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IBAN: NL42RABO0108451313

BTW nr: NL8144.54.756.B.01

## **GENERAL SPECIFICATION**

Korean ginseng LEAF extract powder 50% ginsenosides HPLC GINEP50-w

General Information

Productcode GINEP50-w Quality assurance: NORMAL

Batch code HJ...

Best before ...

Substance Korean ginseng LEAF extract powder 50% ginsenosides HPLC

Substance
Species
Panax CA Meijer (Korean)
Plant part used
Appearance
Best before
I...
Korean ginseng LEAF extract powder 50% ginsenosides HPLC
Panax CA Meijer (Korean)
Aerial parts
Beige to light yellow fine powder

Flavor / Aroma Bitter-sweet (typical ginseng) Taric custom code:
Country of Origin China 1302.1970.00

Analyses	Test method	Specification	Results
Composition specification			
Total ginsenosides	UV	≥ 80%	
Total ginsenosides (not a specification)	HPLC	≥ 50%	
Extract ratio	1	13-15 : 1	
Extract solvent	1	ethanol/water	

Physical Property					
Solubility	visual	water soluble			
Particle Size	80 mesh screen	≥ 95% through 80 mesh			
Loss on drying	5g/105ºC/2hrs	≤ 5%			

Chemical Property					
Heavy metals		ICP-MS	≤ 10 ppm		
Lead		ICP-MS	≤ 3 ppm		
Arsenic		ICP-MS	≤ 2 ppm		
Cadmium		ICP-MS	≤ 1 ppm		
Mercury		ICP-MS	≤ 0,1 ppm		
Residual of solvent (ethanol)		GC/AB;ICH/283/95-3	≤ 0,5%		
PAH's:	sum 4 PAH's	GC-MS	≤ 50 ppb		
	benzo(a)pyrene	GC-MS	≤ 10 ppb		
Pesticide residues		Reg. 396/2005 CE	Conform		

Microbiological Tests					
Total Plate Count	CP2010	≤ 10.000 cfu/g			
Yeast & Mold	CP2010	≤ 1.000 cfu/g			
E. Coli	Eur.Ph. 2.6.13 (2000)	Negative			
Salmonella	CP2010	Negative			

Typical nutritional values (per 100 grams)		Source: Typical and	alyse results from ingredient
Energy (kJ)	1720 kJ / 412 kCal	Total proteins (%)	0,50
Total carbohydrates (%)	24,61	Sugar (%)	< 0,5
Fat (%)	35,10	Dietary fibers (%)	< 0,1
Saturated Fat (%)	< 0,1	Sodium (%)	0,68

Directions for use	See: https://www.benseng.nl/onze-producten/onze-producten-witte-koreaanse-ginseng-en.html			
Statement	Allergens free according ALBA-list. Pah's and pesticides only controlled by random re-testing.			
	Our manufacturer/supplier is HACCP, ISO22000 and ISO9001 certified and IQNet recognized.	Our manufacturer/supplier is HACCP, ISO22000 and ISO9001 certified and IQNet recognized.		
Storage	Store in a cool dry place, avoiding sunlight directly	Store in a cool dry place, avoiding sunlight directly		
Shelf Life	At least 3 years when stored properly.			
Standard packaging	Food grade polyethylene bags in cardboard box or drum			
ofu- colony forming units	nom – parte por million – not datos	ctable		

#### 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 © 2023 Benseng International BV, Veghel, The Netherlands.

## **STATEMENTS**

# Korean ginseng LEAF extract powder 50% 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.

## **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.

## **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".

#### **PACKAGING**

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

#### HAZARDS IDENTIFICATION

• Classification of the substance or mixture according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]:

Eye irritation (Category 2) Skin irritation (Category 2)

Label elements according Regulation (EC) No 1272/2008 [CLP] :

Hazard Symbol / pictogram: GHS07 Signal word: Warning

Hazard Statement: H315 Causes skin irritation.

H319 Causes serious eve irritation.

Precautionary statement:
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/ eve protection/ face protection.

#### **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**

## Korean ginseng LEAF extract powder 50% ginsenosides HPLC

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

Allergen	Absent	Present	Cross
Azo colours	Х		
Beef	Х		
Benzoic acid (from E210 to E213)	Х		
BHA-BHT (E320-E321)	Х		
Celery and products thereof	Х		
Chicken (meat)	Х		
Cinnamon	Х		
Cocoa	Х		
Coriander	Х		
Crustaceans and products thereof	Х		
Eggs and products thereof	Х		
Fish and products thereof	Х		
Fructose	Х		
Gelatin	Х		
Glutamate added (from E620 to E625)	Х		
Gluten (<20ppm)	Х		
Legumes/Pulses	Х		
Lupin and products thereof	Х		
Maize and products thereof	Х		
Milk protein (<0.1%)	Х		
Milk sugar (lactose) (<0.02%)	Х		
Molluscus and products thereof	Х		
Mustard and products thereof	Х		
Nuts: almonds (Amygdalus communis L.), Hazelnut (Corylus avellana),			
Walnut (Juglans regia), Cashew (Anacardium occidentale), Pecan Nut (Carya illinoiensis(Wangenh.)K.Koch), Brazil nut (Bertholletia excelsa),			
Pistacchio nut (Pistacia vera), Macadamia nut and qeensland 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	Х		
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		
10000			1

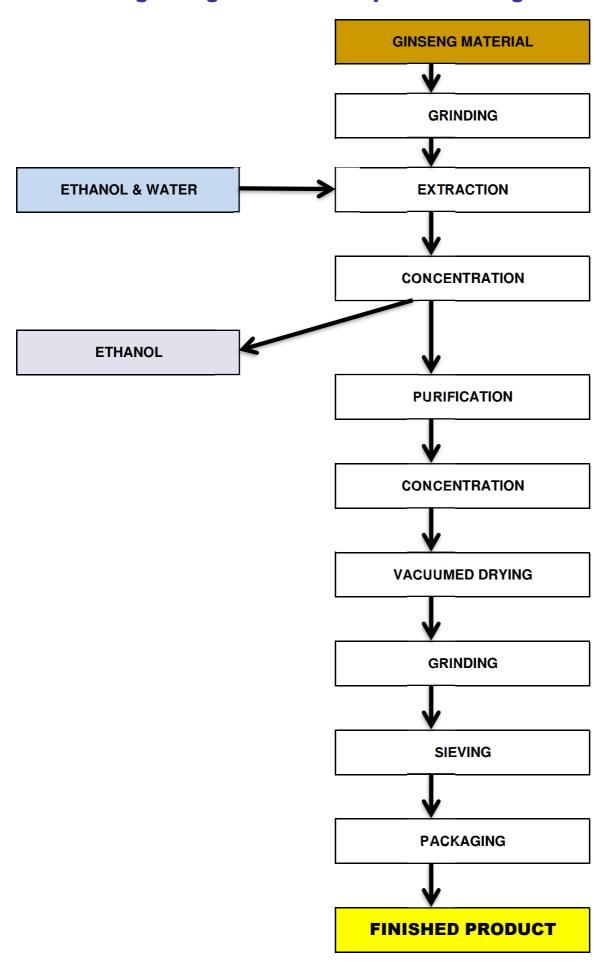
Remarks: n.a.

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

Korean ginseng LEAF extract powder 50% ginsenosides HPLC



As stated by our supplier

# **MATERIAL SAFETY DATA SHEET (MSDS)**

Korean ginseng LEAF extract powder 50% ginsenosides HPLC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product name: Korean Ginseng EP (80% UV)

1.2 Supplier of MSDS:

CAS Number:

50647-08-0

Benseng International BV

ESIS EC# (EINECS): 680-299-8 Rietven 157

Synonyms: Ginseng, Oriental (Panax ginseng), Panax CA Meijer 5464 PJ Veghel, The Netherlands

Chemical name: Panax ginseng extr. 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.

According to the classification provided by companies to ECHA in CLP notifications this substance causes serious eye irritation and causes skin

irritation.

1.4 Proposed uses: Food, food supplements, cosmetics, further processing.

Check appropriate authorities in country of intended use for legal status.

#### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

2.1 Composition:

<u>Name</u> <u>CAS#</u> <u>% by Weight</u> Panax Ginseng EP 50647-08-0 100%

2.2 Toxicological Data on Ingredients:

Organism	Test Type	Route	Reported Dose (Normalized Dose)	Effect	Source
mouse	LD50	intraperitoneal	54mg/kg (54mg/kg)		Farmatsiya Vol. 31(6), Pg. 45, 1982.
mouse	LD50	oral	200mg/kg (200mg/kg)		Farmatsiya Vol. 31(6), Pg. 45, 1982.
rat	LD50	oral	750mg/kg (750mg/kg)		Farmatsiya Vol. 31(6), Pg. 45, 1982.

#### 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 Specific end use(s):

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

7.4 Unsuitable Packaging Materials: Epoxy or Phenolic-lined containers. Others not established.

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:

#### 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:

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.

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

#### **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).

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 Appearance: Fine light brownish yellow powder

9.2 Flavor / Aroma: Bitter-sweet (typical ginseng)

Odour Threshold: No data available.

9.3 Bulk Density: No data available.

9.4 Refractive Index: Not applicable.

9.5 Optical Rotation: Not applicable.

9.6 pH: No data available.

9.7 Solubility: soluble in cold water

Soluble in water – alcohol mixture

9.8 Solubility in Water: Soluble

9.9 Flash Point: No data available.

9.10 Flammability Limits [as % v/v in Air]

Lower Explosion Limit: No data available.

Upper Explosion Limit: No data available.

9.11 Autoignition Temperature: No data available.

9.12 Melting Point: No data available.

9.13 Boiling Point: No data available.

9.14 Vapour Pressure: No data available.

9.15 Vapour Density: 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 2023):

Toxicity to Animals (also see section 2.2.):

Acute Toxicity: oral: No data available.

Acute Toxicity: inhalation:

No data available.

Acute Toxicity: dermal:

No data available.

Acute Toxicity: other routes:

No data available.

Skin corrosion/irritation:

May be skin irritating.

Serious eye damage/eye irritation:

May be eye irritating.

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.

11.2 Exposure Limits There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been established.

OSHA TWA: None established.
OSHA STEL: None established.
ACGIH TWA: None established.
ACGIH STEL: None established.
NOHSC TWA: None established.
NOHSC STEL: None established.
11.3 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. 11.4 Additional Information: RTECS: Not available 11.5 Special remarks:

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

#### 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity (source: ECHA 2023):

#### **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 or not conducted. 12.6 Other adverse effects:

No data available.

#### 13. DISPOSAL CONSIDERATION

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

Refer to local Authority advice.

13.2 Contaminated Packaging: Dispose of in accordance with current applicable laws and regulations. Refer to local Authority advice.

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

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

## 14. TRANSPORT INFORMATION

14.1 Transportation: Not Dangerous Goods according to criteria

**UN-Number:** ADR/RID: IMDG:

IATA:

ADR/RID: 14.2 UN proper shipping name: Not dangerous goods.

> IMDG: Not dangerous goods.

> IATA: Not dangerous goods.

14.3 Transport hazard class(es): ADR/RID:

IMDG: IATA:

ADR/RID: 14.4 Packing group:

> IMDG: IATA:

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

IATA: no

14.6 Special precautions for user: No special precautions needed.

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

#### 15. REGULATORY INFORMATION

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

15.2 Chemical Safety Assessment:

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

#### **16. OTHER INFORMATION**

## GHS Classification and labelling information ECHA:

Classification of the substance or mixture according to Regulation (EC) No 1272/2008:

Skin Irritation (Category 2), H315 Eye Irritation (Category 2), H319

Label elements: labelling according to Regulation (EC) No 1272/2008 + self classification:

**GHS07** Hazard Symbol / pictogram:

Signal word: warning

H315 Causes skin irritation. Hazard statement(s):

H319 Causes serious eye irritation. H335 May cause respiratory irritation

Precautionary statement(s): P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several

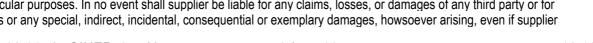
minutes. Remove contact lenses, if present and easy

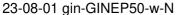
to do. Continue rinsing.

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





· 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
NOAEC
NOAEC
NOOBserved Adverse Effect Level
NOAEL
NOEC
NOEC
NOEL
PBT
PNEC
NOSSING
NOSSING
NOODSERVED Adverse Effect Level
NOCOUDATION
NOODSERVED Adverse Effect Level
NOCOUDATION
NOODSERVED Adverse Effect Concentration
Occupational Exposure Limit
Persistent Bioaccumulative Toxic
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