



Global partner in ginseng

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BTW nr: NL8144.54.756.B.01

GENERAL SPECIFICATION

Organic Grown Maca root powder, gelatinized MACWPgn-org

General Information		
Productcode	MACWPgn-org	Quality assurance: NORMAL
Batch code	BE...	
Best before	
Substance	Organic Grown Maca root powder, gelatinized	
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
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Composition specification		
Cultivation	organic certified cultivation	
Gelatinization index	min. 95%	
Carrier	none	
Solvents used	none	

Physical Property		
Humidity	10% max	
Partical Size	90% through 80 mesh	
Bulk Density, apped/untapped	Report only	

Chemical Property		
Lead (Pb)	≤ 5 ppm	
Arsenic (As)	≤ 2 ppm	
Cadmium (Cd)	≤ 1 ppm	
Mercury (Hg)	≤ 0,1 ppm	
Pesticides	EG 396/2005	

Microbiological Tests		
Total Aerobic Plate Count	≤ 50.000 cfu/g	
Yeasts & moulds	≤ 1.000 cfu/g	
E. Coli	Negative	
Salmonella	Negative	

Typical nutritional values (per 100 grams)		Source: Summary from Internet	
Energy (kJ)	315 kCal / 1326 kJ	Total proteins (%)	12,0
Total carbohydrates (%)	68,0	Sugar (%)	30,0
Fat (%)	2,2	Dietary fibers (%)	8,5
Saturated Fat (%)	1,1	Sodium (%)	0,019

Directions for use	See: https://www.benseng.com/product/product-maca-en.php
Statement	For further processing purposes. Allergens free according ALBA-list. Lactose free. Non-GMO, not irradiated, melamin-free. Product conforms EU reg. 834/2007/EC and 889/2008/EC. Pesticides controled by random re-testing. Our EU supplier is HACCP and ISO9001 certified.
Storage	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

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, gelatinized

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, 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.

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

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, gelatinized

Please fill the following table for each product/sku:

- Column I indicates the allergens that may be found in the product, from addition or cross contamination
- Column II indicates the allergens present in other products that are run on the same equipment but at a different time.
- Column III indicates whether any allergens are present in your plant.

Component	Column I Present in the product	Column II Present in other products manufactured on the same line	Column III Present in the same manufacturing plant
Peanut or ist derivatives , eg. Peanut-pieces, protein, oil, butter, flour and mandelona nuts (an almond flavoured peanut product) etc. Peanut may also be known as ground nut.	NO	NO	NO
Tree Nuts (almonds, Brazil nuts, cashews, hazelnuts (Fiberts), macadamia nuts, pecans, pine nuts (pinyon, pinon), pistachios and walnuts or their derivatives, eg. nut butter and oil etc.	NO	NO	NO
Sesame or its derivatives , eg., paste and oil, etc.	NO	NO	NO
Milk or its derivatives , eg., milk caseinate, whey and yogurt powder etc.	NO	NO	NO
Eggs or its derivative eg., frozen yolk, egg white powder and egg protein isolates etc.	NO	NO	NO
Fish or its derivatives , eg., fish proteins and extracts etc.	NO	NO	NO
Shellfish (including crab, crayfish, lobster, prawn and shrimp) and Molluses (including snails, clams, mussels, oysters, cockle and scallops) or their derivative eg., extracts etc.	NO	NO	NO
Soy or its derivatives , eg., lecithin, oil, tofu and protein isolates etc.	NO	NO	NO
Wheat or its derivatives , eg. flours, starches and brans etc.	NO	NO	NO
Gluten: Any gluten protein from the grain of any of the following cereals or the grain of a hybridized strain produced from at least one of Horizon requires this detailed information in order to provide accurate information to our retails partner.	NO	NO	NO
Sulphites , eg. sulphur dioxide and sodium metabisulphites etc.	NO	NO	NO
Other (as considered necessary)			

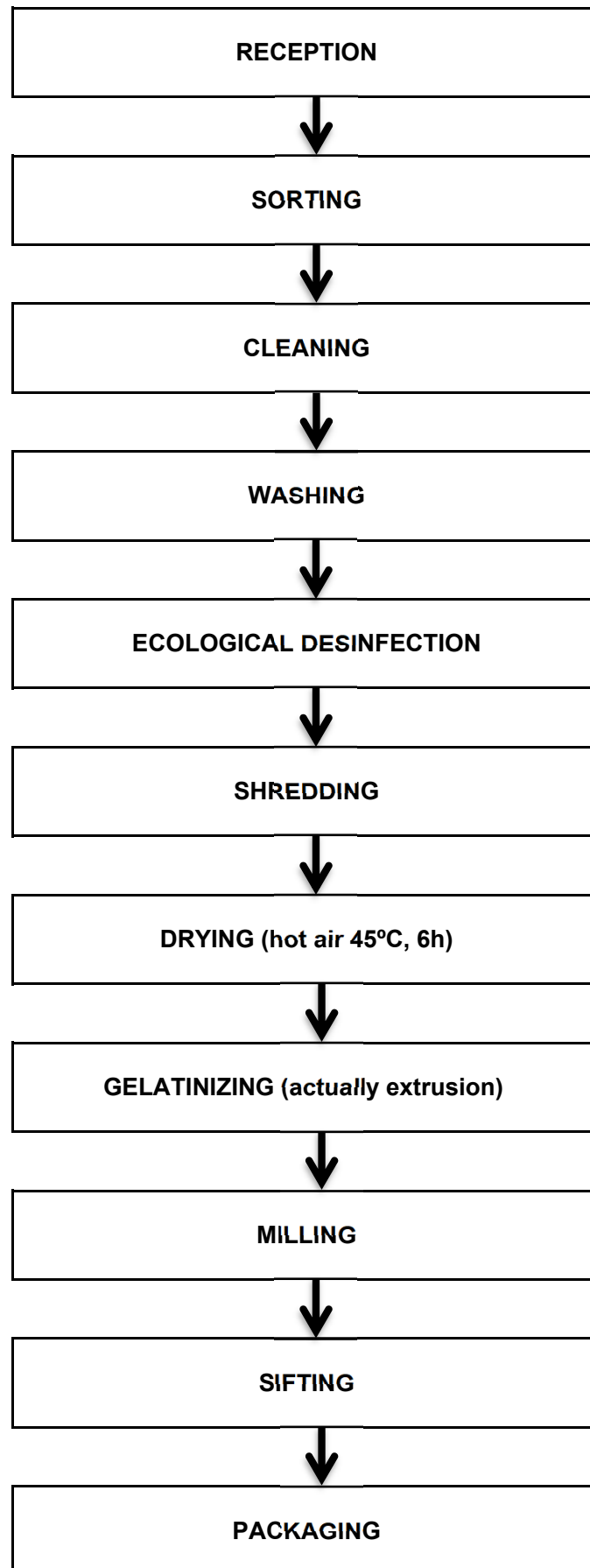
Do you have procedured in place to avoid cross contamination of the product with the allergens no present in the product but noted in columns II and III? YES NO

As stated by our supplier

MANUFACTURING PROCESS FLOWCHART

Organic Grown Maca root powder, gelatinized

RAW MATERIAL →



As stated by our supplier

MATERIAL SAFETY DATA SHEET (MSDS)

Organic Grown Maca root powder, gelatinized

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

1.1 Product name: Organic Grown Maca root powder, gelatinized
CAS Number : not available
ESIS EC# (EINECS) : not available
Synonyms: Peruvian ginseng, Lepidium Peruvianum Chacon
Chemical name: Lepidium meyenii
Chemical formula: not available
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: Further processing, food, food supplements
Check for legal status the appropriate authorities in country of intended use.

1.2 Supplier of MSDS:
Benseng International BV
Rietven 157
5464 PJ Veghel, The Netherlands
Emergency phone:
+31-413-355361

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, gelatinized	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. Product must be protected from light.

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 properties: 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