

Technical Data Sheet

Product Name: Micro-Vita HMB CA 1000mesh

Trade Brand: SmartHerb

Technical Data Sheet			
AC Code	SH07032	CAS number	135236-72-5
Molecular formula	Ca(C ₅ H ₉ O ₃) ₂ • H ₂ O	Molecular weight	292.34 g/mol
Origin	China	Source	Synthetic chemical
Solvent Used	Water		
Item	Standard		Analysis Method
Appearance	White crystal or crystalline white powder		Visual
Typical Analysis			
Total Content	Not less than 99.0%		HPLC
HMB Assay	Not less than 84.0%		HPLC
Ca Assay	13.5–14.5%		ICP-OES
Loss on drying	Not more than7.0%		EP 2.2.32
Particle size	≥98% passes through 1000 mesh		Sieve analysis
Heavy metals			
Heavy metals	Not more than 10 mg/kg		ICP-MS
Lead (Pb)	Not more than 3.0 mg/kg		ICP-MS
Arsenic (As)	Not more than 1.0 mg/kg		ICP-MS
Cadmium (Cd)	Not more than 1.0 mg/kg		ICP-MS
Mercury (Hg)	Not more than 0.1 mg/kg		ICP-MS
Microorganism			
Total Bacterial Count	Not more than 1000 CFU/g		Ph. Eur. 2.6.12
Total Yeast and Mold Count	Not more than 50 CFU/g		Ph. Eur. 2.6.12
Salmonella	Negative		Ph. Eur. 2.6.13
E. coli	Negative		Ph. Eur. 2.6.13
Staphylococcus aureus	Negative		Ph. Eur. 2.6.13
Package	N.W. 25Kgs/fiber drum and two plastic bags inside.		
Shelf life	24 months		
Storage	Store in a tightly closed container.Store in a cool,dry,well-ventilated area away from incompatible substances.		

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
Calcium β-Hydroxy-β-Methylbutyrate Monohydrate	100%	China
N/A	N/A	N/A
N/A	N/A	N/A

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.			
Starting material:	Diacetone Alcohol, Calcium Hydroxide	Origin:	China

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)	Present in finished product	Present in the manufacturing	Present on the same manufacturing line	Possible cross-contamination
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Address: Chengnan Road, Huaxi Subdistrict, Changxing County, Huzhou City, Zhejiang Province, 313100, China

– Annex II)		site		
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

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

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

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 No231/2012 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)	Approx.1050 kJ / 250 kcal	
Calcium	13.5–14.5%	
Vitamins:	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

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:	Micro-Vita HMB CA 1000mesh	CAS No.	36397-63-4
Molecular Formula:	Ca(C ₅ H ₉ O ₃) ₂ ·H ₂ O	Molecular Weight:	292.34 g/mol
Supplier / trade brand	SmartHerb	Address	Chengnan Road, Huaxi Subdistrict, Changxing

Section 2 Hazards Identification

2.1 Eye contact: Airborne dust or direct contact may cause temporary mechanical irritation.

2.2 Skin contact: Contact with dust may cause temporary mechanical irritation.

2.3 Inhalation: Inhalation of dust may cause temporary irritation of the respiratory tract. Move the affected person to fresh air if symptoms occur.

2.4 Ingestion: Ingestion of large amounts may cause gastrointestinal discomfort. No adequate product-specific acute oral toxicity data are available.

2.5 Chronic effects: No adequate product-specific information on chronic or delayed health effects is available.

2.6 Target organs: No adequate product-specific data are available.

Section 3 Composition, Information on Ingredients

Component	Ratio	Country of origin
Calcium β-Hydroxy-β-Methylbutyrate Monohydrate	100%	China

Section 4 First Aid Measures

4.1 Description of first-aid measures

General	Remove affected person from exposure. Show this safety data sheet to medical personnel. Treat symptomatically.
Inhalation	Move to fresh air and keep at rest in a position comfortable for breathing. Obtain medical advice if irritation, coughing or breathing difficulty persists.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Obtain medical advice if irritation develops.
Eye contact	Rinse cautiously with clean water for at least 15 minutes, including under the eyelids. Remove contact lenses if present and easy to do. Continue rinsing and obtain medical advice if irritation persists.
Ingestion	Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice if a large quantity is swallowed or symptoms occur.
First-aid protection	Avoid exposure to dust. Use personal protective equipment appropriate to the situation.

4.2 Most important symptoms and effects, both acute and delayed

Eye irritation, redness and discomfort. Inhalation of dust may irritate the nose, throat and respiratory tract.

4.3 Indication of immediate medical attention and special treatment

Treat symptomatically. No specific antidote is known.

Section 5 Fire-Fighting Measures

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide, selected for the surrounding fire.
Unsuitable media	No specific restriction identified. Do not use a water jet where it may spread contaminated material.
Special hazards	Thermal decomposition or combustion may produce carbon oxides and calcium oxide-containing fumes.

Advice for firefighters	Wear self-contained breathing apparatus and full protective equipment. Prevent contaminated fire-fighting water from entering drains or surface water where practicable.
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Section 6 Accidental Release Measures

Personal precautions	Avoid generating or breathing dust. Keep unnecessary personnel away. Wear suitable eye protection, gloves and respiratory protection where dust is generated.
Environmental precautions	Prevent significant quantities from entering drains, surface water or soil.
Containment and clean-up	Collect with a HEPA-filtered industrial vacuum or by gentle mechanical means. Do not use compressed air. Place material in a closed, labelled container for recovery or disposal. Wash residual traces with water where appropriate.

Section 7 Handling and Storage

Safe handling	Minimise dust generation. Provide adequate general or local exhaust ventilation. Avoid contact with eyes and prolonged skin contact. Do not eat, drink or smoke in the work area. Wash hands after handling.
Storage conditions	Store in the original, tightly closed container in a cool, dry and well-ventilated place. Protect from moisture, high humidity, direct sunlight and excessive heat. Keep separate from strong acids and strong oxidising agents.
Specific end use	Food-supplement ingredient for professional manufacturing use.

Section 8 Exposure Controls/Personal Protection

8.1 Control parameters

Occupational exposure limits	No substance-specific occupational exposure limit was identified in the available information. Apply applicable national limits for nuisance/inert dust where relevant.
Biological limit values	No data available.

8.2 Exposure controls

Engineering controls	Use enclosure or local exhaust ventilation at operations that generate dust. Provide access to eyewash facilities.
Eye/face protection	Safety glasses with side shields or chemical splash goggles conforming to EN 166, selected according to the workplace risk assessment.
Hand protection	Suitable protective gloves. Select glove material and breakthrough time in consultation with the glove supplier; EN ISO 374 where applicable.
Skin protection	Clean work clothing or protective clothing suitable for the degree of exposure.
Respiratory protection	Where dust cannot be adequately controlled, use a properly fitted particulate respirator such as EN 149 FFP2 or equivalent, in accordance with local requirements.
Hygiene measures	Wash hands after handling. Remove contaminated clothing. Do not eat, drink or smoke in work areas.
Environmental controls	Avoid uncontrolled release of significant quantities to the environment.

Section 9 Physical and Chemical Properties

Appearance: White crystal or crystalline white powder

Flammability: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Solubility in water: Not available

Density: Not available

Flash Point: Not applicable

Particle size: $\geq 98\%$ passes through 1000 mesh

Section 10 Stability and Reactivity

Reactivity	No hazardous reaction is expected under recommended handling and storage conditions.
Chemical stability	Expected to be stable under recommended storage conditions. Protect from moisture.
Hazardous reactions	No hazardous polymerisation is expected. Contact with strong acids may convert the calcium salt to the corresponding free acid.
Conditions to avoid	Moisture, high humidity, excessive heat, direct sunlight and formation of airborne dust.
Incompatible materials	Strong acids and strong oxidising agents.
Decomposition products	Carbon oxides and calcium oxide-containing fumes may form on strong heating or combustion.

Section 11 Toxicological Information

11.1 Acute toxicity: No adequate product-specific data are available.

Skin corrosion/irritation: Not classified; only mild mechanical dust irritation possible.

Eye damage/irritation: Not classified; dust may lead to transient mechanical irritation.

Respiratory or skin sensitisation: No adequate product-specific data are available.

Germ cell mutagenicity: No adequate product-specific data are available.

Carcinogenicity: No adequate product-specific data are available.

Reproductive toxicity: No adequate product-specific data are available.

STOT — single exposure: Product-specific classification must be confirmed. Dust may cause temporary respiratory irritation.

STOT — repeated exposure: No adequate product-specific data are available.

Aspiration hazard: Not applicable to the product in solid form.

Likely routes of exposure: Inhalation of dust, eye contact, skin contact and ingestion.

Symptoms and delayed effects: Airborne dust may cause temporary mechanical irritation. No adequate product-specific information on delayed or chronic effects is available.

Section 12 Ecological Information

12.1 Toxicity: No adequate product-specific ecotoxicity data are available.

12.2 Persistence and degradability: No adequate product-specific biodegradation data are available.

12.3 Bioaccumulative potential: No adequate product-specific bioaccumulation data are available. Significant bioaccumulation is not expected based on the available information.

12.4 Mobility in soil: No adequate product-specific soil adsorption or mobility data are available.

12.5 Results of PBT and vPvB assessment: Based on the available information, the substance is not expected to meet the PBT or vPvB criteria. Confirm against any applicable chemical safety assessment.

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

12.7 Other adverse effects: No additional significant environmental effects are known based on the available information. Avoid uncontrolled release to the environment.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product: Recycle if feasible. Dispose via licensed waste operators in compliance with local and national environmental regulations. Contaminated packaging: Empty packaging may be recycled after thorough cleaning. Do not discharge product into drains or the open environment.

Section 14 Transport Information

This substance is NOT dangerous goods under ADR/RID, IMDG, IATA regulations. UN number: Not allocated Proper shipping name: Not applicable Transport hazard class: None Packing group: None Environmental hazards: Not classified Transport in bulk: Not relevant Special precautions: Protect packaging against moisture ingress.

Section 15 Regulatory Information

15.1 EU regulations



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Innovating Botanical Health

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

REACH: Substance not registered under REACH; supplied as food raw material. CLP (EC 1272/2008): Not classified as hazardous substance. Regulation (EU) No 1169/2011: Contains no Annex II allergenic substances. Regulation (EU) 2023/915: Complies with contaminant limit requirements for food materials. Not an engineered nanomaterial. Not derived from GMO raw materials.

15.2 Chemical safety assessment

A Chemical Safety Assessment (CSA) has not been performed for this substance.

Section 16 Other Information

This SDS is issued based on the latest official test data and industry standard specifications for Micro-Vita HMB CA 1000mesh .
All contents are for safety guidance only.

Flow Chart

