

## L-ASPARAGINE MONOHYDRATE

### SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

**Product Name:** L- ASPARAGINE MONOHYDRATE

**Product Code:** 1106

**CAS#:** 5794138

**Chemical Formula:** C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>.H<sub>2</sub>O

**Molecular Formula:** 150.14

### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

**Composition:**

**Name:** L-Asparagine monohydrate

**Chemical Formula:** C<sub>4</sub>H<sub>8</sub>N<sub>2</sub>O<sub>3</sub>.H<sub>2</sub>O

**Molecular Formula:** 150.13

### SECTION 3: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

This substance is not classified as dangerous according to Directive 67/548/EEC.

**Other hazards** None

### SECTION 4: FIRST AID MEASURES

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

### SECTION 5: FIRE AND EXPLOSION DATA

**Suitable extinguishing media**

Special powder against metal fire Dry sand Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special hazards arising from the substance or mixture**

No data available

**Advice for firefighters**

Wear self contained breathing apparatus for firefighting if necessary

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions and emergency procedures**



Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**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 wetbrushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wetbrushing and transfer to a container for disposal according to local regulations.

## SECTION 7: HANDLING AND STORAGE

**Precautions:**

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition

No smoking. Take measures to prevent the build up of electrostatic charge.

**Storage:**

Store in cool place. Keep container tightly closed in a dry and wellventilated place. Store in original container. Do not store near combustible materials. Keep in a cool place away from acids. Keep in a cool place away from bases. Keep in a cool place away from oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Eye/face protection**

Safety glasses with sideshields conforming to EN166 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 of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Respiratory protection**

Where risk assessment shows airpurifying respirators are appropriate use a fullface particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a fullface supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state and appearance</b>	:	Crystalline powder
<b>Odor</b>	:	Not available
<b>Taste</b>	:	Not available
<b>Molecular Weight</b>	:	Not available
<b>Color</b>	:	Not available
<b>pH (10% soln/water)</b>	:	Not available
<b>Boiling Point</b>	:	Not available
<b>Melting Point</b>	:	Not available
<b>Critical Temperature</b>	:	Not available
<b>Specific Gravity</b>	:	Not available
<b>Vapor Pressure</b>	:	Not applicable

Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

#### SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** Stable under recommended storage conditions.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Strong oxidizing agents

**Special Remarks on Reactivity:** Not available.

#### SECTION 11: TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available

**Skin corrosion/irritation:** Not available.

**Serious eye damage/eye irritation:** Not available.

**Respiratory or skin sensitization:** Not 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:** Not available.

**Specific target organ toxicity - single exposure:** Not available.

**Specific target organ toxicity - repeated exposure:** Not available.

**Aspiration hazard:** Not available.

#### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity:** no data available

**Persistence and degradability:** Not available.

**Bioaccumulative potential:** Not available.

**Mobility in soil:** Not available.

#### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

#### SECTION 14: TRANSPORT INFORMATION

**UN number:**

**ADR/RID:**

**IMDG:**

**IATA:**

**UN proper shipping name**

**ADR/RID:** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

**Transport hazard class(es):**



ADR/RID:	IMDG:	IATA:
Packaging group:		
ADR/RID:	IMDG:	IATA:
Environmental hazards:		
ADR/RID: No	IMDG Marine pollutant: No	IATA: No

#### SECTION 15: OTHER REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not available.

**Chemical Safety Assessment:** Not available.

#### SECTION 16: OTHER INFORMATION

**References:** Not available.

**Other Special Considerations:** Not available.

The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.

