

GENERAL SPECIFICATION

Siberian Ginseng EP (0,8% eleutherosides)

ELEP08-w

General Information			
Productcode	ELEP08-w	Quality assurance:	NORMAL
Batch code	HJ...		
Best before		
Substance	Siberian Ginseng EP (0,8% eleutherosides)		
Species / Scientific name	Eleutherococcus senticosus		
Plant part used / Identification	Stems		
Appearance	Brown yellow fine powder		
Flavor / Aroma	Characteristic		Taric custom code: 1302.1970.00
Country of Origin	China		

Analyses	Specification	Results
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Composition specification		
Eleutherosides B&E	≥ 0,8 % HPLC	
Extract ratio	25 : 1	
Extraction solvent	ethanol/water	
Identification by TLC	complies	

Physical Property		
Solubility	water soluble	
Loss on Drying	≤ 5%	
Particle Size	≥ 95% through 100 mesh	
Bulk density	0.30 - 0.50 g/ml	

Chemical Property		
Heavy Metals	≤ 10 ppm	
Lead (Pb)	≤ 3 ppm	
Arsenicum (As)	≤ 2 ppm	
Cadmium (Cd)	≤ 1 ppm	
Mercury (Hg)	≤ 0,1 ppm	
PAH's:	sum 4 PAH's	≤ 50 ppb
	benzo(a)pyrene	≤ 10 ppb
Pesticides	Reg. 396/2005 CE	

Microbiological Tests		
Total Plate Count	≤ 10.000 cfu/g	
Yeast & Mold	≤ 1.000 cfu/g	
E. Coli	Negative	
Salmonella	Negative	
Staphylococcus aureus	Negative	

Typical nutritional values (per 100 grams)		Source: data provided by manufacturer	
Energy (kJ)	191 kCal / 808 kJ	Total proteins (%)	19
Total carbohydrates (%)	23	Sugar (%)	9
Fat (%)	1,2	Dietary fibers (%)	6,2
Saturated Fat (%)	0,18	Sodium (%)	0,045

Directions for use	See: https://www.benseng.com/product/product-siberische-ginseng-en.php
Statement	Allergens free according ALBA-list. Pah's and pesticides only controlled by random re-testing. Non-GMO. Manufacturer is HACCP and ISO22000-2005 certified by SGS, Zurich, Switzerland.
Storage	Store in a cool dry place, avoiding sunlight directly.
Shelf Life	At least 3 years when stored properly.
Standard packaging	Food grade multi-layer polyethylene bags, 25kg in one cardboard drum

cfu= colony forming units

ppm= parts per million

n.d. = not detectable

As stated by our supplier

The manufacturer/supplier of this product or ingredient is carefully selected according HACCP-principles. Nevertheless this data is purely informative and does not absolve you of the need to check the goods for (specific) use yourself. You remain fully and at all times responsible for the product, the purpose for or in which it is used and the possible consequences in which it can result. Under no circumstances Benseng International BV can be held responsible for the application of it's products in violation with existing regulations and/or licenses. Except per contractual agreement, this data sheet is subject to change without prior notice. Benseng International BV's policy is to prevent any genetic modification of it's products or their ingredients.

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STATEMENTS

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NANOMATERIAL

This product does not contain nanomaterials as defined by Regulation (EC) N° 1169/2011.

NON IRRADIATION

This raw material or one of its ingredients has not been irradiated or ionised according to Directive N° 1999/2/CE.

BSE-TSE

This product is BSE/TSE free according regulation (CE) 220/2009.

GENETICALLY MODIFIED ORGANISMS – GMO

This ingredient is compliant in all respects with the Regulations N°1829/2003/EC and N°1830/2003/EC where applicable.

ALLERGENS

This ingredient does not contain substances or products causing allergies or intolerances according Regulation (EU) N° 1169/2011

PRODUCT SOURCE

This ingredient is manufactured from herbal material, so has vegetable origin.

No animal containing ingredients are used in any part of the manufacturing process according Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

VEGETARIANS/VEGANS:

This product is suitable for Vegetarians, because: "it is free of all animals and fish products and derivatives thereof, except maybe for honey, egg, milk and milk products". It is also suitable for Vegans, because: "no products are issued from animals, including honey, egg, milk, and milk products".

ANIMAL TESTING

This product has not been the subject of animal testing according EU Cosmetic Regulation (EC/1223/2009) . Known toxicity studies on animals might have been carried out by others before Regulation EC/1223/2009 came into action or outside the region of this Regulation's influence.

KOSHER / HALAL

This product is NOT Kosher certified and NOT Halal certified

PACKAGING

The original packaging material is approved as food grade according (EC) Reg. 1935/2004, 10/2011 & 1282/2011.

HAZARDS IDENTIFICATION

- Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

This substance is not classified as dangerous according to Directive 67/548/EEC.

- Label elements

The product does not need to be labelled in accordance with Regulation (EC) No 1272/2008 [CLP].

IMPORT & EXPORT

This substance is not listed in the Annex I of Dangerous Chemicals (Regulation (EC) No 649/2012).

RISK ASSESMENT

This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

DOPING LIST

To the best of our knowledge, this product does not contain, nor is it contaminated with substances on the current World Anti-Doping Agency (WADA) Prohibited substances list.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall supplier be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if supplier has been advised of the possibility of such damages.

NUTRITIONAL VALUE

Siberian Ginseng EP (0,8% eleutherosides)

Typical nutritional values (per 100 grams)

Vitamin C	15 mg	Vitamin E	10 IU
Mositure	4.5 g	Siberian flavone	33 g
Polysaccharide	33 g	Sodium (%)	45 mg
Potassium	20 mg	Calcium (mg)	48 mg
Iron	25 mg	Phosphorus (mg)	0.2 mg
Magnesium	11 mg	Zinc (mg)	31 mg
Copper	15 mg		

Disclaimer: The information set out in this Specifications and/or in any other document provided with the products does not constitute any warranty other than conformity to the current product specifications. Any relevant legislation governing the use of the product should be observed by the User to ensure that the use of the products and any labelling is in compliance with any local or national legislation, regulation or standard. All other warranties, express or implied are hereby explicitly excluded.

As stated by our supplier

ALLERGENS DECLARATION

Siberian Ginseng EP (0,8% eleutherosides)

Please indicate Cross contamination only if for any reason can be possible

Allergens	Absent	Present	Cross
Azo colours	x		
Beef	x		
Benzoic acid (from E210 to E213)	x		
BHA-BHT (E320-E321)	x		
Celery and products thereof	x		
Chicken (meat)	x		
Cinnamon	x		
Cocoa	x		
Coriander	x		
Crustaceans and products thereof	x		
Eggs and products thereof	x		
Fish and products thereof	x		
Fructose	x		
Gelatin	x		
Glutamate added (from E620 to E625)	x		
Gluten (<20ppm)	x		
Legumes/Pulses	x		
Lupin and products thereof	x		
Maize and products thereof	x		
Milk protein (<0.1%)	x		
Milk sugar (lactose) (<0.02%)	x		
Molluscus and products thereof	x		
Mustard and products thereof	x		
Nuts*: almonds (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan Nut (Carya illinoensis(Wangenh.)K.Koch), Brazil nut (Bertholletia excelsa), Pistacchio nut (Pistacia vera), Macadamia nut and queensland nut (Macadamia ternifolia) and products thereof	x		
Peanuts and products thereof	x		
Pork	x		
Rye	x		
Sesame seeds and products thereof	x		
Sorbic acid (E200-E203)	x		
Soyabeans and products thereof	x		
Sucrose	x		
Sulphite (from E220 to E228) <10 mg/kg or mg/L expressed as SO2	x		
Tartrazine (E102)	x		
Umbelliferae	x		
Vanillin	x		
Wheat	x		
Yeast	x		

Remarks: -

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MATERIAL SAFETY DATA SHEET (MSDS)

Siberian Ginseng EP (0,8% eleutherosides)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product name: Siberian Ginseng Extract Powder	1.2 Supplier of MSDS: Benseng International BV Rietven 157 5464 PJ Veghel, The Netherlands
CAS Number : 84696-12-8	Emergency phone: +31-413-355361
ESIS EC# (EINECS) : 283-632-1	
Synonyms: Eleutherococcus Senticosus, root extract	
Chemical name: not available	
Chemical formula: not available	
1.3 REACH:	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. According to the classification provided by companies to ECHA in CLP notifications ONLY the liquid form of this substance is a flammable liquid and vapour and causes serious eye irritation. According to the majority of notifications provided by companies to ECHA in CLP notifications no hazards have been classified for the solid form of this substance.
1.4 Proposed uses:	Food supplements, cosmetics, further processing Check appropriate authorities in country of intended use for legal status.

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1 Composition:			
<u>Name</u>	<u>CAS#</u>	<u>% by Weight</u>	
Siberian Ginseng Extract Powder	84696-12-8	100%	

2.2 Toxicological Data on Ingredients: not applicable
The oral acute LD50 of powdered ES in mice is reported to be in the range of about 30.0 g/kg BW.
The oral LD50 of a 33-percent ethanolic extract is estimated to be 14.5 g/kg BW.

3. HAZARD IDENTIFICATION

3.1 Physical - Chemical Hazards:	Explosion: None identified. Flammable: Combustible solid, produces oxides of carbon when burning. Oxidizing: Not applicable. Toxic: None identified. Radioactive: Not applicable. Corrosive: None identified. Miscellaneous: None identified.
3.2 Environmental Hazards:	None identified.
3.3 Health Hazards:	Acute Effects: Swallowed: May be harmful. Eye: May be irritating. Skin: May be irritating. Inhalation: May be harmful. Chronic Effects: None identified. Mutagenic Effects: None identified. Reproductive Effects: None identified. Carcinogenic Effects: None identified. Sensitisation: None identified. Infectious: Not applicable.

4. FIRST AID

4.1 Eye Contact: Flush immediately with clean water for at least 15 minutes. Ensure irrigation under eyelids. Do not try to remove contact lenses unless trained. Contact a physician as necessary.
4.2 Skin Contact: Remove any contaminated clothing and footwear. Clean before re-use.
Wash affected areas thoroughly with soap and water for at least 15 minutes.
Contact a physician as necessary.
4.3 Inhalation: Remove from the exposure to fresh air. If breathing has stopped, administer artificial respiration and oxygen if available. Contact a physician as necessary.
4.4 Ingestion: Do Not induce vomiting.
Wash out mouth with water and give water slowly to dilute [as much as casualty can comfortably drink] provided to a person who is conscious. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconsciousness.

Contact a physician or local poison control centre immediately.
If vomiting occurs, lean patient forward or place on left side [head-down position, if possible] to maintain open airway and prevent aspiration.
4.5 Advice to Doctor: Treat symptomatically. Note the nature of this product.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media: Water Spray; Carbon Dioxide; Dry Chemical; Universal-Type Foam.
5.2 Unsuitable Extinguishing Media: None established.
5.3 Unusual Firefighting Hazards: None identified.
5.4 Special Procedures: Determine the need to evacuate or isolate the area according to your local emergency plan.
5.5 Protective Equipment: Self-contained breathing apparatus and protective clothing should be worn when fighting fires involving essential oils or chemicals.
5.6 Combustion Products: Oxides of carbon.
5.7 Contact Point: Dial Emergency in case of fire or Local Emergency Authority

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Use of self-contained breathing apparatus is recommended for any major chemical spill. Refer also to section 8.
6.2 Safety Precautions: Eliminate ALL ignition sources. Ventilate area. Determine the need to evacuate or isolate the area according to your local emergency plan;
6.3 Environmental Precautions: Keep away from drains, surface and ground water.
Report spills to appropriate Authorities if required.
6.4 Methods For Cleaning Up: Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent material. Wipe small spills with cloth. Clean with hot water and detergent. Refer also to Section 13. for disposal procedures.

7. SAFE HANDLING AND STORAGE INFORMATION

7.1 Handling: Avoid inhalation and contact with skin and eyes. Good personal hygiene practices should be used. Wash after any contact, before breaks and meals, and at the end of the work period. Contaminated clothing and shoes should be cleaned before re-use.
7.2 Storage: Not a hazardous material. Not a Scheduled Poison.
Containers should be kept closed in order to minimise contamination.
Store in a cool, dry, well ventilated place protected from light.
Keep from extreme heat and from freezing conditions and away from ALL sources of ignition.
Make sure the material does not come into contact with substances listed as: "Materials to Avoid", Refer to Section 10.
7.3 Unsuitable Packaging Materials: Epoxy or Phenolic-lined containers. Others not established.
7.4 Special Procedures: None established.
7.5 Specific end use(s):
Apart from the uses mentioned in section 1.4 no other specific uses are stipulated.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Respiratory Protection: None generally required. Use NIOSH approved respirator in confined areas or if ventilation is inadequate.
8.2 Ventilation Protection: Ensure adequate ventilation to keep exposure levels to a minimum.
General exhaust is recommended.
8.3 Eye Protection: Using goggles or face shield is recommended.
8.4 Protective Gloves: Using chemical resistant gloves is recommended.
8.5 Protective Clothing: Using chemical resistant clothing is recommended.
8.6 Protective Equipment: An eyewash fountain and / or safety shower should be available in the work area.
8.7 Special Engineering Controls: None established.
8.8 Other Personal Protection: Consult the following Standards for general advice regarding safety clothing and equipment: Respiratory Equipment:
Protective Gloves: , Industrial Clothing:
Industrial Eye Protection:
Occupational Protective Footwear:
8.9 Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require additional precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: powder, Colour: light brownish yellow powder
b) Odour/ taste: characteristic
c) Odour Threshold: No data available
d) pH : No data available

- e) Melting point/freezing point: No data available
 - f) Initial boiling point and boiling range: No data available
 - g) Flash point: No data available
 - h) Evaporation rate: No data available
 - i) Flammability (solid, gas): No data available
 - j) Upper/lower flammability or explosive limits: No data available
 - k) Vapour pressure: No data available
 - l) Vapour density: No data available
 - m) Relative density: No data available
 - n) Water solubility: Soluble in water – alcohol mixture. Dispersible in vegetable oils.
 - o) Partition coefficient: noctanol/water: No data available
 - p) Autoignition temperature: No data available
 - q) Decomposition temperature: No data available
 - r) Viscosity: No data available
 - s) Explosive properties: No data available
 - t) Oxidizing properties: No data available
 - u) Bulk Density: 0.30 - 0.50 g/ml
- 9.2 Other safety information
No data available.

10. STABILITY AND REACTIVITY

10.1 Stability: Chemically stable, non hazardous material.

This material presents no significant reactivity hazard.

10.2 Conditions to Avoid: Do not allow product to solidify in filled, closed containers as product expands upon freezing.

10.3 Materials to Avoid: Strong acids, strong alkalis and oxidizing agents.

10.4 Flammability: Combustible solid.

10.5 Hazardous Polymerization: Will not occur.

10.6 Hazardous Combustion or Decomposition Products:

Carbon monoxide and unidentified organic compounds may be formed during combustion.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects (source: ECHA 2022):

Toxicity to Animals (also see section 2.2.):

Acute Toxicity: oral:

No data available.

Acute Toxicity: inhalation:

No data available.

Acute Toxicity: dermal:

No data available.

Acute Toxicity: other routes:

No data available.

Skin corrosion/irritation:

No data available.

Serious eye damage/eye irritation:

No data available.

Respiratory or skin sensitisation:

No data available.

Repeated dose toxicity: oral:

No data available.

Repeated dose toxicity: inhalation:

No data available.

Repeated dose toxicity: dermal:

No data available.

Repeated dose toxicity: other routes:

No data available.

Germ cell mutagenicity:

Genetic toxicity: in vitro:

No data available.

Genetic toxicity: in vivo:

No data available.

Carcinogenicity:

IARC: 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.

Toxicity to reproduction:

No data available.

Specific target organ toxicity - single exposure:

No data available.

Specific target organ toxicity - repeated exposure:

No data available.

Aspiration hazard:

No data available.

Chronic Effects on Humans:

No data available.

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Additional Information:

RTECS: Not available

11.2 Special remarks:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity (source: ECHA 2022):

Aquatic toxicity:

Short-term toxicity to fish:

No data available.

Long-term toxicity to fish:

No data available.

Short-term toxicity to aquatic invertebrates:

No data available.

Long-term toxicity to aquatic invertebrates:

No data available.

Toxicity to aquatic algae and cyanobacteria:

No data available.

Toxicity to microorganisms:

No data available.

Toxicity to other aquatic organisms:

No data available.

Terrestrial toxicity:

Toxicity to soil macroorganisms except arthropods:

No data available.

Toxicity to terrestrial arthropods:

No data available.

Toxicity to terrestrial plants:

No data available.

Toxicity to soil microorganisms:

No data available.

Toxicity to birds:

No data available.

12.2 Persistence and degradability:

Low persistence level and readily biodegradable.

12.3 Bioaccumulative potential:

None established.

12.4 Mobility in soil:

Low mobility in the soil.

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATION

13.1 Waste Material: Place material and / or absorbent into sealed containers and dispose of in accordance with current applicable laws and regulations.

Refer to local Authority advice.

13.2 Contaminated Packaging: Dispose of in accordance with current applicable laws and regulations.

Refer to local Authority advice.

13.3 Note: Empty containers can have residues, gases and mists.

Use the proper Waste Disposal Methods & Procedures for Empties as well.

14. TRANSPORT INFORMATION

14.1 Transportation: Not Dangerous Goods according to criteria

UN-Number:

ADR/RID:

-

	IMDG:	-
	IATA:	-
14.2 UN proper shipping name:	ADR/RID:	Not dangerous goods.
	IMDG:	Not dangerous goods.
	IATA:	Not dangerous goods.
14.3 Transport hazard class(es):	ADR/RID:	-
	IMDG:	-
	IATA:	-
14.4 Packing group:	ADR/RID:	-
	IMDG:	-
	IATA:	-
14.5 Environmental hazards:	ADR/RID:	no
	IMDG:	no
	IATA:	no
14.6 Special precautions for user:	No special precautions needed.	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	No data available.	

15. REGULATORY INFORMATION

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

15.2 Chemical Safety Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

16. OTHER INFORMATION

GHS Classification and labelling information ECHA

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws -> **self classification:**

Hazard Symbol / pictogram: **not applicable**

Signal word: **not applicable**

Hazard Statement: H335 May cause respiratory irritation

Precautionary statement: P261 P304+P340 Avoid breathing dust/fume/gas/mist/vapours/spray.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall supplier be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if supplier has been advised of the possibility of such damages.

Abbreviations and acronyms:

ADN	EU Agreement concerning International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EINECS	European Inventory of Existing Commercial Chemical Substances
EN	European Standard
EUH statement	CLP-specific Hazard statement
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
ICAO	International Civil Aviation Organisation
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration

LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Reg.(EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
RRN	REACH Registration Number
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class