



Global partner in ginseng

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BTW nr: NL8144.54.756.B.01

GENERAL SPECIFICATION

American ginseng root extract powder (10% ginsenosides HPLC)

GINAEP10

General Information			
Productcode	GINAEP10	Quality assurance:	HIGH
Batch code	BO...		EXY02
Best before	...		
Substance	American ginseng root extract powder (10% ginsenosides HPLC)		
Species / Scientific name	Panax quinquefolium		
Plant part used / Identification	Roots		
Appearance	Beige to yellow fine powder		
Flavor / Aroma	Bitter-sweet (typical ginseng)		Taric custom code: 1302.1970.00
Country of Origin	China		

Analyses	test method	Specification	Results
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Composition specification			
Total ginsenosides	HPLC	≥ 8%	
Additives	/	none	

Physical Property			
Extract solvent	/	ethanol/water	
Solubility	visual	partly water soluble	
Particle Size	80 mesh screen	≥95% through 80 mesh	
Loss on drying	App. IX G,CP2010	≤ 5%	
Ash	App. IX K,CP2010	≤ 8%	

Chemical Property			
Heavy metals	AAS, Euro Pharm	≤ 10 ppm	
Lead	AAS, Euro Pharm	≤ 3 ppm	
Arsenic	AAS, Euro Pharm	≤ 2 ppm	
Cadmium	AAS, Euro Pharm	≤ 1 ppm	
Mercury	AAS, Euro Pharm	≤ 0,1 ppm	
Pesticide residues	GC, Euro Pharm	Reg. (EC) No 396/2005	
PAH's:	sum 4 PAH's	Euro Pharm	≤ 50 ppb
	benzo(a)pyrene	Euro Pharm	≤ 10 ppb
Residual of solvent (ethanol)	GC, Euro Pharm	≤ 0,5%	

Microbiological Tests			
Total Plate Count	App. XIII C, CP2010	≤ 10.000 cfu/g	
Yeast & Mold	App. XIII C, CP2010	≤ 1.000 cfu/g	
E. Coli	App. XIII C, CP2010	Negative	
Salmonella	App. XIII C, CP2010	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-amerikaanse-ginseng-en.html
Statement	Non-GMO. Not irradiated. Allergens free according ALBA-list. Pah's and pesticides only controlled by random re-testing. Manufacturer is GMP certified.
Storage	Store in a cool dry place in well-sealed container, avoiding sunlight directly.
Shelf Life	At least 3 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

American ginseng root extract powder (10% ginsenosides HPLC)

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) 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 ASSESSMENT

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

American ginseng root extract powder (10% ginsenosides HPLC)

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 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		

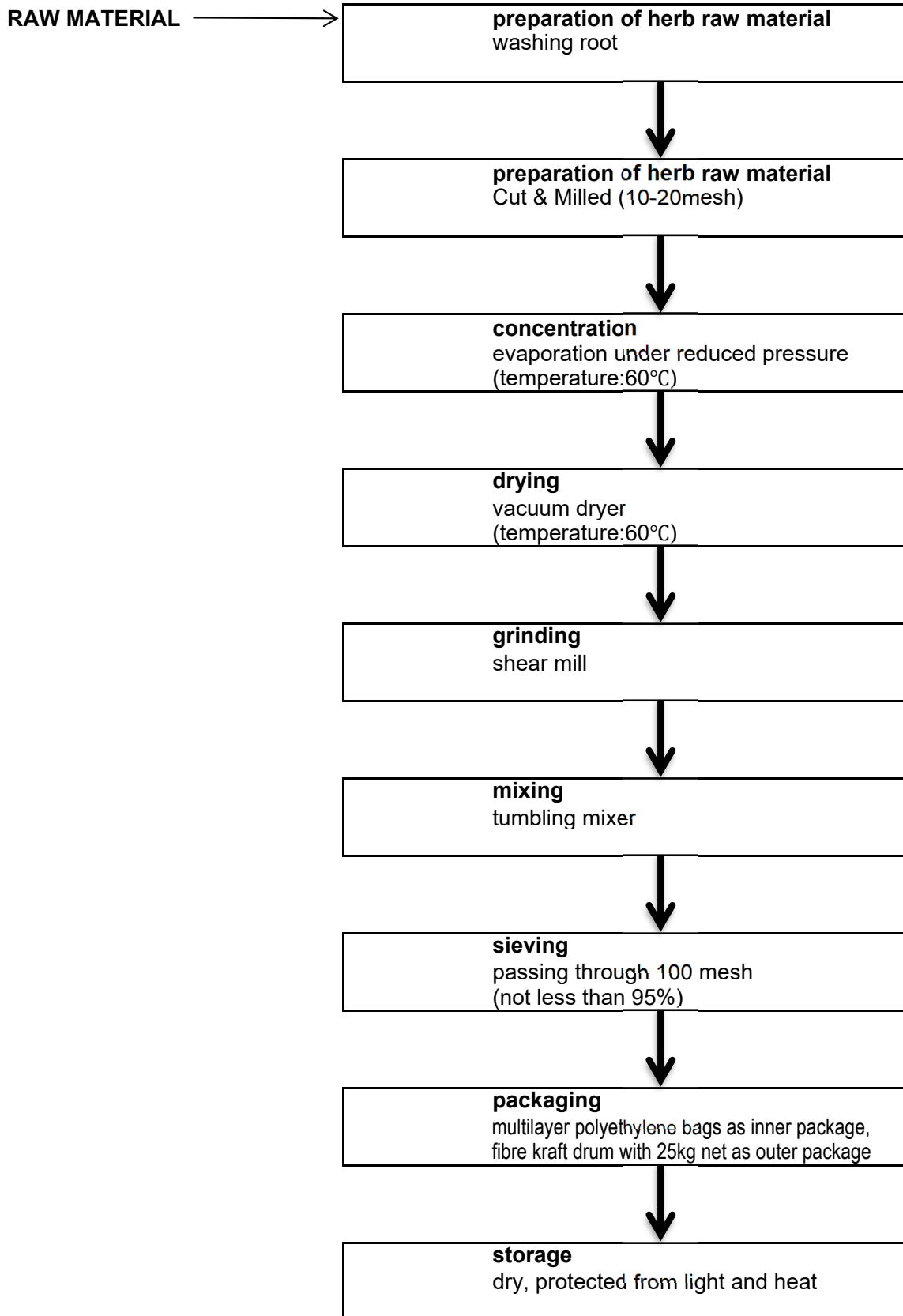
Remarks: n.a.

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

MANUFACTURING PROCESS FLOWCHART

American ginseng root extract powder (10% ginsenosides HPLC)



As stated by our supplier

MATERIAL SAFETY DATA SHEET (MSDS)

American ginseng root extract powder (10% ginsenosides HPLC)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product name: American ginseng root extract powder	1.2 Supplier of MSDS:
CAS Number : 90045-38-8	Benseng International BV
ESIS EC# (EINECS) : 289-898-5	Rietven 157
Synonyms: Western Ginseng, Panax quinquefolius	5464 PJ Veghel, The Netherlands
Chemical name: Ginseng, Panax quinquefolium, ext.	Emergency phone:
Chemical formula: not available	+31-413-355361
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 majority of notifications provided by companies to ECHA in CLP notifications the liquid form of this substance is a flammable liquid and vapour. 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:	Pharmaceuticals, food, food supplements, further processing Check for legal status the appropriate authorities in country of intended use.

2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1 Composition:								
<table><thead><tr><th>Name</th><th>CAS#</th><th>% by Weight</th></tr></thead><tbody><tr><td>American ginseng root extract powder</td><td>90045-38-8</td><td>100%</td></tr></tbody></table>	Name	CAS#	% by Weight	American ginseng root extract powder	90045-38-8	100%		
Name	CAS#	% by Weight						
American ginseng root extract powder	90045-38-8	100%						
2.2 Toxicological Data on Ingredients:	Oral LD ₅₀ > 300 but ≤ 2000 mg/kg bodyweight; or Dermal LD ₅₀ > 1000 but ≤ 2000 mg/kg bodyweight, or Inhalation (gas) LC ₅₀ > 2500 but ≤ 20000 ppm; or Inhalation (vapour) LC ₅₀ > 10.0 but ≤ 20.0 mg/l; or Inhalation (dust, mist) LC ₅₀ > 1.0 but ≤ 5.0 mg/l							

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 person 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 Specific end uses:

Apart from the uses mentioned in section 1.4 no other specific uses are stipulated

7.5 Special Procedures: None established.

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: beige to yellow

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: No data available
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 propertie: No data available
t) Oxidizing properties: No data available
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 3.2.):

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:

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

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 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 Packaging group ADR/RID: -
IMDG: -
IATA: -

14.5 Environmental hazards ADR/RID: no
IMDG: no
IATA: no

14.6 Special precautions for user: Not regulated as a hazardous material. No special precautions needed.

14.7 Transportation: Not Dangerous Goods according to criteria
Code for Transport by Road and Rail. No special transport required.
Not to be transported with Classes 1 [Explosives], 2.1 [Flammable Gases] [nb
this applies only when the capacity of individual container exceeds 500 Lt], 2.3
[Toxic Gases], 4.2 [Spontaneously Combustible Substances], 5.1 [Oxidising
Agents], 5.2 [Organic Peroxides], 7 [Radioactive Substances], and Foodstuffs or Foodstuff empties.
Label: Not allocated. Label: Not allocated.
UN Number: Not allocated. UN Number: Not allocated.
Packaging Group: Not allocated. Packaging Group: Not allocated.
EMS Number: Not allocated.
Marine Pollutant: Not allocated.

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:

EU HAZARDS IDENTIFICATION:

EU 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.

GHS: Label elements

Product does not need to be labelled in accordance with Regulation (EC) 1272/2008 [CLP] -> **self regulation:**

Hazard Symbol / pictogram: **GHS07**

Signal word: **warning**

Hazard Statement: H335 May cause respiratory irritation

Precautionary statement: P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P304+P340 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
STOT	Specific Target Organ Toxicity
RRN	REACH Registration Number
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class