

# Tea Tree Essential oil

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  
Date of issue: 2019/02/18 Version: 1.0

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

#### 1.1. Product identifier

Product form	: Substance
Substance name	: Tea Tree Essential oil
Chemical name	: Melaleuca Alternifolia Oil
EC-No.	: 285-377-1
CAS-No.	: 85085-48-9 / 68647-73-4
REACH registration No	: 01-2120743651-57
Product code	: 109
Synonyms	: Tea Tree Chinese

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec	: For professional use only Industrial
Use of the substance/mixture	: Cosmetics

##### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Tiamo e.U.  
Weideckerstraße 27  
3004 Riederberg  
alexander.morgner@tiamo.at

### 1.4. Emergency telephone number

0664 3941526

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.  
H304 - May be fatal if swallowed and enters airways.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H411 - Toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P261 - Avoid breathing mist, spray, vapours. P264 - Wash hands, forearms and face thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331 - Do NOT induce vomiting. P332+P313 - If skin irritation occurs: Get medical advice/attention. 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. P370+P378 - In case of fire: Use carbon dioxide (CO <sub>2</sub> ), dry extinguishing powder, sand to extinguish. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P262 - Do not get in eyes, on skin, or on clothing.
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### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	: Tea Tree Essential oil	
CAS-No.	: 85085-48-9 / 68647-73-4	
EC-No.	: 285-377-1	

Name	Product identifier	%
Terpinene-4-ol	(CAS-No.) 562-74-3 (EC-No.) 209-235-5	> 30
gamma-Terpinene	(CAS-No.) 99-85-4 (EC-No.) 202-794-6	10 - 28
Cineole	(CAS-No.) 470-82-6 (EC-No.) 207-431-5	<= 15
Alpha Terpinene	(CAS-No.) 99-86-5 (EC-No.) 202-795-1	5 - 13
p-Cymene	(CAS-No.) 99-87-6 (EC-No.) 202-796-7	0,5 - 12
alpha-Terpineol	(CAS-No.) 98-55-5 (EC-No.) 202-680-6	1,5 - 8
Alpha-Pinene	(CAS-No.) 80-56-8 / 7785-26-4 (EC-No.) 201-291-9	1 - 6
Terpinolene	(CAS-No.) 586-62-9 (EC-No.) 209-578-0	1 - 5
L-Limonene	(CAS-No.) 5989-54-8 (EC-No.) 227-815-6 (EC Index-No.) 601-029-00-7	0,5 - 4

Full text of H-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 after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth. Get medical advice/attention.

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

Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide.
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#### 5.3. Advice for firefighters

Precautionary measures fire	: Evacuate area. Eliminate all ignition sources if safe to do so. Stop leak if safe to do so.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop leak if safe to do so. Remove ignition sources. Eliminate every possible source of ignition.
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##### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.
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##### 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".
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#### 6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: On land, sweep or shovel into suitable containers. Clean up any spills as soon as possible, using an absorbent material to collect it. Minimise generation of dust. Store away from other materials.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Alpha-Pinene (80-56-8 / 7785-26-4)

Germany	TRGS 910 Acceptable concentration notes	
USA - ACGIH	ACGIH TWA (ppm)	20 ppm

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Hand protection:

Protective gloves made of PVC

##### Eye protection:

Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### Personal protective equipment symbol(s):



##### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to pale yellow.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 97 - 220
Flash point	: 56 - 59 °C @ 20°C
Auto-ignition temperature	: 269 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

Refractive index	: 1.473 - 1.482 @ 20°C
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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. fume.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Tea Tree Essential oil (85085-48-9 / 68647-73-4)

LD50 oral rat	1900 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

#### Alpha-Pinene (80-56-8 / 7785-26-4)

LD50 oral rat	3700 mg/kg
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#### p-Cymene (99-87-6)

LD50 oral rat	4750 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

#### Cineole (470-82-6)

LD50 oral rat	2480 mg/kg
LD50 dermal	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l

#### L-Limonene (5989-54-8)

LD50 oral	> 2000 mg/kg
LD50 dermal	> 2000 ml/kg
LC50 inhalation rat (mg/l)	> 20 mg/l

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
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects. Before neutralisation, the product may represent a danger to aquatic organisms.
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Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects.

### p-Cymene (99-87-6)

LC50 fish 1	48 mg/l
EC50 Daphnia 1	6,5 mg/l

### L-Limonene (5989-54-8)

LC50 fish 1	0,1 - 1 mg/l
EC50 Daphnia 1	0,1 - 1 mg/l
ErC50 (algae)	0,1 - 1 mg/l

## 12.2. Persistence and degradability

### Terpinene-4-ol (562-74-3)

Persistence and degradability	Not established.
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### gamma-Terpinene (99-85-4)

Persistence and degradability	Not established.
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### Alpha Terpinene (99-86-5)

Persistence and degradability	Not established. May cause long-term adverse effects in the environment.
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### Terpinolene (586-62-9)

Persistence and degradability	Not established. May cause long-term adverse effects in the environment.
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### alpha-Terpineol (98-55-5)

Persistence and degradability	Not established.
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### Alpha-Pinene (80-56-8 / 7785-26-4)

Persistence and degradability	Not established. May cause long-term adverse effects in the environment.
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### p-Cymene (99-87-6)

Persistence and degradability	Not established. May cause long-term adverse effects in the environment.
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### Cineole (470-82-6)

Persistence and degradability	Not established.
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### L-Limonene (5989-54-8)

Persistence and degradability	Not established. May cause long-term adverse effects in the environment.
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## 12.3. Bioaccumulative potential

### Terpinene-4-ol (562-74-3)

Bioaccumulative potential	Not established.
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### gamma-Terpinene (99-85-4)

Bioaccumulative potential	Not established.
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### Alpha Terpinene (99-86-5)

Bioaccumulative potential	Not established.
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<b>Terpinolene (586-62-9)</b>								
Bioaccumulative potential	Not established.							
<b>alpha-Terpineol (98-55-5)</b>								
Bioaccumulative potential	Not established.							
<b>Alpha-Pinene (80-56-8 / 7785-26-4)</b>								
Bioaccumulative potential	Not established.							
<b>p-Cymene (99-87-6)</b>								
Bioaccumulative potential	Not established.							
<b>Cineole (470-82-6)</b>								
Bioaccumulative potential	Not established.							
<b>L-Limonene (5989-54-8)</b>								
Bioaccumulative potential	Not established.							
<b>12.4. Mobility in soil</b>								
No additional information available								
<b>12.5. Results of PBT and vPvB assessment</b>								
No additional information available								
<b>12.6. Other adverse effects</b>								
No additional information available								
<b>SECTION 13: Disposal considerations</b>								
<b>13.1. Waste treatment methods</b>								
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.							
Additional information	: Flammable vapours may accumulate in the container.							
<b>SECTION 14: Transport information</b>								
In accordance with ADR / RID / IMDG / IATA / ADN								
<b>ADR</b>	<b>IMDG</b>	<b>IATA</b>	<b>ADN</b>	<b>RID</b>				
<b>14.1. UN number</b>								
UN 1169	UN 1169	UN 1169	UN 1169	UN 1169				
<b>14.2. UN proper shipping name</b>								
EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID	Extracts, aromatic, liquid	EXTRACTS, AROMATIC, LIQUID	EXTRACTS, AROMATIC, LIQUID				
<b>Transport document description</b>								
UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1169 Extracts, aromatic, liquid, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS	UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS				
<b>14.3. Transport hazard class(es)</b>								
3	3	3	3	3				
								
<b>14.4. Packing group</b>								
III	III	III	III	III				

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14.5. Environmental hazards				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available				
14.6. Special precautions for user				
<b>Overland transport</b>				
Classification code (ADR)	: F1			
Special provisions (ADR)	: 601			
Limited quantities (ADR)	: 5L			
Excepted quantities (ADR)	: E1			
Packing instructions (ADR)	: P001, IBC03, LP01, R001			
Mixed packing provisions (ADR)	: MP19			
Portable tank and bulk container instructions (ADR)	: T2			
Portable tank and bulk container special provisions (ADR)	: TP1			
Tank code (ADR)	: LGBF			
Vehicle for tank carriage	: FL			
Transport category (ADR)	: 3			
Special provisions for carriage - Packages (ADR)	: V12			
Special provisions for carriage - Operation (ADR)	: S2			
Hazard identification number (Kemler No.)	: 30			
Orange plates	: 			
Tunnel restriction code (ADR)	: D/E			
EAC code	: 3YE			
<b>Transport by sea</b>				
Special provisions (IMDG)	: 223, 955			
Limited quantities (IMDG)	: 5 L			
Excepted quantities (IMDG)	: E1			
Packing instructions (IMDG)	: P001, LP01			
IBC packing instructions (IMDG)	: IBC03			
Tank instructions (IMDG)	: T2			
Tank special provisions (IMDG)	: TP1			
EmS-No. (Fire)	: F-E			
EmS-No. (Spillage)	: S-D			
Stowage category (IMDG)	: A			
Properties and observations (IMDG)	Usually consist of alcoholic solutions. Miscibility with water depends upon the composition.			
<b>Air transport</b>				
PCA Excepted quantities (IATA)	: E1			
PCA Limited quantities (IATA)	: Y344			
PCA limited quantity max net quantity (IATA)	: 10L			
PCA packing instructions (IATA)	: 355			
PCA max net quantity (IATA)	: 60L			
CAO packing instructions (IATA)	: 366			
CAO max net quantity (IATA)	: 220L			
Special provisions (IATA)	: A3			
ERG code (IATA)	: 3L			
<b>Inland waterway transport</b>				
Classification code (ADN)	: F1			
Special provisions (ADN)	: 601			
Limited quantities (ADN)	: 5 L			
Excepted quantities (ADN)	: E1			
Equipment required (ADN)	: PP, EX, A			

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Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

### Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 601
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T2
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

No REACH Annex XVII restrictions

Tea Tree Essential oil is not on the REACH Candidate List

Tea Tree Essential oil is not on the REACH Annex XIV List

Tea Tree Essential oil is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Tea Tree Essential oil is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

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H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

*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*