



Global partner in ginseng

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BTW nr: NL8144.54.756.B.01

GENERAL SPECIFICATION

RED korean ginseng root slices **GINRSLNN**

| General Information | | | |
|----------------------------------|---|------------------------------------|---------------|
| Productcode | GINRSLNN | Quality assurance: | NORMAL |
| Batch code | Bl.. | | |
| Best before | ... | | |
| Substance | RED korean ginseng root slices | | |
| Species / Scientific name | Panax CA Meijer (Korean) | | |
| Plant part used / Identification | Roots | | |
| Appearance | brown-reddish disk shaped ginseng particles | | |
| Flavor / Aroma | Bitter-sweet (typical ginseng) | Taric custom code: 1211.2000.00 | |
| Country of Origin / Slicing | China / The Netherlands | | |

| Analyses | Specification | Results |
|----------|---------------|---------|
|----------|---------------|---------|

| Composition specification | | |
|---------------------------|----------|--|
| Thickness of slices | ≤ 2,5 mm | |
| Diameter of slices | ≤ 30 mm | |

| Physical Property | | |
|-------------------|--------------------|--|
| Water solubility | not soluble | |
| Loss on drying | ≤ 12% | |

| Chemical Property | | |
|-------------------|-----------------------|----------|
| Lead (Pb) | ≤ 3,0 ppm | |
| Arsenic (As) | ≤ 2,0 ppm | |
| Cadmium (Cd) | ≤ 1,0 ppm | |
| Mercury (Hg) | ≤ 0,1 ppm | |
| PAH's: | sum 4 PAH's | ≤ 50 ppb |
| | benzo(a)pyrene | ≤ 10 ppb |
| Pesticides | Req. (EC) No 396/2005 | |

| Microbiological Tests | | |
|-----------------------|-------------------------|--|
| Total Aerobic Count | ≤ 10 ⁷ cfu/g | |
| Yeast & Mold | ≤ 10 ⁵ cfu/g | |
| E-coli | ≤ 10 ² cfu/g | |
| Salmonella | negative | |

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

| | |
|--------------------|--|
| Directions for use | See: https://www.benseng.nl/onze-producten/onze-producten-rode-koreaanse-ginseng-en.html |
| Statement | Non-GMO and not irradiated. Allergens free according Alba-list. Pesticides only controlled by random re-testing. Manufacturer of slices is working according HACCP. |
| Storage | Store in a cool dry place, avoiding sunlight directly |
| Shelf Life | At least 5 years when stored properly. |
| Standard packaging | Food grade polyethylene bags in cardboard box or drum |

cfu= colony forming units

ppm= parts per million

ppb= parts per billion

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

RED korean ginseng root slices

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 to 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) 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

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

RED korean ginseng root slices

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), Pistachio 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.

MATERIAL SAFETY DATA SHEET (MSDS)

RED korean ginseng root slices

Section 1: Chemical Product and Company identification

Product name: RED korean ginseng root slices
CAS Number : not available
ESIS EC# (EINECS) : not available
Synonyms: Ginseng, Oriental (Panax ginseng)
Chemical name: Panax CA Meijer (Korean ginseng)
Chemical formula: not applicable
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 majority of notifications provided by companies to ECHA in CLP notifications no hazards have been classified.
Proposed uses: For further processing, food, food supplements, cosmetics
Check appropriate authorities in country of intended use.

Supplier of MSDS:
Benseng International BV
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Emergency phone:
+31-413-355361

Section 2: Composition and Information on Ingredients

Composition:

| Name | CAS# | % by Weight |
|--------------------------------|---------------|-------------|
| RED korean ginseng root slices | not available | 100% |

Toxicological Data on Ingredients: Panax CA Meijer

| Organism | Test Type | Route | Reported Dose (Normalized Dose) | Effect | Source |
|----------|-----------|-----------------|---------------------------------|--------|--------------------------------------|
| mouse | LD50 | intraperitoneal | 54mg/kg (54mg/kg) | | Farmatsiya Vol. 31(8), Pg. 45, 1982. |
| mouse | LD50 | oral | 200mg/kg (200mg/kg) | | Farmatsiya Vol. 31(8), Pg. 45, 1982. |
| rat | LD50 | oral | 750mg/kg (750mg/kg) | | Farmatsiya Vol. 31(8), Pg. 45, 1982. |

Section 3: Hazards Identification

Potential Acute Health Effects:
Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.
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. Get medical attention if irritation occurs.
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. 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 breathing is difficult, 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 heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances:
Slightly explosive in presence of open flames and sparks. Non-explosive in presence of shocks.
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: As with most organic solids, fire is possible at elevated temperatures
Special Remarks on Explosion Hazards:
Fine dust dispersed in air in sufficient concentrations, and in presence of an ignition source is a potential dust explosion hazard

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. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

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. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. 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: characteristic

Taste: bitter, sweet

Molecular Weight: Not applicable.

Color: brown-reddish

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: Not applicable.

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: No data available.

Solubility: not soluble

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: No data available.

Conditions of Instability: Excess heat, dust generation

Incompatibility with various substances: No data available.

Corrosivity: No data available.

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.
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.
Other Toxic Effects on Humans:
Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.
Additional Information:
Exposure Limits There is a blanket recommendation of 10 mg/m³ for inspirable dusts or mists when limits have not otherwise been established.
RTECS: Not available
Special remarks:
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

Section 15: Regulatory Information

Federal and State Regulations: No products were found.
 Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
 Other Classifications:
 WHMIS (Canada): Not controlled under WHMIS (Canada).
 DSCG (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: E
 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

EU 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 EC directives or respective national laws -> **self classification**

Hazard Symbol / pictogram:

GHS07

Signal word:

warning



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 |