



Global partner in ginseng

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BTW nr: NL8144.54.756.B.01

## GENERAL SPECIFICATION

### Gynostemma Jiaogulan Extract Powder (80% gypenosides) **GYNEP80-w**

General Information			
Productcode	GYNEP80-w	Quality assurance:	<b>NORMAL</b>
Batch code	HJ..		
Best before	....		
Substance	<b>Gynostemma Jiaogulan Extract Powder (80% gypenosides)</b>		
Species / Scientific name	Gynostemma Pentaphyllum		
Plant part used / Identification	Aerial parts		
Appearance	Light yellow fine powder		
Flavor / Aroma	Characteristic	<i>Taric custom code:</i> 1302.1970.00	
Country of Origin	China		

Analyses	test method	Specification	Results
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Composition specification			
Assay (Gypenosides)	UV	≥ 80%	
Extraction solvent	/	ethanol/water	

Physical Property			
Solubility	visual	<b>partly soluble in water</b>	
Loss on Drying		≤ 5%	
Ash		≤ 5%	
Particle Size		≥ 95% through 80 mesh	
Bulk density		40-60 g/100ml	

Chemical Property			
Heavy Metals		≤ 10 ppm	
Lead (Pb)		≤ 3 ppm	
Arsenic (As)		≤ 2 ppm	
Cadmium (Cd)		≤ 1 ppm	
Mercury (Hg)		≤ 0,1 ppm	

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

Typical nutritional values (per 100 grams)			
Energy (kJ)	?	Total proteins (%)	?
Total carbohydrates (%)	?	Sugar (%)	?
Fat (%)	?	Dietary fibers (%)	?
Saturated Fat (%)	?	Sodium (%)	?

<b>Directions for use</b>	See: <a href="https://www.benseng.com/product/product-onsterfelijkheidskruid-en.php">https://www.benseng.com/product/product-onsterfelijkheidskruid-en.php</a>
<b>Statement</b>	Non-GMO. Not irradiated. Allergens free according ALBA- / LeDa-list. Avoid in individuals with a known allergy or hypersensitivity to jiaogulan or its constituents. Pah's and pesticides only controlled by random re-testing. Manufacturer is HACCP and ISO22000-2005 certified by SGS, Zurich, Switzerland.
<b>Storage</b>	Store in a cool dry place, avoiding sunlight directly
<b>Shelf Life</b>	At least 3 years when stored properly.
<b>Standard packaging</b>	Food grade polyethylene bags in cardboard box or 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. Copyright © 2022 Benseng International BV, Veghel, The Netherlands.

# STATEMENTS

## Gynostemma Jiaogulan Extract Powder (80% gypenosides)

### 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.

### PACKAGING

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

# ALLERGENS DECLARATION

## Gynostemma Jiaogulan Extract Powder (80% gypenosides)

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

Allergen	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: n.a.

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**

# MATERIAL SAFETY DATA SHEET (MSDS)

## Gynostemma Jiaogulan Extract Powder (80% gypenosides)

### Section 1: Chemical Product and Company identification

Product name: Gynostemma Jiaogulan Extract Powder	Supplier of MSDS:
CAS Number : not available	Benseng International BV
ESIS EC# (EINECS) : not available	Rietven 157
Synonyms: miracle grass, southern ginseng	5464 PJ Veghel, The Netherlands
Chemical name: Gynostemma pentaphyllum tea	Emergency phone:
Chemical formula: not available	+31-413-355361
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.
Proposed uses:	Foodsupplements, further processing. Check for legal status the appropriate authorities in country of intended use.

### Section 2: Composition and Information on Ingredients

Composition:		
<b>Name</b>	<b>CAS#</b>	<b>% by Weight</b>
Gynostemma Jiaogulan Extract Powder	not available	100%

#### Toxicological Data on Ingredients:

\*\* ACUTE TOXICITY DATA \*\*

TYPE OF TEST : LD - Lethal dose  
ROUTE OF EXPOSURE : Oral  
SPECIES OBSERVED : Rodent - rat  
DOSE/DURATION : >10 gm/kg

TOXIC EFFECTS :  
Details of toxic effects not reported other than lethal dose value

REFERENCE :  
CTYADS Zhongcaoyao. Chinese Traditional and Herbal Medicine. (China International Book Trading Corp., POB 2820, Beijing, Peop. Rep. China) V.11-1980- Volume(issue)/page/year: 18,325,1987

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill  
ROUTE OF EXPOSURE : Intraperitoneal  
SPECIES OBSERVED : Rodent - rat  
DOSE/DURATION : 1850 mg/kg

TOXIC EFFECTS :  
Details of toxic effects not reported other than lethal dose value

REFERENCE :  
CTYADS Zhongcaoyao. Chinese Traditional and Herbal Medicine. (China International Book Trading Corp., POB 2820, Beijing, Peop. Rep. China) V.11-1980- Volume(issue)/page/year: 18,325,1987

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill  
ROUTE OF EXPOSURE : Oral  
SPECIES OBSERVED : Rodent - mouse  
DOSE/DURATION : 4500 mg/kg

TOXIC EFFECTS :  
Details of toxic effects not reported other than lethal dose value

REFERENCE :  
CTYADS Zhongcaoyao. Chinese Traditional and Herbal Medicine. (China International Book Trading Corp., POB 2820, Beijing, Peop. Rep. China) V.11-1980- Volume(issue)/page/year: 21,313,1991

TYPE OF TEST : LD50 - Lethal dose, 50 percent kill  
ROUTE OF EXPOSURE : Intraperitoneal  
SPECIES OBSERVED : Rodent - mouse  
DOSE/DURATION : 755 mg/kg

TOXIC EFFECTS :  
Details of toxic effects not reported other than lethal dose value

REFERENCE :  
CTYADS Zhongcaoyao. Chinese Traditional and Herbal Medicine. (China International Book Trading Corp., POB 2820, Beijing, Peop. Rep. China) V.11-1980- Volume(issue)/page/year: 18,325,1987

### Section 3: Hazards Identification

#### Potential Acute Health Effects:

Slightly hazardous in case of eye contact (irritant), of inhalation, of ingestion. Non-irritant for skin.

#### Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: See section 11. MUTAGENIC EFFECTS: See section 11. TERATOGENIC EFFECTS: See section 11.

DEVELOPMENTAL TOXICITY: See section 11. Repeated or prolonged exposure is not known to aggravate medical condition.

### Section 4: First Aid Measures

#### Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Get medical attention if irritation develops.

Serious Skin Contact: No data available.

#### Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If difficult breathing, give oxygen. Get medical attention.

Serious Inhalation: No data available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: No data available.

### Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: No data available.

Flash Points: No data available.

Flammable Limits: No data available.

Products of Combustion: No data available.

Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: No data available.

Risks of explosion of the product in presence of static discharge: No data available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: No data available.

Special Remarks on Explosion Hazards: Organic dusts can form explosive mixtures in air.

### Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Specific end use(s):

Apart from the uses mentioned in section 1 no other specific uses are stipulated

### Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: No data available.

### Section 9: Physical and Chemical Properties

Physical state and appearance: solid.

Odor: No data available

Taste: Very bitter, astringent

Molecular Weight: No data available.

Color: Light yellow

pH (1% soln/water): No data available.

Boiling Point: No data available.

Melting Point: No data available.

Critical Temperature: No data available.

Specific Gravity: No data available.

Vapor Pressure: No data available.

Vapor Density: No data available.

Volatility: No data available.

Odor Threshold: No data available.

Water/Oil Dist. Coeff.: No data available.

Ionicity (in Water): No data available.

Dispersion Properties: See solubility

Solubility: Partly soluble in water

### Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: No data available.

Conditions of Instability: Excess heat, ignition sources.

Incompatibility with various substances: No data available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: No data available.

Special Remarks on Corrosivity: No data available.

Polymerization: Will not occur.

### Section 11: Toxicological Information

Information on toxicological effects (source: ECHA 2022):

Toxicity to Animals (also see section 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.

Skin sensitization:

No data available.

Respiratory sensitization:

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:

No data available.

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.

Special Remarks on Chronic Effects on Humans:

No data available.

Special Remarks on other Toxic Effects on Humans:

No data available.

Other Toxic Effects on Humans:

Slightly hazardous in case of eye contact (irritant), of inhalation, of ingestion. Non-irritant for skin.

Acute Potential Health Effects:

Skin: May cause skin irritation.

Eyes: Dust may cause eye irritation.

Ingestion: Swallowing this material during normal handling is not likely to be harmful.

Inhalation: This material may produce dust. May cause respiratory tract irritation. Breathing small amounts of this material during normal handling is not likely to be harmful. Breathing large amounts may be harmful.

Other information:

RTECS NUMBER : MG2100000

Other remarks:

## Section 12: Ecological Information

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.

Persistence and degradability:

Low persistence level and readily biodegradable.

Bioaccumulative potential:

None established.

Mobility in soil:

Low mobility in the soil.

Results of PBT and vPvB assessment:

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

Other adverse effects:

No data available

## Section 13: Disposal Considerations

Waste treatment methods

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from Federal laws and regulations. Consult any regional local authority requirements regarding the proper disposal of this material.

Hazardous Waste: To present knowledge of the supplier, this product is not regarded as hazardous waste as defined by EU Directive 91/689/EC.

Container Handling and Disposal: Rinse containers before disposal.

Contaminated packaging: Dispose of as unused product.

## Section 14: Transport Information

UN-Number:	ADR/RID:	-
	IMDG:	-
	IATA:	-
UN proper shipping name:	ADR/RID:	Not dangerous goods.
	IMDG:	Not dangerous goods.
	IATA:	Not dangerous goods.
Transport hazard class(es):	ADR/RID:	-
	IMDG:	-
	IATA:	-
Packing group:	ADR/RID:	-
	IMDG:	-
	IATA:	-
Environmental hazards:	ADR/RID:	no
	IMDG:	no
	IATA:	no
Special precautions for user:	No special precautions needed.	

### Section 15: Other Regulatory Information

Federal and State Regulations: No products were found.

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: a

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

### Section 16: Other information

#### GHS Classification and labelling information ECHA:

##### 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: This substance is not classified as dangerous according to Directive 67/548/EEC -> **self classification:**

Hazard Symbol / pictogram: **not applicable**

Signal word: **not applicable**

Hazard Statement: H335 May cause respiratory irritation  
H320 Causes eye irritation

Precautionary statement: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P281 Use personal protective equipment as required

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
STOT	Specific Target Organ Toxicity
RRN	REACH Registration Number
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class