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

1.1 Product Identifiers

Product Number  PCT0303
Product Name  L-Asparagine monohydrate, Plant Culture Tested
CAS No. :  5794-13-8
EC No. :  200-735-9

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  info@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

none

3 Composition/Information On Ingredients

3.1 Substances

Molecular Formula :  C₄H₈N₂O₅.H₂O
Molecular Weight :  150.13
CAS No. :  5794-13-8
EC No. :  200-735-9
No components need to be disclosed according to the applicable regulations.

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**
Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**
Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

**If swallowed**
Do NOT induce vomiting. 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**
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**
Carbon oxides, nitrogen oxides (NOX)

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. Discharge into environment must be avoided.

6.3 **Methods and materials for containment and cleaning up**
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 contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. 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.
Recommended Storage Temperature: Below 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
Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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
Faceshield and safety goggles.

Skin protection
Handle with gloves.

Body protection
Complete suit protecting against chemicals.

Respiratory protection
Air-purifying respirators.

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
Appearance: Colourless or white to off-white crystals or 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
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<thead>
<tr>
<th>Property</th>
<th>Data Availability</th>
</tr>
</thead>
<tbody>
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<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>
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<tr>
<td>Flammability (Solid, gas)</td>
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<tr>
<td>Vapour pressure</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Water Solubility</td>
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<tr>
<td>Partition coefficient: n-octanol/water</td>
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<tr>
<td>Autoignition Temperature</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidizing properties</td>
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<td>Vapour density</td>
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</tr>
<tr>
<td>Thermal decomposition</td>
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</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**

Strong oxidizing agents

10.6 **Hazardous decomposition products**

Other decomposition products - refer section 5.2.

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**

No data available

**Germ cell mutagenicity**
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

Additional Information
RTECS : Not 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
PBT and vPvB assessment not available Chemical safety assessment is not required

12.6 Other adverse effects
Discharge into the environment must be avoided.

13 Disposal Considerations
13.1 Waste treatments methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

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
- 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

#### Further Information
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