



**SAFETY DATA SHEET**  
L-ASPARAGINE MONOHYDRATE

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Revision No: 1

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** L-ASPARAGINE MONOHYDRATE

**CAS number:** 5794-13-8

**EINECS number:** 200-735-9

**Product code:** A-12073

**Synonyms:** (S)-2-AMINOSUCCINIC ACID 4-AMIDE  
L-ASPARTIC ACID 4-AMIDE  
(S)-(+)-2-AMINOSUCCINAMIC

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Use of substance / mixture:** As a general purpose laboratory reagent

**1.3. Details of the supplier of the safety data sheet**

**Company name:** Park Scientific Limited  
24 Low Farm Place  
Moulton Park  
Northampton  
Northamptonshire  
NN3 6HY  
UK  
**Tel:** 01604 646945  
**Fax:** 01604 648241  
**Email:** info@parkscientific.com

**1.4. Emergency telephone number**

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** This product has no classification under CLP.

**2.2. Label elements**

**Label elements:** This product has no label elements.

**2.3. Other hazards**

**Other hazards:** Not classified as dangerous according to EC directives

**PBT:** This substance is not identified as a PBT substance.

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**Section 3: Composition/information on ingredients**

**3.1. Substances**

**Chemical identity:** L-ASPARAGINE MONOHYDRATE

**Contains:** Organic solid

**Section 4: First aid measures**

**4.1. Description of first aid measures**

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Give 1 cup of water to drink every 10 minutes. Consult a doctor.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

**4.2. Most important symptoms and effects, both acute and delayed**

**Skin contact:** Quantitative data on the toxicity of this product are not available. May be harmful if absorbed through skin.

**Eye contact:** There may be pain and redness.

**Ingestion:** Quantitative data on the toxicity of this product are not available. May be harmful if swallowed.

**Inhalation:** Quantitative data on the toxicity of this product are not available. May be harmful.

**Delayed / immediate effects:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Immediate / special treatment:** Show this safety data sheet to the doctor in attendance.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Water. Carbon dioxide. Dry chemical powder. Alcohol resistant foam.

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

**Exposure hazards:** In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS.

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**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Do not allow to enter sewerage system.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Avoid generation of dusts. Carefully take up dry. Transfer to a suitable container. Wash spillage site with water and detergent.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 of SDS.

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid the formation or spread of dust in the air. Avoid direct contact with the substance.  
Ensure there is sufficient ventilation of the area.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity. Keep away from direct sunlight.

**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	None assigned	-	-	-

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Respiratory protective device with particle filter.

**Hand protection:** Protective gloves.

**Eye protection:** Safety goggles.

**Skin protection:** Protective clothing.

**Environmental:** Prevent from entering in public sewers or the immediate environment.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** powder, fine crystalline

**Colour:** White

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**Odour:** Barely perceptible odour  
**Evaporation rate:** Negligible  
**Oxidising:** Non-oxidising (by EC criteria)  
**Solubility in water:** Soluble  
**Viscosity:** Non-viscous  
**Melting point/range°C:** 233-235  
**Flash point°C:** No data  
**Relative density:** 1.600g/cm<sup>3</sup>  
**Flammability limits %: lower:** No data  
**Autoflammability°C:** No data

**9.2. Other information**

**Other information:** Not applicable.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.

**10.4. Conditions to avoid**

**Conditions to avoid:** Direct sunlight. Moist air.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. The possibility of reaction with other substances cannot be excluded

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** No further data available.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Toxicity values:** Not applicable.

**Symptoms / routes of exposure**

**Skin contact:** Quantitative data on the toxicity of this product are not available. May be harmful if absorbed through skin.

**Eye contact:** There may be pain and redness.

**Ingestion:** Quantitative data on the toxicity of this product are not available. May be harmful if swallowed.

**Inhalation:** Quantitative data on the toxicity of this product are not available. May be harmful.

**Delayed / immediate effects:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**Other information:** RTECS: Not available 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.

**Section 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity values:** Not applicable.

**12.2. Persistence and degradability**

**Persistence and degradability:** No data available.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No data available.

**12.4. Mobility in soil**

**Mobility:** No Data Available

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This substance is not identified as a PBT substance.

**12.6. Other adverse effects**

**Other adverse effects:** Adverse ecological effects cannot be excluded in the event of improper handling or disposal. Do not allow to enter drinking water supplies, waste water, or soil!

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**Section 14: Transport information**

**14.1. UN number**

**UN number:** N/A

**14.2. UN proper shipping name**

**14.3. Transport hazard class(es)**

**14.4. Packing group**

**Packing group:** N/A

**14.5. Environmental hazards**

**Environmentally hazardous:** No

**Marine pollutant:** No

[cont...]

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**14.6. Special precautions for user**

**Special precautions:** Not dangerous goods for :ADR/RID:IMDG:IATA:

**Section 15: Regulatory information**

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

**15.2. Chemical Safety Assessment**

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.