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

1.1 Product Identifiers
Product Number       PT012
Product Name         Nitsch Medium
                     w/ Vitamins & Sucrose;
                     w/o CaCl₂ & Agar
REACH Registration Number Reach registration number is not available for this mixture. According
to REACH regulation EC 1907/2006 this product is exempted from
registration. 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

1.2.2 Uses advised against
No data available

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
Mail Id            ptc@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*
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other Hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative
and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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><strong>Potassium nitrate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. : 7757-79-1</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=3 - &lt;=6%</td>
</tr>
<tr>
<td>EC No. : 231-818-8</td>
<td>Ox. Sol. 3 H272</td>
<td></td>
</tr>
<tr>
<td><strong>Ammonium nitrate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. : 6484-52-2</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=2 - &lt;=5%</td>
</tr>
<tr>
<td>EC No. : 229-347-8</td>
<td>Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H272; H315; H319; H335</td>
<td></td>
</tr>
<tr>
<td><strong>Manganese sulphate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. : 10034-96-5</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.07 &lt;=0.09%</td>
</tr>
<tr>
<td>EC No. : 232-089-9</td>
<td>STOT RE 2; Aquatic Chronic 2 H373; H411</td>
<td></td>
</tr>
<tr>
<td>Index-No : 025-003-00-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Boric acid</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. : 10043-35-3</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.04 &lt;=0.06%</td>
</tr>
<tr>
<td>EC No. : 233-139-2</td>
<td>Repr.Tox. 1A, 1B H360</td>
<td></td>
</tr>
<tr>
<td>Index-No : 005-007-00-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Zinc sulphate, heptahydrate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. : 7446-20-0</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.04 &lt;=0.06%</td>
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<tr>
<td>EC No. : 231-793-3</td>
<td>Acute Tox.oral 4; Eye Dam. 1; Aquatic Chronic 1 H302; H318; H410</td>
<td></td>
</tr>
<tr>
<td>Index-No : 030-006-00-9</td>
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<td></td>
</tr>
<tr>
<td><strong>Nicotinic acid</strong></td>
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</tr>
<tr>
<td>CAS No. : 59-67-6</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&gt;=0.01 &lt;=0.03%</td>
</tr>
<tr>
<td>EC No. : 200-441-0</td>
<td>Eye Irrit. 2A H319</td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and classification mentioned in this Section, see Section 16.

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
Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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
Magnesium oxides, Sulphur oxides, Sodium oxides, Iron oxides, Calcium Oxide, Cobalt oxides, Copper oxides, Manganese oxides, Molybdenum oxides, Oxides of Phosphorus, Potassium oxides, Zinc oxides

5.3 Precautions for fire-fighters
Cool closed containers exposed to fire with water spray.

5.4 Further information
Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personnel protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Keep in suitable, closed containers for disposal. Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). 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 formation of dust and aerosols. Wear protective gloves and eye/face protection. Use only in well ventilated areas. Keep away from heat, sparks and open flame.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool/well-ventilated place.

Recommended Storage Temperature : 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
8.2 Exposure controls

Appropriate engineering controls
Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks, immediately after handling the products and at the end of workday.

Personal protective equipment

Eye/face protection
Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Have eye-washing facilities readily available where eye contact can occur.

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 particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Environment exposure controls
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to off-white, homogenous powder</td>
</tr>
<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>3.3 - 4.3</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>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</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>Soluble in water</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition 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

Stable under recommended storage conditions.

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

Hazardous decomposition products formed under fire conditions - Nitrogen oxides (NOx), Sulphur oxides, Oxides of phosphorus, Potassium oxides, Magnesium oxide, Cobalt/cobalt oxides, Calcium oxide, Copper oxides

11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity
No data available
Remarks : No data available
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 - repeated exposure**
No data available
**Aspiration hazard**
No data available
**Additional Information**
RTECS : Not Applicable

### 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
This preparation contains no substance considered to be persistent, bioaccumulating or toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

### 13 Disposal Considerations

#### 13.1 Waste treatments methods
**Product**
Dispose of as unused product.

#### 13.2 Contaminated packaging
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licenced professional waste disposal service to dispose off this material.
### 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>
<th>RID :</th>
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<tbody>
<tr>
<td>Not dangerous goods</td>
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<td></td>
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<td></td>
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</table>

#### 14.2 UN proper shipping name

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<th>ADR :</th>
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<th>IATA_P :</th>
<th>IMDG :</th>
<th>RID :</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not dangerous goods</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 14.3 Transport hazard class(es)

<table>
<thead>
<tr>
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<th>ADR :</th>
<th>IATA_C :</th>
<th>IATA_P :</th>
<th>IMDG :</th>
<th>RID :</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

#### 14.4 Packaging group

<table>
<thead>
<tr>
<th>ADNR :</th>
<th>ADR :</th>
<th>IATA_C :</th>
<th>IATA_P :</th>
<th>IMDG :</th>
<th>RID :</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

#### 14.5 Environmental hazards

<table>
<thead>
<tr>
<th>ADR :</th>
<th>IMDG :</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Marine Pollutant : No IATA_C : No</td>
<td></td>
</tr>
</tbody>
</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

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

### 16 Other information

- **H272**: May intensify fire; oxidizer
- **H302**: Harmful if swallowed
- **H315**: Causes skin irritation
- **H318**: Causes serious eye damage
- **H319**: Causes serious eye irritation
- **H335**: May cause respiratory irritation
- **H360**: May damage fertility or the unborn child
- **H373**: May cause damage to organs through prolonged or repeated exposure
- **H410**: Very toxic to aquatic life with long lasting effects
- **H411**: Toxic to aquatic life with long lasting effects
- **Acute Tox.oral 4**: Acute toxicity, oral, Category 4
- **Aquatic Chronic 1**: Hazardous to the aquatic environment, long term hazard, Category 1
- **Aquatic Chronic 2**: Hazardous to the aquatic environment, long term hazard, Category 2
- **Eye Dam. 1**: Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
Ox. Sol. 3  Oxidising solids, Category 3
Repr. Tox. 1A, 1B  Reproductive toxicity, Category 1A, 1B
Skin Irrit. 2  Skin corrosion or irritation, Category 2
STOT RE 2  Specific target organ toxicity, repeated exposure, Category 2
STOT SE 3  Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3

Further Information

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