



SmartHerb

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

Manufacturer: SmartHerb

Technical Data Sheet

Technical Data Sheet			
Product name	LipoVida™ Liposomal Quercitrin 50%	Trade Brand	SmartHerb
AC Code	SH26101001a	CAS number	522-12-3
Molecular formula	C ₂₁ H ₂₀ O ₁₁	Molecular weight	448.38 g/mol
Item	Standard	Result	Method of analysis
Assay	50%	51%	HPLC
Appearance	Light Yellow Green Powder	Conforms	Visual
Odor	Characteristic odour	Conforms	Organoleptic
Mesh Size	100% pass 60 mesh	Conforms	Mesh screen or equivalent
Grain Size	100-300 nm	Conforms	Electron micrographs
Loss on Drying	≤8%	4.33%	Eur.Ph.7.0 [2.8.17]
Ash	≤5%	1.21%	Eur.Ph. <2.4.16>
Heavy metals			
Total Heavy Metals	≤10 ppm	Conforms	ICP-MS or equivalent or GB
As	≤1 ppm	0.10 ppm	ICP-MS or equivalent or GB
Pb	≤2 ppm	0.10 ppm	ICP-MS or equivalent or GB
Cd	≤1 ppm	0.09 ppm	ICP-MS or equivalent or GB
Hg	≤0.1 ppm	0.005 ppm	ICP-MS or equivalent or GB
Microorganism			
Total Plate Count	≤1000 cfu/g	Conforms	AOAC or equivalent or GB
Yeast and Mold	≤100 cfu/g	Conforms	AOAC or equivalent or GB
Coliforms	Negative	Negative	AOAC or equivalent or GB
E. coli	Negative	Negative	AOAC or equivalent or GB
Staphylococcus	Negative	Negative	AOAC or equivalent or GB
Salmonella	Negative	Negative	AOAC or equivalent or GB
Standard	Conforms with specification.		
Storage	Store in cool place. Keep container tightly closed in a dry and well- ventilated place. Recommended storage temperature: -20 °C		
Packing	Pack in 20 kg paper-drums, inner by double plastic bag.		
Shelf life	24 months under the above condition, and in it's original package.		

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:



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Ingredients/material composition	%	Country of origin
Liposomal Quercitrin 50%	50	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			
Ingredient Name: Liposomal Quercitrin 50%			
Starting material	Quercitrin	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

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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 shellfish-derived products (including gelatine)	NO	NO	NO	NO
Peanuts and products thereof	NO	NO	NO	NO
Soybeans and products thereof (including lecithin)	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, Macadamia Nut (including oil), Pine nuts (including oil))	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
Buckwheat and products thereof	NO	NO	NO	NO
Cashew nutshell (including oil)	NO	NO	NO	NO
Bee pollen, propolis, royal jelly and products thereof	NO	NO	NO	NO
Latex	NO	NO	NO	NO
Lupines (lat. Lupinus) and products thereof	NO	NO	NO	NO
Peach (including oil)	NO	NO	NO	NO
Mango (including oil)	NO	NO	NO	NO
Pork and products thereof	NO	NO	NO	NO
Shellfish and similar products	NO	NO	NO	NO
Tomato 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



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Does the product contain nanotechnology as defined by the French decree no.2012-232?	☐ YES	☒ NO
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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(Regulation No231/2012/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 2015/2283/EC)?	☐ YES	☐ NO		
Are stability studies available?	☒ YES	☐ NO		

CONTAMINANTS

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

NUTRITIONAL VALUES

Nutritional Composition	Per 100g	Per serving
Energy(kJ/kcal)	1850 kJ / 450 kcal	
Total Fat(g)	50g	
Total Carbohydrate(g)	0	



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Fibre(g)	0
Protein(g)	0
Salt(g)	0
Vitamins:	0
Minerals:	0

Safety Data Sheet (SDS)

Section 1 Identification of Substance			
Product Name	Liposomal Quercitrin 50%	CAS No.	522-12-3
Molecular Formula	C ₂₁ H ₂₀ O ₁₁	Molecular Weight	448.38 g/mol
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Section 2 Hazards Identification			
2.1 Classification: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. Not classified as dangerous according to Directive 67/548/EEC.			
2.2 Label elements: The product does not need to be labelled in accordance with EC directives or respective national laws.			
2.3 Other hazards: None.			
Section 3 Composition / Information on Ingredients			
3.1 Substance: Quercitrin. Formula: C ₂₁ H ₂₀ O ₁₁ . Molecular weight: 448.38 g/mol. CAS No.: 522-12-3.			
No components need to be disclosed according to the applicable regulations.			
Section 4 First Aid Measures			
4.1 Inhalation: Move the person into fresh air. If not breathing, give artificial respiration.			
Skin contact: Wash with soap and plenty of water. Eye contact: Flush eyes with water as a precaution.			
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.			
4.2 Most important symptoms and effects, acute and delayed: See product labelling and Section 11.			
4.3 Immediate medical attention and special treatment: No data available.			
Section 5 Fire-Fighting Measures			
5.1 Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
5.2 Special hazards: Carbon oxides, nitrogen oxides (NO _x) and oxides of phosphorus.			
5.3 Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.			
5.4 Further information: No data available.			
Section 6 Accidental Release Measures			
6.1 Personal precautions: Avoid dust formation and breathing vapours, mist or gas. See Section 8 for personal protection.			
6.2 Environmental precautions: Do not let product enter drains.			
6.3 Cleanup: Sweep up and shovel. Keep in suitable, closed containers for disposal.			
6.4 Reference to other sections: See Section 13 for disposal.			
Section 7 Handling and Storage			

7.1 Safe handling: Provide appropriate exhaust ventilation where dust is formed. See Section 2.2 for precautions.

7.2 Safe storage: Store in a cool place in a tightly closed container in a dry, well-ventilated place. Recommended storage temperature: -20°C .

7.3 Specific end use: No other specific uses are stipulated beyond those mentioned in Section 1.2.

Section 8 Exposure Controls / Personal Protection

8.1 Control parameters: Components with workplace control parameters.

8.2 Engineering controls: Follow general industrial hygiene practice.

Eye/face protection: Use eye protection tested and approved under applicable standards, such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Inspect gloves before use and use proper removal technique. Dispose of contaminated gloves according to applicable laws and good laboratory practice. Wash and dry hands. Gloves should meet applicable specifications such as EN 374.

Body protection: Select body protection according to the type, concentration and amount of substance and the specific workplace.

Respiratory protection: Not required. For nuisance dust, use a type N95 (US) or P1 (EN 143) dust mask. Use equipment approved under applicable standards.

Environmental exposure controls: Do not let product enter drains.

Section 9 Physical and Chemical Properties

Appearance: Powder. Colour: Light yellow-green.

Odour, odour threshold, pH, melting/freezing point, boiling point/range, flash point, evaporation rate, flammability, explosive limits, vapour pressure/density, relative density, water solubility, partition coefficient, auto-ignition temperature, decomposition temperature, viscosity, explosive properties and oxidizing properties: No data available.

Other safety information: No data available.

Section 10 Stability and Reactivity

10.1 Reactivity: No data available. 10.2 Chemical stability: Stable under recommended storage conditions. 10.3 Hazardous reactions: No data available.

10.4 Conditions to avoid: No data available. 10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: No data available. In case of fire, see Section 5.

Section 11 Toxicological Information

Acute toxicity: No data available. LD₅₀, intraperitoneal, mouse: 4.333 mg/kg.

Skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitisation, germ cell mutagenicity, reproductive toxicity, STOT single/repeated exposure and aspiration hazard: No data available.

Carcinogenicity: IARC does not identify any component at $\geq 0.1\%$ as a probable, possible or confirmed human carcinogen.

Additional information: RTECS UU345000. The chemical, physical and toxicological properties have not been thoroughly investigated.

Section 12 Ecological Information

Toxicity, persistence and degradability, bioaccumulative potential, mobility in soil and other adverse effects: No data available.

PBT/vPvB assessment: Not available; chemical safety assessment not required or not conducted.



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Section 13 Disposal Considerations

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging: Dispose of as unused product.

Section 14 Transport Information

14.1 UN number: ADR/RID, IMDG and IATA: —.

14.2 UN proper shipping name: Not dangerous goods under ADR/RID, IMDG and IATA.

14.3 Transport hazard class: — under ADR/RID, IMDG and IATA. 14.4 Packing group: — under ADR/RID, IMDG and IATA.

14.5 Environmental hazards: No under ADR/RID, IMDG and IATA.

14.6 Special precautions for user: No data available.

Section 15 Regulatory Information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Specific safety, health and environmental regulations: No data available. 15.2 Chemical safety assessment: Not carried out for this product.

Section 16 Other Information

The information is believed to be correct but is not all-inclusive and is intended only as a guide. It is based on current knowledge and applies to the product with regard to appropriate safety precautions; it does not represent a guarantee of product properties.

Flow Chart

