

Füllschaum B1

Safety Data Sheet

according to Regulation (EU) 2015/830

Revision date: 2019/7/19 Version: 2.0



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

1.1. Product identifier

Product form : Mixture
Product name : Füllschaum B1

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : Foaming product
Polyurethane

1.2.2. Uses advised against

Restrictions on use : Use only by persons trained in the use of epoxy and polyurethane based materials

1.3. Details of the supplier of the safety data sheet

Manufacturer

Knauf Gips KG
Am Bahnhof 7
97346 Iphofen - Deutschland
T +49 932331-0 - F +49 932331-277
zentrale@knauf.de - www.knauf.de
E-mail address of competent person responsible for the SDS : sds-info@knauf.de

Technical information

Technical information service
T +49 (0)9001/31-2000 (see section 16)
knauf-direkt@knauf.de

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol 1	H222;H229
Acute Tox. 4 (Inhalation:gas)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT SE 3	H335
STOT RE 2	H373

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

GHS08

Signal word (CLP) : Danger

Hazardous ingredients : Polymethylene polyphenyl isocyanate

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Hazard statements (CLP)	: H222 - Extremely flammable aerosol. H229 - Pressurised container: May burst if heated. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H351 - Suspected of causing cancer. H373 - May cause damage to organs through prolonged or repeated exposure (if inhaled).
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Extra phrases	: Persons already sensitised to diisocyanates may develop allergic reactions when using this product Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used

2.3. Other hazards

Other hazards not contributing to the classification	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
tris(2-chloro-1-methylethyl)phosphate	(CAS-No.) 13674-84-5 (EC-No.) 237-158-7	1 -< 25	Acute Tox. 4 (Oral), H302
Polymethylene polyphenyl isocyanate	(CAS-No.) 9016-87-9 (REACH-no) 01-2119457024-46	> 25	Carc. 2, H351 Resp. Sens. 1, H334 Skin Sens. 1, H317 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	1 -< 10	Flam. Gas 1, H220 Press. Gas (Liq.), H280
isobutane, liquefied, under pressure	(CAS-No.) 75-28-5 (EC-No.) 200-857-2 (EC Index-No.) 601-004-00-0	1 -< 10	Flam. Gas 1, H220 Press. Gas (Liq.), H280
dimethyl ether, liquefied, under pressure	(CAS-No.) 115-10-6 (EC-No.) 204-065-8 (EC Index-No.) 603-019-00-8	1 -< 10	Flam. Gas 1, H220 Press. Gas

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

Symptoms/effects after inhalation	: Dry/sore throat. Cough. Respiratory tract irritation. Irritation of the nasal mucous membranes. Nosebleeding. Difficulty in breathing.
Symptoms/effects after skin contact	: Tingling/irritation of the skin.
Symptoms/effects after eye contact	: Irritation of the eye tissue. Causes eyes to water.
Symptoms/effects after ingestion	: No effects known.

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	: ABC-powder. BC-powder.
Unsuitable extinguishing media	: Water. Foam. Carbon dioxide (CO ₂).

5.2. Special hazards arising from the substance or mixture

Explosion hazard	: Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire	: On burning: release of (highly) toxic gases/vapours. On burning: release of harmful/irritant gases/vapours.

5.3. Advice for firefighters

Precautionary measures fire	: Cool down the containers exposed to heat with a water spray.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Stop engines and no smoking. No flames, no sparks. Eliminate all sources of ignition. Use spark-/explosionproof appliances and lighting system.
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6.1.1. For non-emergency personnel

Protective equipment	: Gloves. Protective goggles. Head/neck protection. Protective clothing.
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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Contain the spilled material by bunding.

6.3. Methods and material for containment and cleaning up

For containment	: Mechanically recover the product.
Methods for cleaning up	: Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
- Precautions for safe handling : Take precautionary measures against static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin. Remove soiled clothing promptly.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep cool. Keep out of direct sunlight. Use appropriate ventilation. Access forbidden to unauthorised personnel. Keep away from open flames, hot surfaces and sources of ignition.
- Incompatible products : Strong acids. Strong bases. Amines.
- Maximum storage period : 1 year
- Storage temperature : < 50 °C

7.3. Specific end use(s)

Comply with instructions for use (refer to technical sheet).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

dimethyl ether, liquefied, under pressure (115-10-6)		
EU	Local name	Dimethylether
EU	IOELV TWA (mg/m ³)	1920 mg/m ³
EU	IOELV TWA (ppm)	1000 ppm

8.2. Exposure controls

Appropriate engineering controls:

Use only non-sparking tools. Use spark-/explosionproof appliances and lighting system. Take precautionary measures against static discharge.

Hand protection:

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
protective gloves	Polyethylene	1 (> 10 minutes)	0,025		

Eye protection:

Type	Use	Characteristics	Standard
Sealed safety goggles			

Skin and body protection:

Wear proper protective equipment

Respiratory protection:

Device	Filter type	Condition	Standard
Respiratory protection	Type A	If conc. in air > exposure limit	



Thermal hazard protection:

Keep away from any flames or sparking source.

Consumer exposure controls:

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Avoid contact with skin, eyes and clothing. Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: Various.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: > 1
Relative density	: ≥ 0,9
Density	: 963 kg/m ³
Solubility	: Water: Insoluble
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

VOC content : 16,26 - 23,01 % (156,58 g/l - 221,55 g/l)

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Acids. Bases. Amines.

10.6. Hazardous decomposition products

On heating: release of toxic/combustible gases/vapours (hydrogen cyanide). Phosphorus oxides. Reacts with (some) acids: release of toxic and corrosive gases/vapours (nitrous vapours). At very high temperature: release of toxic and corrosive gases/vapours e.g.: hydrogen chloride. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

ATE CLP (gases)	4500 ppmv/4h
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Polymethylene polyphenyl isocyanate (9016-87-9)	
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	10000 mg/kg (OECD 402 method)

propane (74-98-6)	
LC50 inhalation rat (ppm)	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))

isobutane, liquefied, under pressure (75-28-5)	
LC50 inhalation rat (mg/l)	1443 mg/l (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))

dimethyl ether, liquefied, under pressure (115-10-6)	
LC50 inhalation rat (mg/l)	309 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (gases))
LC50 inhalation rat (ppm)	164000 ppm (Other, 4 h, Rat, Male, Experimental value, Inhalation (gases))

tris(2-chloro-1-methylethyl)phosphate (13674-84-5)	
LD50 oral rat	930 - 1550 mg/kg bodyweight (EU Method B.1 tris: Acute oral toxic – Acute toxic class method, Rat, Experimental value, Oral)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 5 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Weight of evidence, Inhalation (aerosol), 14 day(s))

Skin corrosion/irritation : Causes skin irritation.
 Serious eye damage/irritation : Causes serious eye irritation.
 Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
 Germ cell mutagenicity : Not classified
 Carcinogenicity : Suspected of causing cancer.
 Reproductive toxicity : Not classified
 STOT-single exposure : May cause respiratory irritation.
 STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure (if inhaled).
 Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Polymethylene polyphenyl isocyanate (9016-87-9)	
LC50 other aquatic organisms 1	> 1000 mg/l (96 h, Literature study)

propane (74-98-6)	
LC50 fish 1	24 mg/l (96 h, Pisces, Literature study)
LC50 fish 2	49,9 mg/l (96 h, Pisces, Fresh water, QSAR)
EC50 Daphnia 1	7 mg/l (48 h, Daphnia magna, Literature study)

isobutane, liquefied, under pressure (75-28-5)	
LC50 fish 1	9,89 mg/l (96 h, Pimephales promelas, QSAR)
EC50 72h algae (1)	7,15 mg/l (Algae, QSAR)

dimethyl ether, liquefied, under pressure (115-10-6)	
LC50 fish 1	> 4100 mg/l (Other, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value)
EC50 Daphnia 1	> 4400 mg/l (Other, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
EC50 96h algae (1)	154,9 mg/l (ECOSAR v1.00, Algae, QSAR)

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tris(2-chloro-1-methylethyl)phosphate (13674-84-5)	
LC50 fish 1	56,2 mg/l (96 h, Brachydanio rerio, Static system, Fresh water, Experimental value, GLP)
EC50 Daphnia 1	65 - 335 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Experimental value, GLP)
EC50 96h algae (1)	73 mg/l (OECD 201: Alga, Growth Inhibition Test, Selenastrum capricornutum, Experimental value, Growth rate)

12.2. Persistence and degradability

Polymethylene polyphenyl isocyanate (9016-87-9)	
Persistence and degradability	Not readily biodegradable in water.

propane (74-98-6)	
Persistence and degradability	Readily biodegradable in water.

isobutane, liquefied, under pressure (75-28-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.

dimethyl ether, liquefied, under pressure (115-10-6)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.

tris(2-chloro-1-methylethyl)phosphate (13674-84-5)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

Polymethylene polyphenyl isocyanate (9016-87-9)	
BCF fish 1	1 (Pisces, Literature study)
Log Pow	10,46 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

propane (74-98-6)	
BCF fish 1	9 - 25 (Pisces, QSAR)
Log Pow	1,09 - 2,8 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

isobutane, liquefied, under pressure (75-28-5)	
BCF fish 1	20 - 52 (Pisces, QSAR)
Log Pow	2,8 (Experimental value, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

dimethyl ether, liquefied, under pressure (115-10-6)	
Log Pow	0,1 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

tris(2-chloro-1-methylethyl)phosphate (13674-84-5)	
BCF fish 1	0,8 - 4,6 (42 day(s), Cyprinus carpio, Fresh water, Experimental value)
Log Pow	2,59 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

Polymethylene polyphenyl isocyanate (9016-87-9)	
Log Koc	9,078 - 10,597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Adsorbs into the soil.

propane (74-98-6)	
Surface tension	0,016 N/m (-47 °C)
Ecology - soil	Not applicable (gas).

isobutane, liquefied, under pressure (75-28-5)	
Ecology - soil	Not applicable (gas).

dimethyl ether, liquefied, under pressure (115-10-6)	
Surface tension	0,02 N/m (-40 °C)
Ecology - soil	Not applicable (gas).

tris(2-chloro-1-methylethyl)phosphate (13674-84-5)	
Log Koc	2,46 - 3,21 (log Koc, SRC PCKOCWIN v2.0, QSAR)

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tris(2-chloro-1-methylethyl)phosphate (13674-84-5)	
Ecology - soil	Low potential for adsorption in soil.

12.5. Results of PBT and vPvB assessment

Component	
tris(2-chloro-1-methylethyl)phosphate (13674-84-5)	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
propane (74-98-6)	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
isobutane, liquefied, under pressure (75-28-5)	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
dimethyl ether, liquefied, under pressure (115-10-6)	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
Polymethylene polyphenyl isocyanate (9016-87-9)	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

No additional information available






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Disposal must be done according to official regulations. Do not dispose of with domestic waste.
European List of Waste (LoW) code : 16 05 04* - gases in pressure containers (including halons) containing dangerous substances
15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
1950	1950	1950	1950	1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

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14.6. Special precautions for user

- Overland transport

Classification code (ADR) : 5F
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E0
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D

- Transport by sea

No data available

- Air transport

PCA Excepted quantities (IATA) : E0
PCA limited quantity max net quantity (IATA) : 30kgG

- Inland waterway transport

Classification code (ADN) : 5F
Limited quantities (ADN) : 1L
Excepted quantities (ADN) : E0

- Rail transport

Classification code (RID) : 5F
Limited quantities (RID) : 1L
Excepted quantities (RID) : E0
Transport category (RID) : 2

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

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 16,26 - 23,01 % (156,58 g/l - 221,55 g/l)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

This safety data sheet replaces the previous version of 2015/8/28. The following changes were made:

Other information : Technical information service (see point 1):
A call to Knauf Direkt will be charged at 0.39 € per minute. Callers, the telephone numbers of whom are not saved in the Knauf Gips KG address database, e.g. private property owners or noncustomers, will pay 1.69 € per minute from the German network. Callers using mobile telephones will be charged according to the network provider and tariff.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1

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Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Press. Gas	Gases under pressure
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Knauf 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.