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

1.1 Product Identifiers
Product Number: G070
Product Name: SD Growth Medium w/o HIS-LEU-TRP
REACH Registration Number: Reach registration number is not available for this mixture. The annual tonnage does not require a REACH registration or it is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant identified uses: Laboratory chemicals, Manufacture of substances

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: mb@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]
Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319

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

Pictogram: !
Signal word: Warning
Hazard Statement(s):
H315: Causes skin irritation
H319: Causes serious eye irritation

Precautionary Statement(s):
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash hands thoroughly after handling. Wash skin thoroughly after handling.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

### 2.3 Other Hazards

None

---

### 3 Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adenine</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;= -</td>
</tr>
<tr>
<td>CAS No. : 73-24-5</td>
<td>Acute Tox. oral. 3 H301</td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-796-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: $C_3H_5N_5$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight: 135.13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Arginine monohydrochloride</td>
<td></td>
<td>&gt;= -</td>
</tr>
<tr>
<td>CAS No. : 1119-34-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No. : 214-275-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: $C_6H_{14}N_4O_2\cdot HCl$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight: 210.66</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Aspartic acid</td>
<td></td>
<td>&gt;= -</td>
</tr>
<tr>
<td>CAS No. : 56-84-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-291-6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: $C_4H_7NO_4$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight: 133.10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Isoleucine, Plant Culture Tested</td>
<td></td>
<td>&gt;= -</td>
</tr>
<tr>
<td>CAS No. : 73-32-5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No. : 200-798-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: $C_6H_{13}NO_2$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Weight: 131.17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-Lysine monohydrochloride</td>
<td></td>
<td>&gt;= -</td>
</tr>
<tr>
<td>CAS No. : 657-27-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EC No. : 211-519-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Molecular Formula: $C_6H_{14}N_2O_2\cdot HCl$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### L-Methionine, Plant Culture Tested

<table>
<thead>
<tr>
<th>Component Classification Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS No.</strong> : 63-68-3</td>
</tr>
<tr>
<td><strong>EC No.</strong> : 200-562-9</td>
</tr>
<tr>
<td><strong>Molecular Formula</strong> : C₅H₁₁NO₂S</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong> : 149.21</td>
</tr>
<tr>
<td><strong>&gt;= -</strong></td>
</tr>
</tbody>
</table>

### L-Phenylalanine

<table>
<thead>
<tr>
<th>Component Classification Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS No.</strong> : 63-91-2</td>
</tr>
<tr>
<td><strong>EC No.</strong> : 200-568-1</td>
</tr>
<tr>
<td><strong>Molecular Formula</strong> : C₉H₁₁NO₂</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong> : 165.19</td>
</tr>
<tr>
<td><strong>&gt;= -</strong></td>
</tr>
</tbody>
</table>

### L-Threonine

<table>
<thead>
<tr>
<th>Component Classification Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS No.</strong> : 72-19-5</td>
</tr>
<tr>
<td><strong>EC No.</strong> : 200-774-1</td>
</tr>
<tr>
<td><strong>Molecular Formula</strong> : C₄H₉NO₃</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong> : 119.12</td>
</tr>
<tr>
<td><strong>&gt;= -</strong></td>
</tr>
</tbody>
</table>

### L-Tyrosine

<table>
<thead>
<tr>
<th>Component Classification Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS No.</strong> : 60-18-4</td>
</tr>
<tr>
<td><strong>EC No.</strong> : 200-460-4</td>
</tr>
<tr>
<td><strong>Molecular Formula</strong> : C₉H₁₁NO₃</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong> : 181.19</td>
</tr>
<tr>
<td><strong>As Per EC Regulation 1272/2008</strong></td>
</tr>
<tr>
<td><strong>Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3</strong></td>
</tr>
<tr>
<td><strong>H315; H319; H335</strong></td>
</tr>
<tr>
<td><strong>&gt;= -</strong></td>
</tr>
</tbody>
</table>

### Uracil

<table>
<thead>
<tr>
<th>Component Classification Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS No.</strong> : 66-22-8</td>
</tr>
<tr>
<td><strong>EC No.</strong> : 200-621-9</td>
</tr>
<tr>
<td><strong>Molecular Formula</strong> : C₄H₄N₂O₂</td>
</tr>
<tr>
<td><strong>Molecular Weight</strong> : 112.09</td>
</tr>
<tr>
<td><strong>&gt;= -</strong></td>
</tr>
</tbody>
</table>

### L-Valine

<table>
<thead>
<tr>
<th>Component Classification Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAS No.</strong> : 72-18-4</td>
</tr>
<tr>
<td><strong>EC No.</strong> : 200-773-6</td>
</tr>
<tr>
<td><strong>Molecular Formula</strong> : C₅H₁₁NO₂</td>
</tr>
<tr>
<td><strong>&gt;= -</strong></td>
</tr>
</tbody>
</table>
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
   The most important known symptoms and effects are described in the labeling (see section 2.2)
   and/or in section 11.
4.3  Indication of immediate medical attention and special treatment needed
   Treat symptomatically.

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
   Nature of decomposition products unknown
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
   Use personnel protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate
   ventilation. For personal protection see section 8.
6.2  Environmental precautions
   No special environmental precautions required.
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. For precautions see section 2.2.

7.2 **Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Liquids

**Recommended Storage Temperature**: 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 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 let product enter drains.
9 Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance White to cream 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
Evaporation rate No data available
Flammability (Solid, gas) No data available
Vapour pressure No data available
Relative density No data available
Water Solubility No data available
Autoignition Temperature No data available
Decomposition Temperature No data available
Explosive properties No data available
Oxidizing properties 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
Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.6 Hazardous decomposition products
In the event of fire. Refer section 5

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

Page 6 of 9
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

---

**12  Ecological Information**

**12.1  Toxicity**
No data available

**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**
No data available

**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.

**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
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

H301 Toxic if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation
Acute Tox.oral. 3 Acute toxicity, oral, Category 3
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

Copyright 2016 HiMedia Laboratories Pvt. Ltd.
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.