EXCELIS MAXX

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 5/4/2016 Revision date: 9/12/2024 Supersedes: 8/30/2021 Version: 4.3

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : EXCELIS MAXX
Product code : TAUSA_EXCELISMAXX

1.2. Recommended use and restrictions on use

Recommended use : Agriculture, forestry, fishery

1.3. Supplier

Distributor
Timac Agro USA, INC. Inc.
Route 724 & I-176
P.O. Box 888
Reading, PA 19607, PENSYLVANIA
USA
T 1-800-545-5474
info-fds@roullier.com

1.4. Emergency telephone number

Country/Area	Organization/Company	Address	Emergency number	Comment
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)
USA	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Reproductive toxicity Category 2	H361	Suspected of damaging fertility or the unborn child (Dermal, Inhalation, oral)

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger
Hazard statements (GHS US) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction

Precautionary statements (GHS US)	:	H318 - Causes serious eye damage H361 - Suspected of damaging fertility or the unborn child (Dermal, Inhalation, oral) P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P302+P352 - If on skin: Wash with plenty of soap and water. 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 doctor or POISON CENTER. P308+P313 - If exposed or concerned: Get medical advice/attention.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Glycerol		CAS-No.: 56-81-5	≥ 50	Not classified
Benzyl alcohol		CAS-No.: 100-51-6	10 – 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319
Phosphorothioic triamide, N-butyl		CAS-No.: 94317-64-3	10 – 25	Eye Dam. 1, H318 Repr. 2, H361
2-aminoethanol		CAS-No.: 141-43-5	1 – 5	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Extractives and their physically modified derivatives. Allium sativum, Liliaceae		CAS-No.: 8000-78-0	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Skin Sens. 1, H317

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	:	If you feel unwell, seek medical advice (show the label where possible). Prompt treatment is essential to minimize damage.
First-aid measures after inhalation	:	Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse thoroughly and plentifully with water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Go into open air and ventilate suspected area. Do not induce vomiting without medical advice. Seek medical advice (show the label where possible).

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : see section(s) : 2.1/2.3).

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Causes serious eye damage.

Chronic symptoms : Suspected of damaging fertility.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : water, carbon dioxide (CO2), powder and foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid. Not flammable.

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2). Nitrogen oxides. Ammonia. Phosphorus oxides. Sulphur oxides.

5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire : Keep away from combustible material.

Firefighting instructions : Prevent fire-fighting water from entering environment. Contain the extinguishing fluids by bunding.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area.

6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Do not breathe vapors. Evacuate unnecessary personnel. Mark the danger area. Only qualified personnel equipped with suitable protective equipment may intervene.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment.

Emergency procedures : Ventilate area. Stop leak if safe to do so. Dike and contain spill.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Pump up the product into a suitably labeled spare container. Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors. Avoid contact with skin and eyes. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Handling temperature : ≥ 0 °C

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothes. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation. The floor of the depot should be impermeable and designed to form a water-tight basin. Comply with applicable regulations.

Storage conditions : Protect from sunlight. Store in a well-ventilated place. Store closed containers with closure in upper position. Keep out of reach of children.

Incompatible products : Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.

Storage temperature : 0 – 30 °C Store at ambient temperature. Protect from freezing.

Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

Storage area : Store away from heat. Store in a well-ventilated place.

Special rules on packaging : Keep only in original container. Store in a closed container.

Packaging materials : Plastic.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Glycerol (56-81-5)	
USA - OSHA - Occupational Exposure Limits	
Local name	Glycerin (mist)
OSHA PEL TWA	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

2-aminoethanol (141-43-5)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethanolamine
ACGIH OEL TWA	3 ppm

2-aminoethanol (141-43-5)	
ACGIH OEL STEL	6 ppm
ACGIH OEL Ceiling	3 ppm
Remark (ACGIH)	TLV® Basis: Eye & skin irr
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Ethanolamine
OSHA PEL TWA	6 mg/m³
	3 ppm
OSHA PEL STEL	6 ppm
OSHA PEL (Ceiling)	3 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	3 ppm
NIOSH REL (STEL)	6 ppm
NIOSH REL (Ceiling)	3 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.

Environmental exposure controls : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:
Protective clothing. Gloves. Safety glasses. Mist formation: aerosol mask. Wear a mask.

Materials for protective clothing:	
Wear suitable protective clothing	
Condition	**Material**
Excellent resistance:	Polyvinylchloride (PVC)

Hand protection:				
Chemical resistant PVC gloves (to European standard ISO 374-1 or equivalent)				
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**
Disposable gloves, Reusable gloves	Polyvinylchloride (PVC)			

Eye protection:		
Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. ISO 16321-1		
Type	**Field of application**	**Characteristics**
Safety glasses		With side shields

Skin and body protection:
Rubber boots
Type
Boots

Respiratory protection:		
Where excessive vapor may result, wear approved mask		
Device	**Filter type**	**Condition**
Reusable half mask, Disposable half mask, Aerosol mask	Type P2	vapor protection, Mist formation

Personal protective equipment symbol(s):

Other information:
See Heading 7 : 7.1. Precautions for safe handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	Blue
Odor	:	characteristic
Odor threshold	:	No data available
pH	:	9.2 – 9.8
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	> 170 °C
Flash point	:	> 93 °C
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density at 20°C	:	No data available
Relative density	:	No data available
Density	:	1.2 g/cm³
Solubility	:	Water: partly soluble
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosion limits	:	Not applicable
Explosive properties	:	Product is not explosive.
Oxidizing properties	:	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 conditions of use, storage and transport. In case of fire: See Heading 5.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. In case of fire: See Heading 5.

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
Additional information : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

EXCELIS MAXX	
Additional data	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Benzyl alcohol (100-51-6)	
LD50 oral rat	1230 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight EPA OTS 798.1100
ATE US (oral)	1230 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

Extractives and their physically modified derivatives. Allium sativum, Liliaceae (8000-78-0)	
LD50 oral rat	1360 mg/kg body weight Data sources : Safety Data Sheet Supplier
ATE US (oral)	500 mg/kg body weight

2-aminoethanol (141-43-5)	
LD50 oral rat	1089 mg/kg (OECD 401 method)
LD50 dermal rat	1822 mg/kg (OECD 402 method)

2-aminoethanol (141-43-5)	
ATE US (oral)	1089 mg/kg body weight
ATE US (dermal)	1822 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

Phosphorothioic triamide, N-butyl (94317-64-3)	
LD50 oral rat	2823 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.1 mg/l/4h
ATE US (oral)	2823 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
pH: 9.2 – 9.8

2-aminoethanol (141-43-5)	
pH	12.1

Serious eye damage/irritation : Causes serious eye damage.
pH: 9.2 – 9.8

2-aminoethanol (141-43-5)	
pH	12.1

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Reproductive toxicity : Suspected of damaging fertility or the unborn child (Dermal, Inhalation, oral).

STOT-single exposure : Not classified

EXCELIS MAXX	
Additional data	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

2-aminoethanol (141-43-5)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified

EXCELIS MAXX	
Additional data	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects : see section(s) : 2.1/2.3).

Symptoms/effects after skin contact : Irritation.

Symptoms/effects after eye contact : Causes serious eye damage.

Chronic symptoms : Suspected of damaging fertility.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. Do not allow into drains or water courses.

Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

Benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l
EC50 - Crustacea [1]	230 mg/l
EC50 72h - Algae [1]	770 mg/l

2-aminoethanol (141-43-5)	
LC50 - Fish [1]	349 mg/l Cyprinus carpio
EC50 - Crustacea [1]	65 mg/l (Daphnia magna, 48h)
EC50 72h - Algae [1]	4 mg/l Test method EU C.3
NOEC chronic fish	1.2 mg/l
NOEC chronic crustacea	0.85 mg/l
NOEC chronic algae	OECD 201 1 mg/l Pseudokirchneriella subcapitata (NF EN ISO 8692)

Phosphorothioic triamide, N-butyl (94317-64-3)	
LC50 - Fish [1]	96h 1140 mg/l Lepomis macrochirus (Bluegill)
EC50 - Crustacea [1]	290 mg/l (OECD 202 method)
EC50 - Other aquatic organisms [1]	280 mg/l Selenastrum capricornutum, 96 Hours
LC50 - Other aquatic organisms [2]	350 mg/l (Daphnia magna, 48h)

12.2. Persistence and degradability

EXCELIS MAXX	
Persistence and degradability	No studies of longer duration have been conducted at this time.
Biodegradation	Small adsorption

Benzyl alcohol (100-51-6)	
Persistence and degradability	Rapidly degradable

Extractives and their physically modified derivatives. Allium sativum, Liliaceae (8000-78-0)	
Persistence and degradability	Rapidly degradable

Glycerol (56-81-5)	
Persistence and degradability	Rapidly degradable

2-aminoethanol (141-43-5)	
Persistence and degradability	Readily biodegradable, according to appropriate OECD test.

Phosphorothioic triamide, N-butyl (94317-64-3)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

EXCELIS MAXX	
Bioaccumulative potential	Bioaccumulation unlikely. No studies of longer duration have been conducted at this time.

2-aminoethanol (141-43-5)	
Bioconcentration factor (BCF REACH)	< 100
Partition coefficient n-octanol/water (Log Pow)	-1.91
Bioaccumulative potential	Low bioaccumulation potential.

Phosphorothioic triamide, N-butyl (94317-64-3)	
Partition coefficient n-octanol/water (Log Kow)	0.444

12.4. Mobility in soil

2-aminoethanol (141-43-5)	
Mobility in soil	Very mobile

12.5. Other adverse effects

Other adverse effects : May cause eutrophication at very low concentration.
Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Discharging into rivers and drains is forbidden.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / TMD / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

TDG
Transport hazard class(es) (TDG) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT
No data available

TDG
No data available

IMDG
No data available

IATA
No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory		
Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S		
Phosphorothioic triamide, N-butyl	CAS-No. 94317-64-3	10 – 25%

15.2. International regulations

CANADA

Benzyl alcohol (100-51-6)
Listed on the Canadian DSL (Domestic Substances List)

Extractives and their physically modified derivatives. Allium sativum, Liliaceae (8000-78-0)
Listed on the Canadian DSL (Domestic Substances List)

Glycerol (56-81-5)
Listed on the Canadian DSL (Domestic Substances List)

2-aminoethanol (141-43-5)

Listed on the Canadian DSL (Domestic Substances List)

Phosphorothioic triamide, N-butyl (94317-64-3)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 9/12/2024

Data sources : Safety Data Sheet Supplier. Section 1.2, 8.1, 11 & 12 are based on components' Chemical Safety Report and/or datas from components' supplie.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of hazard classes and H-statements	
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child

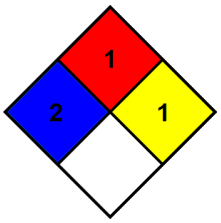
Abbreviations and acronyms	
ATE	Acute Toxicity Estimate
DNEL	Derived-No Effect Level
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50	Median effective concentration
DMEL	Derived Minimal Effect level

Abbreviations and acronyms	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
LC50	Median lethal concentration
SDS	Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
vPvB	Very Persistent and Very Bioaccumulative

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Personal protection : n - Splash goggles
p - Gloves
q - Boots

Indication of changes:		
Hazards identification. Physical and chemical properties. Toxicological information. Regulatory information.		
Section	**Changed item**	**Comments**
	Supersedes	**Modified**
	Revision date	**Modified**

Safety Data Sheet (SDS), USA

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.