

## L-ASPARAGINE MONOHYDRATE

### SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: L- ASPARAGINE MONOHYDRATE  
Product Code: CM 23,499  
CAS#: 5794138  
Chemical Formula:  $C_4H_8N_2O_3 \cdot H_2O$   
Molecular Formula: 150.14

### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:  
Name: L-Asparagine monohydrate  
Chemical Formula:  $C_4H_8N_2O_3 \cdot H_2O$   
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

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

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