

**Safety Data Sheet**according to the WHS Regulations  
Reference number: 30260

Issue date: 07-4-2022 Revision date: 07-4-2022 Supersedes: 18-3-2019 Version: 16.1

**SECTION 1: Product identifier****1.1. GHS Product identifier**

Product form : Mixture  
Trade name : AQUA KEM BLUE SACHETS  
Product code : 30260-TBV

**1.2. Other means of identification**

No additional information available

**1.3. Recommended use of the chemical and restrictions on use**

Recommended use : Additive for the waste-holding tank of mobile toilets.  
Restrictions on use : Not to be used for any purpose other than the one the product was designed for

**1.4. Details of manufacturer or importer****Manufacturer**

Theftord BV B.V.  
Nijverheidsweg 29  
P.O. Box 169  
Etten-Leur 4879 AP  
The Netherlands  
T +31(0)765042200 - F +31(0)765042300  
[sds@thetford.eu](mailto:sds@thetford.eu) - [www.thetford-europe.com](http://www.thetford-europe.com)

**Distributor**

Coast RV Pty Ltd  
74 Greenmount Drive  
East Tamaki, Auckland 2013  
New Zealand  
T +64 9 274 8700  
[enquiry@coastrv.co.nz](mailto:enquiry@coastrv.co.nz)

**Distributor**

Trailcom Limited Ltd  
15 Oak Road  
P.O. Box 98-861  
Manukau City, Manukau 2241  
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T +64 9 261 0295  
[trojan@trailcom.co.nz](mailto:trojan@trailcom.co.nz)

**Importer**

Theftord Australia Pty. Ltd. Ltd  
130-132 Freight Drive  
SOMERTON VIC 3062  
Australia  
T +61 3 9358 0700 - F +61 9357 7060  
[sds@thetford.eu](mailto:sds@thetford.eu) - <http://www.thetford.com.au>

**Distributor**

Lewis Gray Limited Ltd  
40G William Pickering Drive  
P.O. Box 302060  
North Harbour Auckland 0751  
New Zealand  
T +64 9 415 3348  
[sales@lewisgray.com](mailto:sales@lewisgray.com)

**1.5. Emergency phone number**

Emergency number : Theftord B.V. : +31 (0)76 5042200 (Reachable during office hours)

Country	Organisation/Company	Address	Emergency number	Comment
Australia	Emergency Response Service		1800 033 111	
Australia	Australia Poisons Information Centre (PIC)		13 11 26	
New Zealand	Emergency Response Service		0800 734 607	

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### SECTION 2: Hazard identification

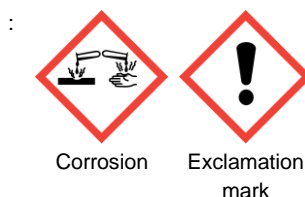
#### 2.1. Classification of the hazardous chemical

##### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335
Hazardous to the aquatic environment – Acute Hazard, Category 2	H401
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

#### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)



Signal word (GHS AU)

: Danger

Contains

: bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (10-30 %); Bornan-2-one (< 1 %)

Hazard statements (GHS AU)

: H315 - Causes skin irritation  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H401 - Toxic to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS AU)

: P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear face shield, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional hazard statements (GHS AU)

: Do not open sachets or handle with wet hands!

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : None under normal conditions.

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### SECTION 3: Composition and information on ingredients

Name	CAS-No.	%	Classification according to the model Work Health and Safety Regulations (WHS Regulations)
bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	52-51-7	10-30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Bornan-2-one	76-22-2	< 1	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 2, H371

### SECTION 4: First aid measures

#### 4.1. Description of necessary first-aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Not applicable (do not open sachets). In case of an accident (broken sachets), go into fresh air. If rapid recovery does not occur, obtain medical attention.
First-aid measures after skin contact	: Remove contaminated clothing and shoes. Flush with plenty of water. Seek medical attention if irritation develops.
First-aid measures after eye contact	: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Seek medical advice.
First-aid measures after ingestion	: Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.

#### 4.2. Symptoms caused by exposure

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.

#### 4.3. Medical attention and special treatment

Other medical advice or treatment	: Treat symptomatically.
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### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Foam. Carbon dioxide. Dry powder.
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#### 5.2. Specific hazards arising from the chemical

Fire hazard	: In case of fire, product can produce hazardous vapours and fumes.
General measures	: Clear up any spilled product immediately. In case of broken sachets, do not breath dust and wear suitable protective clothing, gloves and eye / face protection. In case of insufficient ventilation wear suitable respiratory equipment.

#### 5.3. Special protective equipment and precautions for fire-fighters

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.

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Hazchem Code : 2Z  
Other information : The product is not flammable.

### SECTION 6: Accidental release measures

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

General measures : Clear up any spilled product immediately. In case of broken sachets, do not breath dust and wear suitable protective clothing, gloves and eye / face protection. In case of insufficient ventilation wear suitable respiratory equipment.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent any contamination of surface water or groundwater by the undiluted product. Product should be treated (biological waste water treatment) before entering surface waters.

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

Methods for cleaning up : Collect the spilled product (mechanical) and avoid dust and store in a container. Next, rinse the contaminated surface with water and leave it to dry. Dispose of in accordance with the procedure set out in section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes.  
Hygiene measures : Wash hands immediately after handling the product.

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

Storage conditions : Store at temperatures below 40°C. Keep away from food, drink and animal feedingstuffs. Store away from alkalines, metals and oxidizing agents.

### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters - exposure standards

No additional information available

#### 8.2. Biological Monitoring

Monitoring methods : Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

#### 8.3. Engineering controls

No additional information available

#### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Avoid all unnecessary exposure.  
Hand protection : Wear protective gloves.  
Eye protection : Chemical goggles or safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

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### Personal protective equipment symbol(s)



Consumer exposure controls

: Read the instructions for use before handling and dispensing this product.

Other information

: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

Physical state	: Solid
Appearance	: Granular solid.
Colour	: Blue
Odour	: Pine.
Odour threshold	: No data available
pH	: 4 – 6 (10%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: Density: 1,05 – 1,15 g/ml
Solubility	: Water: 100 %
Partition coefficient n-octanol/water (Log Pow)	: No data available
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
VOC content	: 0,3 %
Fat solubility	: No data available

## SECTION 10: Stability and reactivity

Reactivity	: No additional information available
Chemical stability	: Stable up to 50°C. At an average temperature of 30°C, Aqua Kem Blue Sachets can be kept for several years. After a few years, there might be a slight reduction in strength.
Possibility of hazardous reactions	: Not established.
Conditions to avoid	: See section 7.
Incompatible materials	: No additional information available
Hazardous decomposition products	: According to process conditions, hazardous decomposition products may be generated. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

## SECTION 11: Toxicological information

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

<b>bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
LD50 oral rat	305 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	≥ 0,588 mg/l air Animal: rat

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<b>Bornan-2-one (76-22-2)</b>	
LD50 oral	1310 mg/kg bodyweight Animal: mouse, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LC50 Inhalation - Rat	0,5 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation	: Causes skin irritation. pH: 4 – 6 (10%)
Serious eye damage/irritation	: Causes serious eye damage. pH: 4 – 6 (10%)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

<b>bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
NOAEL (chronic, oral, animal/male, 2 years)	7 mg/kg bodyweight

Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.

<b>bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
STOT-single exposure	May cause respiratory irritation.

<b>Bornan-2-one (76-22-2)</b>	
STOT-single exposure	May cause damage to organs.

STOT-repeated exposure	: Not classified
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<b>bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
LOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: dog

Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

### 12.1. Ecotoxicity

Ecology - water	: Very toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.
Other information	: Avoid release to the environment.

<b>bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)</b>	
EC50 - Crustacea [1]	1,4 mg/l Test organisms (species): Daphnia magna
LOEC (chronic)	0,88 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0,27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	21,5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '49 d'

<b>Bornan-2-one (76-22-2)</b>	
LC50 - Fish [1]	35 – 50 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	110 mg/l Test organisms (species): Pimephales promelas

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### 12.2. Persistence and degradability

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Persistence and degradability	The surfactant used in this product shows a biodegradability of > 60 % (readily biodegradable), according to OECD 301 D, Closed Bottle Test (Information of manufacturer). The fragrance is > 60 % biodegradable according to OECD 301D, Closed Bottle Test.
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#### bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Biodegradation	70 – 80 % OECD 301B Ready Biodegradability, CO2 Evolution Test, 28 days
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### 12.3. Bioaccumulative potential

#### AQUA KEM BLUE SACHETS

Bioaccumulative potential	Not established.
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#### bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Bioaccumulative potential	Low bioaccumulation potential.
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### 12.4. Mobility in soil

#### bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Ecology - soil	No data available.
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### 12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

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Fluorinated greenhouse gases	False
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#### bronopol (INN); 2-bromo-2-nitropropane-1,3-diol (52-51-7)

Fluorinated greenhouse gases	False
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#### Bornan-2-one (76-22-2)

Fluorinated greenhouse gases	False
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## SECTION 13: Disposal considerations

Product/Packaging disposal recommendations	: Product residues should be treated as chemical waste in accordance with government regulations. Rinsed packaging may be used for recycling.
Ecology - waste materials	: Avoid release to the environment.




## SECTION 14: Transport information

ADG	IMDG	IATA
<b>14.1. UN number</b>		
3077	3077	3077
<b>14.2. UN Proper Shipping Name</b>		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bronopol (INN), 2-bromo-2-nitropropane-1,3-diol(52-51-7))	Environmentally hazardous substance, solid, n.o.s. (bronopol (INN), 2-bromo-2-nitropropane-1,3-diol(52-51-7))
<b>14.3. Transport hazard class(es)</b>		
9	9	9

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ADG	IMDG	IATA
		
<b>14.4. Packing group</b>		
III - Substances presenting low danger	III	III
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

### 14.6. Special precautions for user

Specific storage requirement : No data available  
Shock sensitivity : No data available

### 14.7. Additional information

Other information : No supplementary information available

#### Transport by road and rail

UN-No. (ADG) : 3077  
Special provision (ADG) : 179, 274, 331, 335, 375, AU01  
Limited quantities (ADG) : 5kg  
Packing instructions (ADG) : P002, IBC08, LP02  
Special packing provisions (ADG) : PP12, B3  
Portable tank and bulk container instructions (ADG) : T1, BK2, BK3  
Portable tank and bulk container special provisions (ADG) : TP33

#### Transport by sea

UN-No. (IMDG) : 3077  
Special provisions (IMDG) : 274, 335, 966, 967, 969  
Limited quantities (IMDG) : 5 kg  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : LP02, P002  
Special packing provisions (IMDG) : PP12  
IBC packing instructions (IMDG) : IBC08  
IBC special provisions (IMDG) : B3  
Tank instructions (IMDG) : BK1, BK2, BK3, T1  
Tank special provisions (IMDG) : TP33  
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE  
EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS  
Stowage category (IMDG) : A  
MFAG-No : 171

#### Air transport

UN-No. (IATA) : 3077  
PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y956  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 956  
PCA max net quantity (IATA) : 400kg  
CAO packing instructions (IATA) : 956  
CAO max net quantity (IATA) : 400kg  
Special provisions (IATA) : A97, A158, A179, A197  
ERG code (IATA) : 9L

### 14.8. Hazchem or Emergency Action Code

Hazchem Code : 2Z



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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations specific for the product in question

##### Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS Inventory) status : All the chemicals contained in this product are listed introductions

##### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Covered by The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) : This chemical is covered by the Standard for the Uniform Scheduling of Medicines and Poisons  
Relevant Poisons Schedule number : Unscheduled substance

#### 15.2. International agreements

No additional information available

### SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	Supersedes	Modified	
	Revision date	Modified	
	Australian Inventory of Industrial Chemicals (AICIS Inventory) status	Added	
1.2	Restrictions on use	Added	
2.1	Classification (GHS AU)	Modified	
2.2	Hazard pictograms (GHS AU)	Modified	
2.2	Precautionary statements (GHS AU)	Modified	
2.2	Hazard statements (GHS AU)	Modified	
3	Composition/information on ingredients	Modified	
4.3	Treatment	Added	
8	Monitoring methods	Added	
15.1	Relevant Poisons Schedule number	Added	

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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.

Revision date : 07/04/2022

Other information : None.

Classification	
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H335
Aquatic Acute 2	H401
Aquatic Chronic 3	H412

Full text of H-statements	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4

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Full text of H-statements	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Acute 2	Hazardous to the aquatic environment – Acute Hazard, Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Sol. 1	Flammable solids, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H228	Flammable solid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H371	May cause damage to organs
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), Australia

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.