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

1.1 Product Identifiers
Product Number
PT089
Product Name
Carrot Callus Initiation Medium w/Vitamins & 2,4-D; w/o Sucrose & 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 Fax No.
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
Oxidising solids, (Category 3), H272
For the full text of the H-Statements mentioned in this Section, See Section 16

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

Pictogram
Signal word Warning
Hazard Statement(s)
H272 May intensify fire; oxidizer
Precautionary Statement(s)
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. :</td>
<td>7757-79-1</td>
<td></td>
</tr>
<tr>
<td>EC No. :</td>
<td>231-818-8</td>
<td>&gt;=70 - &lt;=80%</td>
</tr>
<tr>
<td></td>
<td>As Per EC Regulation 1272/2008</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ox. Sol. 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H272</td>
<td></td>
</tr>
<tr>
<td><strong>Calcium chloride, anhydrous</strong></td>
<td><strong>As Per EC Regulation 1272/2008</strong></td>
<td></td>
</tr>
<tr>
<td>CAS No. :</td>
<td>10043-52-4</td>
<td>&gt;=3 - &lt;=6%</td>
</tr>
<tr>
<td>EC No. :</td>
<td>233-140-8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2A</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H319</td>
<td></td>
</tr>
<tr>
<td><strong>Manganese sulphate</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No. :</td>
<td>10034-96-5</td>
<td>&gt;=0.2 - &lt;=0.5%</td>
</tr>
<tr>
<td>EC No. :</td>
<td>232-089-9</td>
<td></td>
</tr>
<tr>
<td>Index-No :</td>
<td>025-003-00-4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>As Per EC Regulation 1272/2008</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STOT RE 2; Aquatic Chronic 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H373;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>H411</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. Storage class (TRGS 510): Oxidizing Solids

**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>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>3.5 - 4.5</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>Property</td>
<td>Value</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------------------------------</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 of this material.

14 Transport Information
14.1 UN-No
ADNR : 1486 ADR : 1486 IATA_C : 1486 IATA_P : 1486 IMDG : 1486 RID : 1486

14.2 UN proper shipping name
ADNR : Potassium nitrate
ADR : Potassium nitrate
IATA_C : Potassium nitrate
IATA_P : Potassium nitrate
14.3 Transport hazard class(es)
   ADNR : 5.1  ADR : 5.1  IATA_C : 5.1  IATA_P : 5.1  IMDG : 5.1  RID : 5.1

14.4 Packaging group

14.5 Environmental hazards
   ADR : No  IMDG : Marine Pollutant : No  IATA_C : No

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
   H319  Causes serious eye irritation
   H373  May cause damage to organs through prolonged or repeated exposure
   H411  Toxic to aquatic life with long lasting effects
   Aquatic Chronic 2  Hazardous to the aquatic environment, long term hazard, Category 2
   Eye Irrit. 2A  Serious eye damage or eye irritation, Category 2A
   Ox. Sol. 3  Oxidising solids, Category 3
   STOT RE 2  Specific target organ toxicity, repeated exposure, Category 2

Further Information

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