



Global partner in ginseng

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BTW nr: NL8144.54.756.B.01

## GENERAL SPECIFICATION

### Organic Grown Maca root powder **MACWPnn-og**

General Information			
Productcode	MACWPnn-og	Quality assurance:	<b>NORMAL</b>
Batch code	<b>BM..</b>		
Best before	...		
Substance	<b>Organic Grown Maca root powder</b>		
Species / Scientific name	Lepidium meyenii / Lepidium Peruvianum Chacon		
Plant part used / Identification	Roots		
Appearance	Beige to light brown colored powder		
Flavor / Aroma	Characteristic without any foreign odour		Taric custom code: 1106 2090 00
Country of Origin	Peru		

Analyses	Specification	Results
<b>Composition specification</b>		
Cultivation	organic certified cultivation	
Carrier	none	
Solvents used	none	

Physical Property		
Moisture	≤ 10%	
Partical Size (Mesh)	≥ 95% through 60 mesh	

Chemical Property		
Lead (Pb)	≤ 3 ppm	
Arsenic (As)	≤ 2 ppm	
Cadmium (Cd)	≤ 1 ppm	
Mercury (Hg)	≤ 0,1 ppm	
Pesticides (GC-MSMS + LC-MSMS)	Conform Reg. 396/2005 CE	

Microbiological Tests		
Total Plate Count	≤ 100.000 cfu/g	
Yeasts & moulds	≤ 1.000 cfu/g	
E. Coli	Negative	
Salmonella	Negative	

Typical nutritional values (per 100 grams)		Source: Data provided by primary importer in EU	
Energy (kJ)	359 kCal / 1503 kJ	Total proteins (%)	13,5
Total carbohydrates (%)	68,0	Sugar (%)	33,0
Fat (%)	2,0	Dietary fibers (%)	6,5
Saturated Fat (%)	< 1	Sodium (%)	0

<b>Directions for use</b>	See: <a href="https://www.benseng.com/product/product-maca-en.php">https://www.benseng.com/product/product-maca-en.php</a>
<b>Statement</b>	Non-GMO. Not irradiated. Allergens free according ALBA- / LeDa-list. Pesticides controlled by random re-testing. Our EU-supplier is FSSC22000 certified.
<b>Storage</b>	Stored in a cool (< 20°C), dark and dry place do not expose to direct sunlight or strong odours.
<b>Shelf Life</b>	At least 2 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.

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# **STATEMENTS**

## **Organic Grown Maca root powder**

### **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, N°1830/2003/EC and N°65/2004/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 EU 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**

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

## Organic Grown Maca root powder

**Allergenic constituents according (EU) Regulation 1169/2011 and amendments:**

Major allergens	+ / - / c	Remarks (state the exact nature)
Cereals containing gluten (wheat, rye, oats, barley, spelt, kamut) and product thereof *	-	
Crustaceans and and product thereof	-	
Eggs and and product thereof	-	
Fish and and product thereof **	-	
Peanuts and and product thereof	-	
Soya and and product thereof ***	-	
Milk and and product thereof (incl. Lactose) ****		
Nuts and and product thereof *****	-	
Celery and and product thereof	-	
Mustard and product thereof	-	
Sesame seed and product thereof	-	
Sulphur dioxide and sulphites (E220-E228) >10mg/kg	-	
Lupin product thereof	-	
Molluscs and product thereof	-	

**\* except:**

- (a) wheat based glucose syrups including dextrose(1);
- (b) wheat based maltodextrins (1);
- (c) glucose syrups based on barley;
- (d) cereals used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;

**\*\* except:**

- (a) fish gelatine used as carrier for vitamin or carotenoid preparations;
- (b) fish gelatine or Isinglass used as fining agent in beer and wine.

**\*\*\* except:**

- (a) fully refined soybean oil and fat (1);
- (b) natural mixed tocopherols (E306), natural D-alpha tocopherol, natural D-alpha tocopherol acetate, natural D-alpha tocopherol succinate from soybean sources;
- (c) vegetable oils derived phytosterols and phytosterol esters from soybean sources;
- (d) plant stanol ester produced from vegetable oil sterols from soybean sources.

**\*\*\*\* except:**

- (a) whey used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;
- (b) lactitol

**\*\*\*\*\* except:**

- (a) nuts used for making distillates or ethyl alcohol of agricultural origin for spirit drinks and other alcoholic beverages;

(1) And products thereof, insofar as the process that they have undergone is not likely to increase the level of allergenicity assessed by the EFSA for the relevant product from which they originated.

'-' = allergen absent

'+' = allergen present

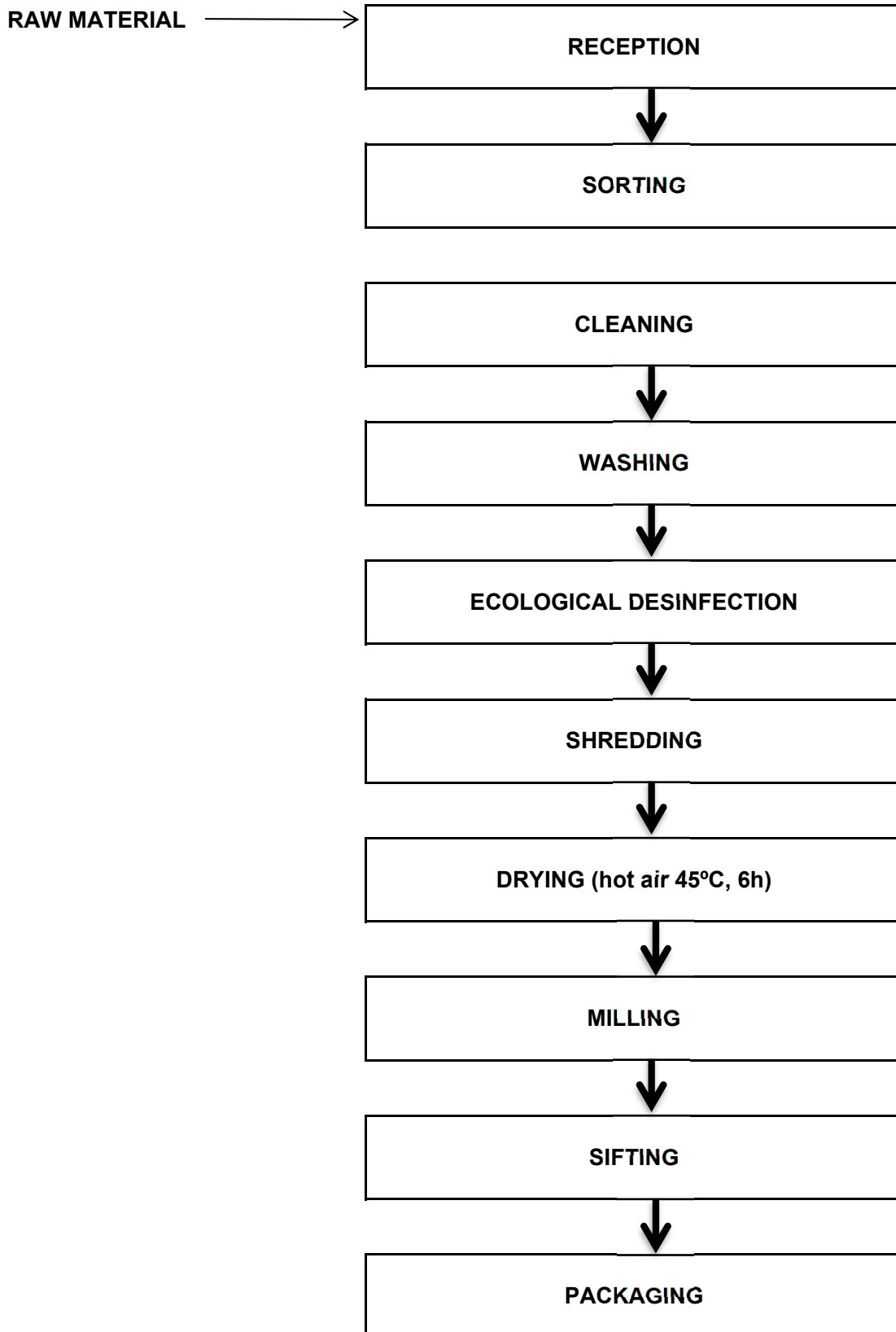
'c' = might contain allergen due do cross contamination

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

## Organic Grown Maca root powder



**As stated by our supplier**

# MATERIAL SAFETY DATA SHEET (MSDS)

## Organic Grown Maca root powder

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

1.1 Product name: Organic Grown Maca root powder  
CAS Number : not available  
ESIS EC# (EINECS) : not available  
Synonyms: Peruvian ginseng, Lepidium Peruvianum Chacon  
Chemical name: Lepidium meyenii  
Chemical formula: not available  
1.2 Supplier of MSDS:  
Benseng International BV  
Rietven 157  
5464 PJ Veghel, The Netherlands  
Emergency phone:  
+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.  
1.4 Proposed uses: Furter processing, food, food supplements  
Check for legal status the appropriate authorities in country of intended use.

### 2. HAZARDS IDENTIFICATION

2.1 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.  
2.2 Label elements  
The product does not need to be labelled in accordance with EC directives or respective national laws.  
2.3 Other hazards - none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Composition:

Name	CAS#	% by Weight
Organic Grown Maca root powder	not available	100%

#### 3.2 Toxicological Data on Ingredients:

The acute toxicity (lethal dose, LD50), reaching doses as high as 16,400 mg/kg in mice, finding no signs of toxicity or behavior alterations.

### 4. FIRST AID MEASURES

4.1 Description of first aid measures  
If inhaled  
If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
In case of skin contact  
Wash off with soap and plenty of water.  
In case of eye contact  
Flush eyes with water as a precaution.  
If swallowed  
Never give anything by mouth to an unconscious person. Rinse mouth with water.  
4.2 Most important symptoms and effects, both acute and delayed  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.  
4.3 Indication of any immediate medical attention and special treatment needed  
No data available

### 5. FIREFIGHTING MEASURES

5.1 Extinguishing media  
Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
5.2 Special hazards arising from the substance or mixture  
Nature of decomposition products not known.  
5.3 Advice for firefighters  
Wear self contained breathing apparatus for fire fighting if necessary.  
5.4 Further information  
No data available

### 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures  
Avoid dust formation. Avoid breathing vapors, mist or gas.  
6.2 Environmental precautions  
Do not let product enter drains.  
6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities:

Store in cool place. Keep packaging tightly closed in a dry and well-ventilated place.

Recommended storage temperature: below 20 °C

7.3 Specific end uses:

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: powder, Colour: beige to light brown

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: Not soluble

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 Reactivity: No data available

10.2 Chemical stability: stable

10.3 Possibility of hazardous reactions: none

10.4 Conditions to avoid: No data available  
10.5 Incompatible materials: Strong oxidizing agents  
10.6 Hazardous decomposition products: will not occur

## 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:

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:

No data available.

12.3 Bioaccumulative potential:

No data available.

12.4 Mobility in soil:

No data available.

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 CONSIDERATIONS**

13.1 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.

13.2 Waste :

Waste management is carried out without endangering human health, without harming the environment and in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

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

13.3 Packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Container Handling and Disposal: Rinse containers before disposal.

Contaminated packaging: Dispose of as unused product.

**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.

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 NOT 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:

H315

Causes skin irritation.

H335

May cause respiratory irritation

Precautionary statement:

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351

IF IN EYES: Rinse cautiously with water for several minutes.

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