

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 4/2/2019 Version: 1.0

SECTION 1: Identification of the substa	ince/mixture and of the company/undertaking
1.1. Product identifier	incernixture and or the company/undertaking
Product form	: Substance
Substance name	: 1-Allyl-2-thiourea (1-(2-Propenyl)thiourea)
IUPAC name	: Tiosinamine
EC-No.	: 203-683-5
CAS-No.	: 109-57-9
Product code	: 16208131
Formula	: C4H8N2S
Product group	: Raw material
1.2. Relevant identified uses of the substan	ce or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Laboratory use,Industrial use,Professional use
Industrial/Professional use spec	: For professional use only
1.2.2. Uses advised against	
No additional information available	a abaat
1.3. Details of the supplier of the safety data Supplier	a Sheet
Scafell Organics	
Molekula Ltd	
Lingfield Way	
Darlington - England T +44 (0) 1949 823777 / +44 (0) 7590 545705	
info@molekula.com / kbowen@molekula.com - www	v.molekula.com
1.4. Emergency telephone number	
	+44 (0) 7590 545705
SECTION 2: Hazards identification	
SECTION 2: Hazards identification 2.1. Classification of the substance or mixto	ure
2.1. Classification of the substance or mixt	
2.1. Classification of the substance or mixtor Classification according to Regulation (EC) No. 1	1272/2008 [CLP]
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16	1272/2008 [CLP] H301
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3	1272/2008 [CLP] H301
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and env	1272/2008 [CLP] H301
 2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available 2.2. Label elements 	I272/2008 [CLP] H301 vironmental effects
 2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/ 	I272/2008 [CLP] H301 vironmental effects
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 2.1. Classification of the substance or mixta Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP) 	H301 Wironmental effects 2008 [CLP] GHS06 : Danger
 2.1. Classification of the substance or mixta Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and emono additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) 	H301 H301 Vironmental effects 2008 [CLP] GHS06 E Danger : H301 - Toxic if swallowed.
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and em No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP) Signal word (CLP)	H301 H301 Vironmental effects 2008 [CLP] I GHS06 I Danger I H301 - Toxic if swallowed. I P264 - Wash hands, forearms and face thoroughly after handling.
 2.1. Classification of the substance or mixtal Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and emono No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) 	H301 H301 Vironmental effects 2008 [CLP] : GHS06 : Danger : H301 - Toxic if swallowed. : P264 - Wash hands, forearms and face thoroughly after handling. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
 2.1. Classification of the substance or mixta Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 3 Full text of H statements : see section 16 Adverse physicochemical, human health and emono additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) 	H301 H301 Wironmental effects 2008 [CLP] I GHS06 I Danger I H301 - Toxic if swallowed. I P264 - Wash hands, forearms and face thoroughly after handling.
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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
1-Allyl-2-thiourea (1-(2-Propenyl)thiourea)	(CAS-No.) 109-57-9 (EC-No.) 203-683-5	100	
Full text of H-statements: see section 16		· · · · ·	

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3.2. Mixtures Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties persist : Get medical advice/attention.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and effects, b	oth acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Headache. May be harmful if inhaled. More severe symptoms are also possible.
Symptoms/effects after skin contact	: May cause skin irritation. May be harmful in contact with skin. Redness, pain. More severe symptoms are also possible.
Symptoms/effects after eye contact	: May cause severe irritation. redness, itching, tears. Blurred vision. More severe symptoms are also possible.
Symptoms/effects after ingestion	: Swallowing this material may result in health hazard. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms are also possible.

4.3. Indication of any immediate medical attention and special treatment needed Immediately call a POISON CENTER/doctor.

SECTION 5: Firefighting measures 5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ince or mixture
Hazardous decomposition products in case of fire	: Carbon oxides (CO, CO2). Nitrogen oxides. Sulphur oxides.
5.3. Advice for firefighters	
Precautionary measures fire	: Keep container tightly closed and away from heat, sparks and flame. Keep away from combustible materials.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measure	es
6.1. Personal precautions, protective equipr	ment and emergency procedures
General measures	: Isolate from fire, if possible, without unnecessary risk. Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.
Measures in case of dust release	: Keep upwind. Avoid creating or spreading dust. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Prevent entry to sewers and public waters. Notify aut	thorities if product enters sewers or public waters.
6.3. Methods and material for containment a	and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Shovel or sweep up and put in a closed container for disposal.

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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid creating or spreading dust. Provide local exhaust or general room ventilation.
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.
7.2. Conditions for safe storage, including an	ny incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container closed when not in use.
Incompatible products	: Strong oxidisers.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Storage area	: Store below 20 °C. Store in a dry place. Store in a closed container.
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available
8.2. Exposure controls
Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures.

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection: The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374 Material Penetration Standard Type Permeation Thickness (mm) EN 374 Disposable gloves Nitrile rubber (NBR) 6 (> 480 minutes) 0.11

Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts.

Туре	Use	Characteristics	Standard
Safety goggles, Face shield	Fine dust, Dust	tightly fitting safety goggles, With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	EN ISO 13982

Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 14387

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical p	properties
9.1. Information on basic physical and cl	
Physical state	: Solid
Appearance	: Crystals.
Molecular mass	: 116.19 g/mol
Colour	: Colourless. White to faint yellow.
Odour	: No data available.
Odour threshold	: No data available
pH	: 6.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 70 - 72 °C lit.
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 100 °C
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.11 g/mL at 25 °C
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

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
The product is non-reactive under normal condition	s of use, storage and transport.
10.2. Chemical stability	
Stable under recommended handling and storage of	conditions (see section 7).
10.3. Possibility of hazardous reactions	the second s
No dangerous reactions known under normal condi	tions of use.
10.4. Conditions to avoid	rfaces energies and other ignition equipped. No emplying
	rfaces, sparks, open flames and other ignition sources. No smoking.
10.5. Incompatible materials Strong oxidizers.	
10.6. Hazardous decomposition products	
No hazardous decomposition products known at ro	om temperature. Thermal decomposition generates : Carbon oxides (CO, CO2). Nitrogen oxides.
Sulphur oxides.	
SECTION 11: Toxicological information	n
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Toxic if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
1-Allyl-2-thiourea (1-(2-Propenyl)thiourea)	(109-57-9)
LD50 oral rat	200 mg/kg
Skin corrosion/irritation	: Not classified
	pH: 6.5
Additional information	Based on available data, the classification criteria are not met
Serious eye damage/irritation	: Not classified
, ,	pH: 6.5
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	· Not classified
Additional information	: Based on available data, the classification criteria are not met

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	o ()
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information		
12.1. Toxicity Acute aquatic toxicity :	Not classified	
Chronic aquatic toxicity :	Not classified	
1-AllyI-2-thiourea (1-(2-Propenyl)thiourea) (10	9-57-9)	
LC50 fish 1	3200 mg/l - Leuciscus idus melanotus - 48hr	
EC50 Daphnia 1	39 mg/l - Daphnia magna (Water flea) - 24hr	
12.2. Persistence and degradability		
1-Allyl-2-thiourea (1-(2-Propenyl)thiourea) (10	9-57-9)	
Persistence and degradability	No data available.	
12.3. Bioaccumulative potential		
1-Allyl-2-thiourea (1-(2-Propenyl)thiourea) (109-57-9)		
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
1-Allyl-2-thiourea (1-(2-Propenyl)thiourea) (109-57-9)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria	of REACH regulation, annex XIII	
12.6. Other adverse effects		
Additional information :	Avoid release to the environment.	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
2811	2811	2811	2811	2811
14.2. UN proper shipping name				
TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.	Toxic solid, organic, n.o.s.	TOXIC SOLID, ORGANIC, N.O.S.	TOXIC SOLID, ORGANIC, N.O.S.

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5 5 (- / (- /	3 (- ,		
Transport document description				
ORGANIC, N.O.S. (1-Allyl- 2-thiourea (1-(2- 2-thio	TOXIC SOLID, , N.O.S. (1-Allyl- urea (1-(2- hiourea)), 6.1, III	UN 2811 Toxic solid, organic, n.o.s. (1-Allyl-2- thiourea (1-(2- Propenyl)thiourea)), 6.1, III	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (1-Allyl- 2-thiourea (1-(2- Propenyl)thiourea)), 6.1, III	UN 2811 TOXIC SOLID, ORGANIC, N.O.S. (1-Allyl- 2-thiourea (1-(2- Propenyl)thiourea)), 6.1, III
14.3. Transport hazard class(es)		I	I	I
6.1	6.1	6.1	6.1	6.1
6	6	6	6	6
14.4. Packing group				
III	111			III
14.5. Environmental hazards				
Dangerous for the Dange environment : No enviro	erous for the onment : No pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available		1		
14.6. Special precautions for user				
Overland transport				
Classification code (ADR)	: T2			
Special provisions (ADR)	: 274	1, 614		
Limited quantities (ADR)	: 5kg]		
Excepted quantities (ADR)	: E1			
Packing instructions (ADR)	: P0	02, IBC08, LP02, R001		
Special packing provisions (ADR)	: B3			
Mixed packing provisions (ADR)	: MF	10		
Portable tank and bulk container instructio (ADR)	ons : T1			
Portable tank and bulk container special p (ADR)	provisions : TP	33		
Tank code (ADR)	: SG	AH, L4BH		
Tank special provisions (ADR)	: TU	15, TE19		
Vehicle for tank carriage	: AT			
Transport category (ADR)	: 2			
Special provisions for carriage - Bulk (ADF	R) : VC	1, VC2, AP7		
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV	13, CV28		
Special provisions for carriage - Operation	n (ADR) : S9			
Hazard identification number (Kemler No.)) : 60			
Orange plates		60 2811		
Tunnel restriction code (ADR)	: E			
EAC code	: 2X			
Transport by sea				
	: 22	3, 274		
Packing instructions (IMDG)	: 22: : P0			
Special provisions (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)		02		
Packing instructions (IMDG)	: P0	02		
Packing instructions (IMDG) IBC packing instructions (IMDG)	: P0 : IB0	02		
Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG)	: P0 : IB0 : B3	02 C08		
Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	: P0 : IBC : B3 : T1 : TP : F- <i>H</i>	02 008 33		
Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG)	: P0 : IB0 : B3 : T1 : TP	02 008 33		

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Properties and observations (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provisions (IATA)	: A3, A5
ERG code (IATA)	: 6L
Inland waterway transport	
Classification code (ADN)	: T2
Special provisions (ADN)	: 274, 614, 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	:T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: T2
Special provisions (RID)	: 274, 614
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60
14.7 Transport in bulk according to Annex	I of Marpol and the IBC Code

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 1-Allyl-2-thiourea (1-(2-Propenyl)thiourea) is not on the REACH Candidate List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: 1-Allyl-2-thiourea (1-(2-Propenyl)thiourea) is listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information		
Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.		
Other information : None.		
Full text of H- and EUH-statements:		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
H301	Toxic if swallowed.	

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.