IATA_C : Toxic solids, organic, n.o.s.
IATA_P : Toxic solids, organic, n.o.s.
IMDG : Toxic solids, organic, n.o.s.
RID : Toxic solids, organic, n.o.s.

14.3 Transport hazard class(es)

14.4 Packaging group

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

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.