



Safety Data Sheet

MIWON® brand L-Arginine HCL

1. Identification of the substance and of the company undertaking

Product identifier

Product name	L-Arginine HCL
CAS number	1119-34-2
EC number	214-275-1
Index number	Not applicable
Registration number	Not applicable

Relevant identified uses of the substance and uses advised against

Applications -

Details of the supplier of the safety data sheet

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Emergency telephone number

Telephone	1) +1 201 488 4010 for USA & Canada
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	3) +82 2 2220 9369 for the rest countries

2. Hazards identification

Classification of the substance according to DSD (67/548/EC)

Not hazardous according to DSD (67/548/EC)

Classification of the substance according to CLP (1272/2008/EC)

Not hazardous according to CLP (1272/2008/EC)

Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable
Hazard statements	Not applicable
Precautionary statements	Not applicable

Other hazards

Not applicable

3. Composition information on ingredients

Substance

Name of substance	L-Arginine HCL
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Concentration 100%

4. First aid measures

Description of first aid measures

After eye contact	Flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
After skin contact	Immediately wash skin with soap and flush with water.
After inhalation	Remove to fresh air If breathing becomes difficult, call a physician.
After ingestion	Wash out mouth with water provided person is conscious. Call a physician.

Most important symptoms and effects, both acute and delayed

Not determined

Indication of any immediate medical attention and special treatment needed

Not determined

5. Firefighting measures

Extinguishing media	Water spray, Carbon dioxide, dry chemical powder or foam.
Special hazards arising from the substance or mixture	Emits toxic fumes under fire conditions Wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
Advice for firefighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves
Environmental precautions	None
Methods and material for containment and cleaning up	Sweep up, place in a bag and hold for waste disposal Ventilate area and wash spill site after material pickup is complete
Reference to other sections	See precautions in section 7 and 8.

7. Handling and storage

Precautions for safe handling	Avoid raising dust Avoid inhalation Avoid contact with eyes, skin and clothing Avoid prolonged or repeated exposure
Conditions for safe storage,	Keep tightly closed and store in a cool dry place



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including any
incompatibilities
Specific end use(s) Not applicable

8. Exposure controls/personal protection

Control parameters Not applicable
Exposure controls
Respiratory protection: Respiratory protection required
Hand protection: Compatible chemical-resistant gloves
Eye protection: Chemical safety goggles
Body protection: Safety shower and eye bath
Hygiene measures: Wash thoroughly after handling
Mechanical exhaust required.

9. Physical and chemical properties

Information of basic physical and chemical properties

Physical state	White crystal or crystalline powder
Colour	White
Odour	Not determined
Odour threshold	Not determined
pH	5.5-7.0 (0.8% solution)
Melting point	226-230°C
Boiling point	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability	Not determined
Auto flammability	Not determined
Upper/lower flammability or explosive limits	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined
Vapour pressure	Not determined
% volatile by volume	Not determined
Vapour density	Not determined
Relative density	Not determined
Solubility in water	Approx. 76% in water (20°C)
Other Solvents	Not determined
Partition coefficient (n-octanol/water)	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined

Other information

No other information

10. Stability and reactivity



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Reactivity	Not determined
Chemical stability	Stable for 4 years at ambient room temperature storage conditions (Typically 15-30°C; 35-60% relative humidity)
Possibility of hazardous reactions	Hazardous polymerization will not occur
Conditions to avoid	Not determined
Incompatible materials	Strong oxidizers
Hazardous decomposition materials	Carbon monoxide, Carbon dioxide, Nitrogen oxides

11. Toxicological information

Acute toxicity	May be harmful if absorbed through the skin May be harmful if inhaled May be harmful if swallowed.
Skin corrosion/irritation	May cause skin irritation
Serious eye damage/irritation	May cause eye irritation
Respiratory or skin sensitisation	Not determined
Germ cell mutagenicity	Not determined
Carcinogenicity	Not determined
Reproductive toxicity	Not determined
STOT-single exposure	May be irritating to mucous membranes and upper respiratory tract
STOT-repeated exposure	Not determined
Aspiration hazard	Not determined
RTECS No.	CF 1995500 (L-Arginine Monohydrochloride)

12. Ecological information

Toxicity	Not determined
Persistence and degradability	Not determined
Bioaccumulative potential	Not determined
Mobility in soil	Not determined
Results of PBT and vPvB assessment	Not determined
Other adverse effects	Not determined

13. Disposal considerations

Waste treatment methods	Contact a licensed professional waste disposal service to dispose of this material Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber
List of CER codes	Allocation of the waste code numbers according EC Directive 91/692/EEC must be realized under considerations of existing sector



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specifics and processes.

14. Transport information

UN Number	None
UN proper shipping name	None
Transport hazard classes	None
Packing group	None
Environmental hazards	None
Land transport (ADR/RID)	None
Onland waterway craft (ADN/ADNR)	None
Marine transport (IMDG)	None
Air transport (IATA)	None
Special precautions for user	None
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not determined
No special requirements for transport according to international regulations.	
For more information, contact Daesang Europe bv	

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture	OEL=MAK NOHS 1974: HZD 81859; NIS 2; TNF 86; NOS 3; TNE 857 NOES 1983: HZD 81859; NIS 3; TNF 585; NOS 13; TNE 5477; TFE 2954 EPA TSCA SECTION 8(B) CHEMICAL INVENTORY
Chemical safety assessment	Not applicable

16. Other information

SDS revised on the 12th January 2011: inclusion of CLP and DSD classification according to ATP 1 of CLP regulation (1272/2008/EC) and addition of all fields as required by regulations 1907/2006/EC and 453/2010/EC.

Additional information :

This information is based on our present knowledge and is provided according to the relevant EC and national regulations. This information is intended as a characterization of the product in order to provide guidance for the relevant safety issues. However, this document does not provide any warranty, expressed or implied, regarding the properties of the product. In no event will Daesang Corp. be responsible for damages of any nature whatsoever resulting from the use of or reliance on information.