

Lupulin Powder / Lupulin Pellets Safety Data Short

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 12/8/2023 Revision date: 12/8/2023 Supersedes version of: 12/19/2022 Version: 3.00

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance (UVCB)

Trade name : Lupulin Powder / Lupulin Pellets

Other means of identification : Hop, Humulus lupulus

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Manufacturing of food

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier/Importer

Simon H. Steiner, Hopfen, GmbH

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Manufacturer/Supplier

Hallertauer Hopfenveredelungsges. mbH

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Supplier/Importer S. S. Steiner, Inc.

1 West Washington Avenue

WA 98903 Yakima

USA

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Supplier/Importer Steiner Hops Ltd.

15A Henley Business park

Pirbright Road

GU3 2DX Normandy Guildford, Surrey

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1.4. Emergency telephone number

Emergency number : Simon H. Steiner, Hopfen, GmbH

Tel.: +49 8751 8605 0 (Montag – Freitag 08:00 – 17:00, Central European Time)

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Steiner Hops Ltd.

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S. S. Steiner, Inc.

Phone: +1 509 453 4731 (Monday to Friday 8.00-17.00, Pacific Time Zone)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 H319 H317 Skin sensitisation, Category 1

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Warning

Hazard statements (CLP) : H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

Precautionary statements (CLP) : P261 - Avoid breathing dust, fume.

P264 - Wash hands, face thoroughly after handling.

P280 - Wear protective clothing, protective gloves, eye protection.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

Other hazards which do not result in classification : Dust may form explosive mixture in air.

PBT: not relevant – no registration required vPvB: not relevant – no registration required

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
hop oil (8007-04-3)	PBT: not relevant – no registration required
	vPvB: not relevant – no registration required
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
28-0)	

SECTION 3: Composition/information on ingredients

3.1. Substances

Comments : Origination: Hop, Humulus lupulus

Substance type : UVCB

Name : Lupulin Powder / Lupulin Pellets

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (Natural component)	CAS-No.: 468-28-0 EC-No.: 207-405-3 REACH-no: 01- 2120766877-32-0001	1-14	Acute Tox. 4 (Oral), H302 (ATE=700 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
hop oil	CAS-No.: 8007-04-3	0,1-5,6	Flam. Liq. 3, H226
(Natural component)	EC-No.: 640-023-9		Asp. Tox. 1, H304 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact : May cause an allergic skin reaction. Irritation.

Symptoms/effects after eye contact : Eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam.

Unsuitable extinguishing media : Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard : May ignite spontaneously if exposed to air.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be

done according to official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid dust formation. Avoid contact with skin and eyes. Avoid

breathing dust, fume.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid sub-soil penetration. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Avoid dust formation. Take up mechanically (sweeping, shovelling) and collect in suitable

container for disposal.

Other information : Disposal must be done according to official regulations.

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6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Dust could form explosive mixtures with air.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid

contact with skin and eyes. Avoid breathing dust, fume.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : < 5 °C

Information about storage in one common storage

facility

: Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Lupulin Powder / Lupulin Pellets	
Germany - Occupational Exposure Limits (Generic OEL data)	
Observe general threshold limit for dust.	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	6 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	21 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects, inhalation	10 mg/m ³		
Long-term - systemic effects, dermal	3 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	1.87 μg/L		
PNEC aqua (marine water) 0.187 µg/L			
PNEC aqua (intermittent, freshwater)	1.87 μg/L		
PNEC aqua (intermittent, marine water)	0.187 μg/L		
PNEC (STP)			
PNEC sewage treatment plant	10 mg/l		

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eve protection:

Wear closed safety glasses. ISO 16321-1

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. EN ISO 13688

Hand protection:

In case of repeated or prolonged contact wear gloves. Chemically resistant protective gloves. Nitrile rubber. ISO 374-1. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P2. EN 143. . Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Colour Green. Pellet. Powder. Appearance Odour characteristic. Odour threshold : Not available Not available Melting point Freezing point Not applicable Boiling point Not available Flammability Not self-igniting

Product is not explosive. Dust may form explosive mixture in air. Explosive properties

: Solid

Oxidising properties Non oxidizing. Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Not applicable Auto-ignition temperature Decomposition temperature Not available : Not available pН pH solution : Not available Viscosity, kinematic : Not applicable Viscosity, dynamic : Not applicable Solubility Water: Slightly soluble

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Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : Not available Relative density : Not available Relative vapour density at 20°C : Not applicable Particle size : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Other properties : Combustible

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

STOT-repeated exposure

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0) LD50 oral rat 700 mg/kg bodyweight Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation : May cause an allergic skin reaction. Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met) STOT-single exposure

Aspiration hazard : Not classified (Not relevant)

Lupulin Powder / Lupulin Pellets	
Viscosity, kinematic	Not applicable

: Not classified (Based on available data, the classification criteria are not met)

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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.

Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term :

(chronic)

: Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

Lupulin Powder / Lupulin Pellets		
Persistence and degradability The product has not been tested.		
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)		
Persistence and degradability Readily biodegradable, failing 10-d window.		
Biodegradation 26 % (28 d; (OECD 301D method))		

12.3. Bioaccumulative potential

Lupulin Powder / Lupulin Pellets		
Bioaccumulative potential The product has not been tested.		
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)		
Partition coefficient n-octanol/water (Log Pow) 4 – 5.5 (40 °C; pH 7; (OECD 117 method))		

12.4. Mobility in soil

Lupulin Powder / Lupulin Pellets		
Ecology - soil The product has not been tested.		
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)		
Organic Carbon Normalized Adsorption Coefficient 2.7 – 2.9 (Quantitative structure-activity relationship (QSAR))		
(Log Koc)		

12.5. Results of PBT and vPvB assessment

Lupulin Powder / Lupulin Pellets	
PBT: not relevant – no registration required	
vPvB: not relevant – no registration required	
Component	
hop oil (8007-04-3)	PBT: not relevant – no registration required
	vPvB: not relevant – no registration required
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
28-0)	

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Other adverse effects : No additional information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue. Do not dispose of with domestic waste. Do not discharge into drains or the environment.

Product/Packaging disposal recommendations

HP Code

: Recycle or dispose of in compliance with current legislation.

: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID r	number			
Not regulated for transport				
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard	class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental haz	zards		•	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	on available	•	•	

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations

: Take note of Directive 94/33/EC on the protection of young people at work.

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REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	
3(a)	hop oil	
3(b)	hop oil; 3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one	
3(c)	hop oil	
40.	hop oil	

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Employment restrictions : Employment prohibitions or restrictions on the protection of young people at work according

to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.

National Rules and Recommendations : TRGS 400: Risk Assessment for Activities involving Hazardous Substances.

TRGS 401: Risks resulting from skin contact - identification, assessment, measures.

TRGS 510: Storage of hazardous substances in non-stationary containers.

TRGS 520: Construction and operation of collection points and temporary storage for small

amounts of hazardous waste.

TRGS 900: Occupational Exposure Limits.

Water hazard class (WGK) : WGK 1, Slightly hazardous to water.

Storage class (LGK, TRGS 510) : LGK 11 - Combustible solids.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
	General revision			
1.1	CAS-No.	Removed		
1.1	EC-No.	Removed		
1.1	Chemical name	Removed		
1.1	Other means of identification	Added		
2.2	Precautionary statements	Modified		
2.3	Results of PBT and vPvB assessment	Modified		
3.1	Comments	Added		
3.1	Classification	Modified	Constituent: hop oil	

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Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LD50	Median lethal dose	
PBT	Persistent Bioaccumulative Toxic	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	
BCF	Bioconcentration factor	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
LC50	Median lethal concentration	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PNEC	Predicted No-Effect Concentration	
STP	Sewage treatment plant	
TLM	Median Tolerance Limit	
CAS-No.	Chemical Abstract Service number	

Data sources : Information provided by the manufacturer. European Chemicals Agency, http://echa.europa.eu/.

Department issuing data specification sheet: : KFT Chemieservice GmbH Im Leuschnerpark 3

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Other information : This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet. A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis. Version/s 1.00 is/are not

available in this language.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H412	Harmful to aquatic life with long lasting effects.	

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Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

KFT SDS EU 00 - Version 23.1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.