## Product Information

### Product Number

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Packing</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCT0007</td>
<td>1KG</td>
</tr>
<tr>
<td>PCT0007</td>
<td>500G</td>
</tr>
</tbody>
</table>

### Product Information

- **Product Code**: PCT0007
- **Product Name**: Magnesium nitrate hexahydrate, Plant Culture Tested
- **Molecular Formula**: \( \text{Mg(NO}_3\text{)}_2\cdot6\text{H}_2\text{O} \)
- **Molecular Weight**: 256.41
- **CAS No.**: 13446-18-9
- **EC No.**: 2834 29 80
- **Shelf Life**: 4 years

### Technical Specification

- **Appearance**: White deliquescent crystals or powder or solid
- **Solubility**: 1000 mg soluble in 1 mL of water
- **pH (5% in water at 25°C)**: 5.00 - 8.20
- **Cultural response**: Cultures conditions - Incubation period (5wks), Relative humidity (60±2%), Temperature (25±2°C), Photoperiod Day: Night in hours (16:8)
- **Shoot culture**: No structural deformity observed, actively growing shoots, no toxicity to shoots
- **Callus culture**: No necrotic tissues, actively growing callus, no toxicity to callus
- **Chloride (Cl)**: <= 0.001%
- **Ammonium (NH\text{4})**: <= 0.003%
- **Heavy metals (as Pb)**: <= 0.0005%
- **Iron (Fe)**: <= 0.0005%
- **Insoluble matter**: <= 0.005%
- **Strontium (Sr)**: <= 0.005%
- **Sodium (Na)**: <= 0.005%
- **Potassium (K)**: <= 0.005%
- **Barium (Ba)**: <= 0.005%
- **Phosphate (PO\text{4})**: <= 0.0005
- **Manganese (Mn)**: <= 0.0005
- **Sulfate (SO\text{4})**: <= 0.005%
- **Assay (EDTA Titration)**: 99.00 - 102.00%

### Risk and Safety Information

- **WGK**: 1
- **RTECS**: OM3756000

### Transport Information

- **Storage Temperature(°C)**: Store below 30°C
<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine Pollutant</td>
<td>No</td>
</tr>
<tr>
<td>ADR/RID</td>
<td>Not Dangerous Goods</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not Dangerous Goods</td>
</tr>
<tr>
<td>IATA</td>
<td>Not Dangerous Goods</td>
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