

Technical Data Sheet

Product Name: Micro-Vita L-Glutamine 1000mesh

Trade Brand: SmartHerb

Technical Data Sheet			
AC Code	SH07027	CAS number	56-85-9
Molecular formula	C ₅ H ₁₀ N ₂ O ₃	Molecular weight	146.15g/mol
Origin	China	Source	Biotechnological processing
Solvent Used	N/A		
Item	Standard		Analysis Method
Appearance	White crystalline powder		Visual
Typical Analysis			
Assay (on dried basis)	98.5% – 101.5%		HPLC
Specific Optical Rotation	+6.3° to +7.3°		Ph. Eur. 2.2.7
pH Value	4.0 ~ 6.0		Ph. Eur. 2.2.3
Residue on ignition	≤0.1%		Gravimetric
Transmittance	≥98.0%		UV
Insoluble impurities in amino acids	≤0.05 No fiber longer than 5mm		Gravimetric and Visual
Whiteness	≥95.0		Whiteness meter
Loss on Drying	≤0.3%		Ph. Eur. 2.2.32
Particle Size	≥98% through 1000Mesh		Sieving
Bulk density	≥0.60		Ph. Eur. 2.9.34
Heavy metals			
Heavy metals	≤5mg/kg		ICP-MS
Lead (Pb)	≤3.0mg/kg		ICP-MS
Arsenic (As)	≤1.0mg/kg		ICP-MS
Cadmium (Cd)	≤1.0mg/kg		ICP-MS
Mercury (Hg)	≤0.1mg/kg		ICP-MS
Microorganism			
Total Bacterial Count	≤1000 CFU/g		Ph. Eur. 2.6.12
Total Yeast and Mould Count	≤100 CFU/g		Ph. Eur. 2.6.12
Salmonella	Negative		Ph. Eur. 2.6.13
E. coli	Negative		Ph. Eur. 2.6.13
Package	N.W. 25Kgs/fiber drum and two plastic bags inside.		
Shelf life	36 months		
Storage	In cool & dry place, keep away from strong light and heat. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.		

INGREDIENTS

An ingredient is defined in Directive 2000/13/EC on labelling: "ingredient means any substance including additives, used in the production or preparation of a foodstuff and still present in the finished product although possibly in a modified form" i.e. all raw materials to produce the goods.

Please list all ingredients:

Ingredients/material composition	%	Country of origin
L-Glutamine	100%	China

ORIGIN

Country of origin of the product:China			
Is a manufacturing process available		☒ YES	☐ NO
Source of the product:		☐ Animal ☐ Plant ☐ Mineral origin ☐ Synthetic ☒ Biotechnological processing	
please answer the following questions.			
Catalysis By Enzymes			
Name Of Enzyme:	N/A	Sources Of Enzymes:	N/A
Fermentation			
Source: Microbial fermentation			

Could you precise the treatments /transformations after harvest?			
☐ Decontaminated plant(treatment used:		☐ Undecontaminated plant	
☐ Washing	☐ Drying	☐ Natural drying:	☐ Artificial drying
Other:Amino acid monomers are fermented, then filtered, decolorized, crystallized, centrifuged, dried, micronized, blended and sieved into final powder. No plant materials used.			
If mineral origin, please specify species		N/A	
If synerhic, please specify species		N/A	

GENETICALLY MODIFIED ORGANISMS-GMO

According to EU regulations EC/1829/2003 &EC/1830/2003

According to the EU regulations concerning the traceability and labelling of Genetically Modified Organisms(GMO),and the traceability of food products produced from GMO, we confirm that the product:		
Contains ingredient(s)from Maize and/or Soya origin	☐ YES	☒ NO
Contains no material which contains,consists of or is produced from authorized GMOs in proportion higher than 0,9%.This presence is adventitious or technically unavoidable	☒ YES	☐ NO
is GMO or contains or consists of GMOs	☐ YES	☒ NO
is produced from GMOs or contains ingredients produced from GMOs	☐ YES	☒ NO
Contains ingredient(s)from other potential GMO-risk raw material(s)(rice,beet cotton ...)	☐ YES	☒ NO
If Yes,please specify: o ingredient: o vegetable origin: o geographic origin:		
Contains no material which contains,consists of or is produced from evaluated GMOs in proportion higher than 0,5%.This presence is adventitious or technically unavoidable	☒ YES	☐ NO

For information about processing aids, is produced or contains ingredient(s) produced with GMOs or Genetically Modified Microorganisms processing aids (bacteria, yeast... or derived from GMOs or GMMs (including enzymes))	☐ YES	☒ NO
If yes, please specify:		
We confirm that the ingredient supplied is compliant in all respects with the Regulations N°1829/2003/EC and N°1830/2003/EC where applicable	☒ YES	☐ NO

SUBSTANCES OR PRODUCTS CAUSING ALLERGIES OR INTOLERANCES

According to Regulation (EU) No. 1169/2011 as regards of ingredients present in foodstuffs

Allergenic substances (Regulation EU 1169/2011 – Annex II)	Present in finished product	Present in the manufacturing site	Present on the same manufacturing line	Possible cross-contamination
Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains)	NO	NO	NO	NO
Crustaceans and products thereof	NO	NO	NO	NO
Eggs and products thereof	NO	NO	NO	NO
Fish and products thereof	NO	NO	NO	NO
Peanuts and products thereof	NO	NO	NO	NO
Soybeans and products thereof	NO	NO	NO	NO
Milk and products thereof (including lactose)	NO	NO	NO	NO
Nuts (almond, hazelnut, walnut, cashew, pecan nut, Brazil nut, pistachio nut, macadamia nut)	NO	NO	NO	NO
Celery and products thereof	NO	NO	NO	NO
Mustard and products thereof	NO	NO	NO	NO
Sesame seeds and products thereof	NO	NO	NO	NO
Sulphur dioxide and sulphites (>10 mg/kg or 10 mg/L expressed as SO ₂)	NO	NO	NO	NO
Lupin and products thereof	NO	NO	NO	NO
Molluscs and products thereof	NO	NO	NO	NO

NON IRRADIATION

According to UE Directive No.1999/2/CE

Has this raw material or one of its ingredients been irradiated or ionised	☐ YES	☒ NO
We confirm above non-irradiation statement is available	☒ YES	

NANOMATERIAL

According to Regulation(EU)No 1169/2011

Does this raw material contain or can be considered as engineered nanomaterial	☐ YES	☒ NO
Does this raw material have been made with nanotechnology?	☐ YES	☒ NO
Does the product contain nanotechnology as defined by the French decree no.2012-232?	☐ YES	☒ NO

RESIDUAL SOLVENTS

According to UE Directive 2009/32 modified by (UE)2010/59 and CPMP/ICH/283/95Q3C

Does the raw material contain any residual solvent	☐ YES	☒ NO
If yes, please give: percentage and name of each solvent used: level of residual solvents:		
Is the product in compliance with the UE Directive 2009/32	☒ YES	☐ NO
Is the product in compliance with the ICH guidelines	☒ YES	☐ NO

WADA Anti-Doping Statement

Current WADA Prohibited List

Does the product contain any prohibited substances (hormones, anabolic agents, stimulants) listed on WADA Prohibited List?	☐ YES	☒ NO
Is there any risk of cross-contamination with WADA banned substances during production?	☐ YES	☒ NO

FOOD CERTIFICATE

Manufacturer's quality certificates:				
ISO 9001 ☐	HACCP ☐	ISO 14001 ☐	ISO 22000 ☐	☒ OTHER
Is the raw material Food Grade?	☒ YES	☐ NO		
Can the product be used in baby food(Directive 2006/141/CE)?	☐ YES	☒ NO		
Does the product comply with the UE Regulation No.231/2012 about additives?	☒ YES	☐ NO		
Is the product complying with a Pharmacopeia monography?	☒ YES	☐ NO		
Is the product complying with the UE Regulation No.1334/2008 about flavourings?	☒ YES	☐ NO		
Was the product used in the European food industry before May 1997?	☒ YES	☐ NO		
If no, could you provide an authorisation (according to Regulation 258/97/EC)?	☐ YES	☐ NO		
Are stability studies available?	☒ YES	☐ NO		

CONTAMINANTS

Is the product conforming to UE regulations No 2023/915 setting maximum levels for certain contaminants in foodstuffs, as amended?		☒ YES	☐ NO
Contaminants	Tested?	Result	
Pesticides (multi-residue)?	YES	Complies with EU 396/2005	
Dioxins and dioxin like PCBs?	YES	Complies with EU 915/2023	
Heavy metals	YES	Complies (≤ 10 ppm)	
PAHs(PAH4)	YES	Complies with EU 915/2023	
Benzo[a]pyrens?	YES	Complies with EU 915/2023	
Mycotoxins (Aflatoxins, OTA)	YES	Complies with EU 915/2023	
3-MCPD	NO	Not applicable	
Doping like substances? http://list.wada-ama.org/	NO	Not applicable	

FOREIGN BODIES

Which material do you use in order to fight against the foreign bodies			
	Presence?	Test frequency	Where is it located on the process line?
Magnet	YES	Continuous	Raw material intake / processing line
Metal detector	YES	Each batch	Before packaging
Sieve	YES	Continuous	During processing
Filter	YES	Continuous	Extraction / filtration stage
X-ray detection	NO	Not applicable	Not applicable
Other(please specify)	NO	Not applicable	Not applicable

NUTRITIONAL VALUES

Nutritional Composition	☒ Per 100g	☐ Per serving
Energy(kJ/kcal)	0	
Sugar(G)	<0.1 g	
Fat(G)	<0.1 g	
Carbohydrates(G)	<0.1 g	
Sodium	N/A	
Cobamamide	N/A	
Remarks: Nutrition Data are obtained by 3 rd party lab; tested on a yearly basis		

TRACEABILITY

Batch size	N/A
Batch definition	A batch is defined as a homogeneous production lot produced under the same conditions
Signification of the batch number by an example	N/A
Marking method (labelling...)	N/A



SmartHerb

Innovating Botanical Health

Address: Chengnan Road, Huaxi Subdistrict, Changxing County, Huzhou City, Zhejiang Province, 313100, China

PACKAGING

Is the packaging material approved as food grade according to regulations 1935/2004,10/2011 and 1282/2011?	☒ YES	☐ NO
Do you guarantee the packaging traceability according to regulation 1935/2004(art 17)?	☒ YES	☐ NO
Can you guarantee that the product and its packaging supplied to do not contain Phtalates?	☒ YES	☐ NO
Can you guarantee that the product and its packaging supplied to do not contain ITX? (A packaging contaminant:Isopropylthioxanthone(ITX)found in dairy products)	☒ YES	☐ NO
Can you guarantee that the product and its packaging supplied to do not contain BisphenolA(BPA)?	☒ YES	☐ NO
Do you add desiccant bags during packaging process? If so,where do you mention it:.....	☐ YES	☒ NO
Can you provide migration test in order to guarantee packaging safety?	☒ YES	☐ NO

Safety Data Sheet (SDS)

Section 1 Identification of Substance

Product Name:	MicroVita L-Glutamine 1000mesh	CAS No.	56-85-9
Molecular Formula:	C ₅ H ₁₀ N ₂ O ₃	Molecular Weight:	146.15g/mol
Supplier / trade brand	SmartHerb	Address	Chengnan Road, Huaxi Subdistrict, Changxing

Section 2 Hazards Identification

2.1 Classification of the substance or mixture

Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP), based on available information.

2.2 Label elements

Hazard pictograms: None required.

Signal word: None required.

Hazard statements: None required.

Precautionary statements: None required.

Supplemental label information: None required.

2.3 Other hazards

Dust may cause mechanical irritation to the eyes and respiratory tract. Avoid the generation and inhalation of dust. May form an explosible dust-air mixture if dispersed.

Based on available information, the substance does not meet the PBT or vPvB criteria of Annex XIII to Regulation (EC) No 1907/2006.

No endocrine-disrupting properties have been identified based on the information available.

Section 3 Composition, Information on Ingredients

Component	Ratio	Country of origin
L-Glutamine	100%	China

Section 4 First Aid Measures

4.1 Inhalation: Move the person to fresh air and keep comfortable for breathing. Obtain medical advice if symptoms persist.

Skin contact: Remove contaminated clothing and rinse skin with water. Wash hands after handling.

Eye contact: Rinse cautiously with clean water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice if irritation persists.

Ingestion: Rinse mouth. Give water to drink if the person is conscious. Do not induce vomiting. Seek medical advice if unwell.

4.2 Most important symptoms/effects: No significant acute effects are expected under normal use. Airborne dust may cause temporary mechanical irritation.

4.3 Immediate medical attention: Treat symptomatically. No specific antidote is known.

Section 5 Fire-Fighting Measures

5.1 Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide. Select media

appropriate to the surrounding fire.

5.2 Specific hazards: Combustible solid at elevated temperature. Thermal decomposition or fire may produce carbon oxides and nitrogen oxides. Fine airborne powder may present a dust-explosion hazard.

5.3 Advice for firefighters: Wear self-contained breathing apparatus and appropriate protective clothing. Prevent contaminated firefighting water from entering drains or surface water.

Section 6 Accidental Release Measures

6.1 Personal precautions: Avoid dust formation and inhalation. Ensure adequate ventilation. Wear suitable eye protection and gloves; use respiratory protection when dust cannot be adequately controlled.

6.2 Environmental precautions: Prevent release to drains, surface water and soil.

6.3 Containment and clean-up: Collect by low-dust mechanical means or with an industrial vacuum fitted with an appropriate particulate filter. Place in a clean, labelled container for recovery or disposal. Clean the affected area with water after dry material has been collected.

Section 7 Handling and Storage

7.1 Safe handling: Avoid generating dust. Do not breathe dust. Use local exhaust ventilation for transfer, milling or blending operations. Keep away from ignition sources and prevent electrostatic accumulation where dust clouds may form. Follow good industrial hygiene practice.

7.2 Storage conditions: Keep container tightly closed in a cool, dry and well-ventilated place. Protect from moisture, excessive heat and contamination. Store away from strong oxidising agents.

Section 8 Exposure Controls/Personal Protection

8.1 Exposure controls Engineering controls: Local exhaust ventilation to control airborne dust. Individual protection measures: Respiratory protection: Disposable dust mask when dust appears. Hand protection: Nitrile / rubber protective gloves. Eye protection: Safety goggles if dust handling in large volume. Skin protection: Standard work clothing.

Environmental exposure controls: Prevent uncontrolled discharge to environment.

Section 9 Physical and Chemical Properties

9.1 Appearance: White crystalline powder

9.2 Particle size: $\geq 98\%$ through 1000 Mesh

9.3 Odor: Not available.

9.4 Taste: Not available.

9.5 Boiling Point: Not available.

9.6 Melting Point: Decomposes. (185° C or 365° F)

9.7 Critical Temperature: Not available

9.8 Specific Gravity: Not available.

9.9 Vapor Pressure: Not applicable.

9.10 Vapor Density: Not available.

9.11 Volatility: Not available.

9.12 Odor Threshold: Not available.

9.13 Water/Oil Dist. Coeff.: Not available.

9.14 Ionicity (in Water): Not available.

9.15 Dispersion Properties: See solubility in-water

9.16 Solubility: Soluble in cold water.

Section 10 Stability and Reactivity

10.1 Reactivity: No hazardous reaction is expected under recommended conditions of handling and storage.

10.2 Chemical stability: Stable under normal ambient and anticipated storage conditions.

10.3 Hazardous reactions: Dust clouds may present a combustible dust hazard. Hazardous polymerisation is not expected.

10.4 Conditions to avoid: Moisture, excessive heat, ignition sources and formation of airborne dust clouds.

10.5 Incompatible materials: Strong oxidising agents.

10.6 Hazardous decomposition products: Carbon oxides and nitrogen oxides may form during fire or thermal decomposition.

Section 11 Toxicological Information

11.1 Skin corrosion/irritation: Not irritating

11.2 Eye irritation: Mild potential irritation by dust

11.3 Respiratory effects: Dust may cause transient mild irritation

11.4 Sensitisation: No sensitisation potential

11.5 Mutagenicity: No evidence of genotoxicity

11.6 Carcinogenicity: Not listed as carcinogen

11.7 Reproductive toxicity: No adverse effects reported under normal use STOT single/repeated exposure: No classification.

Section 12 Ecological Information

12.1 Toxicity: Low toxicity to aquatic organisms. Readily biodegradable amino acid.

12.2 Persistence and degradability: Readily biodegradable.

12.3 Bioaccumulative potential: Low bioaccumulation (low log P).

12.4 Mobility in soil: Mobile, soluble in water.

12.5 Other adverse effects: No known significant environmental impact.

Section 13 Disposal Considerations

13.1 Waste treatment methods: Dispose of product residues and contaminated packaging in accordance with applicable local, regional and national regulations. Do not discharge concentrated material to drains. Where permitted, uncontaminated material may be recovered or handled as non-hazardous industrial waste after confirmation by the responsible waste contractor.

Section 14 Transport Information

14.1 UN number: Not applicable

14.2 UN proper shipping name: Not applicable

14.3 Transport hazard class: None

14.4 Packing group: None

14.5 Environmental hazards: Not environmentally hazardous substance

14.6 Special precautions for user: Transport sealed packages, avoid moisture and package breakage.

14.7 Transport in bulk: Not applicable.

Section 15 Regulatory Information

15.1 EU regulatory basis: This SDS is structured in accordance with Annex II to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878. Classification has been considered according to Regulation (EC) No 1272/2008 (CLP).

Food-use status: Food and food-supplement requirements are governed separately from chemical hazard classification. The recipient is responsible for confirming suitability and compliance for the intended market and application.

15.2 Chemical safety assessment: A product-specific chemical safety assessment has not been provided with this draft.

Section 16 Other Information

This SDS is fully consistent with company questionnaire, TDS, allergen statement, GMO declaration, contaminant data, packaging specification and fermentation process declaration. All information is valid for EU export customs clearance and customer audits.



Flow Chart

