

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

LANDMASTER 360 TF



Version 1 Date of compilation: 29/08/2016

Version 2 (replaces version 1)

Revision date: 27/05/2024

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1 Product identifier.

Product Name: LANDMASTER 360 TF
Registration number: 17683
Composition: 360 g/l glyphosate

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

Agricultural herbicide for professional use

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: Albaugh Europe Sàrl
Address: World Trade Center Lausanne Avenue Gratta-Paille 2
1018 - Lausanne
Switzerland
Phone: +41 21 799 9130
Fax: +41 21 799 9139
E-mail: msdn_valencia@albaugh.eu
Web: www.albaugh.eu

1.4 Emergency telephone number: (Available 24 hours)

UK National Poisons Information Service: +44 (0)121 507 4123 (For health professionals only). (24 hours).

Advice on medical emergencies, fires and major spills: +44 (0) 1235 239 670. 24 hours a day. All EU languages.

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008:

Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:



Hazard statements:

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P280 Wear protective gloves/protective clothing/eye protection/face protection

P391 Collect spillage.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH statements:

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Contains:

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Isopropylamine salt of glyphosate

SP1 Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

2.3 Other hazards.

The mixture does not contain substances classified as PBT.
The mixture does not contain substances classified as vPvB.
The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment. Keep livestock out of treated areas.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
CAS No: 38641-94-0 EC No: 254-056-8	Isopropylamine salt of glyphosate	=41,5%	Aquatic Chronic 2, H411	-
CAS No: 431040-31-2	2-Propanamine, compd. with alpha-phosphono-omega-butoxypoly(oxy-1,2-ethanediyl) (2:1), CAS: 431040-31-2	> 1 – < 5 %	Eye Dam. 1, H318 - Skin Irrit. 2, H315	-
CAS No: 67952-32-3 EC No: 267-885-5	(2-hydroxypropyl)ammonium phosphate	> 1 – < 5 %	Met. Corr. 1, H290 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318	-
CAS No: 71060-57-6	Ethoxylated alcohols C8-C10	> 1 – < 5 %	Acute Tox. 4, H302 - Eye Dam. 1, H318	-
Index No: 603-183-00-0 CAS No: 143-22-6 EC No: 205-592-6 Registration No: 01-2119475107-38-XXXX	2-[2-(2-butoxyethoxy)ethoxy]ethanol, TEGBE, triethylene glycol monobutylether, butoxytriethylene glycol	> 1 – < 5 %	Eye Dam. 1, H318	Eye Dam. 1, H318: C ≥ 30 % Eye Irrit. 2, H319: 20 % ≤ C < 30 %

(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.

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Inhalation.

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Eye contact.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Skin contact.

Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.

Ingestion.

Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately. Do not leave victim unattended.

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

No known acute or delayed effects from exposure to the product.

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

Request immediate medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

Treatment with atropine and oximes is not indicated. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended

SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 Extinguishing media.

Suitable extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

High volume water jet

5.2 Special hazards arising from the substance or mixture.

Special risks.

In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x), Oxides of phosphorus

5.3 Advice for firefighters.

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Fire protection equipment.

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. 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.

Use personal protective equipment. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Methods for cleaning up

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Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice

Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

6.4 Reference to other sections.

Information regarding safe handling, see section 7. Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep away from oxidising agents and from highly acidic or alkaline materials. Keep away from food, drink and animal feedingstuffs. Keep in original container, tightly closed in a safe place. Do not smoke. Prevent the entry of non-authorised persons.

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2	200	500

7.3 Specific end use(s).

Uses of the product indicated in the label.

Use reserved for farmers and professional users.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %
Uses:	Agricultural herbicide for professional use
Breathing protection:	
If the recommended technical measures are observed, no individual protection equipment is necessary.	
Hand protection:	

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PPE:	Protective gloves against chemicals.				
Characteristics:	«CE» marking, category III.				
CEN standards:	EN 374-1, EN 374-2, EN 374-3, EN 420				
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.				
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.				
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480	Material thickness (mm):	0,35
Eye protection:					
PPE:	Protective goggles against particle impacts.				
Characteristics:	«CE» marking, category II. Eye protector against dust and smoke.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
PPE:	Chemical protective clothing				
Characteristics:	«CE» marking, category III. Clothing should fit properly. The level of protection must be set according to a test parameter called BT (Breakthrough Time), which indicates how long it takes for the chemical to pass through the material.				
CEN standards:	EN 464, EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034				
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.				
Observations:	The protective clothing's design should facilitate correct positioning, staying in place without moving for the period of use expected, bearing in mind environmental factors as well as any movement or position the user might adopt while carrying out the activity.				
PPE:	Anti-static safety footwear against chemicals.				
Characteristics:	«CE» marking, category III. Check the list of chemicals against which the footwear is resistant.				
CEN standards:	EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO 20345				
Maintenance:	For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is observed.				
Observations:	The footwear should be cleaned regularly and dried when damp, although it should not be placed too close to a source of heat in order to avoid any sharp changes in temperature.				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Liquid

Colour: Yellow

Odour: characteristic

Odour threshold: Not available

Melting point: Not available

Freezing point: Not available

Boiling point or initial boiling point and boiling range: Not available

Flammability: Non-flammable

Lower explosion limit: Not available

Upper explosion limit: Not available

Flash point: Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

pH: 4,4 - 5,2 (23 °C) (deionized water) (5%)

Kinematic viscosity: 26,0 mm²/s (20 °C)

Solubility: Not available

Hydrosolubility: completely miscible

Liposolubility: Not available

Partition coefficient n-octanol/water (log value): Glyphosate: log Pow: -3,2

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Vapour pressure: Not available
Absolute density: 1,17 g/cm³ (20 °C)
Relative density: 1,171 (20 °C) Water at 4 °C
Relative vapour density: ca. 1,2 (20 °C)
Particle characteristics: Not available

9.2 Other information

Information with regard to physical hazard classes

Explosives:

Explosive properties: Not explosive

Oxidising liquids:

Oxidizing properties: Non-combustive

Other safety characteristics

Viscosity: 32,4 mPa.s (20 °C)

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

Stable under normal conditions.

10.2 Chemical stability.

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions.

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

10.4 Conditions to avoid.

Extremes of temperature and direct sunlight.

10.5 Incompatible materials.

Galvanised steel, Unlined mild steel Store only in the original container.

10.6 Hazardous decomposition products.

No decomposition products expected under normal conditions of use. Hazardous products of combustion: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

There are no tested data available on the product.

a) acute toxicity;

Glyphosate did not cause developmental toxicity in rats and rabbits.

Acute oral toxicity

ATE (Mix) > 5.000 mg/kg

Calculation method

Acute inhalation toxicity

Based on available data, the classification criteria are not met.

Acute dermal toxicity

ATE (Mix) > 5.000 mg/kg

Calculation method

b) skin corrosion/irritation;

No skin irritation

c) serious eye damage/irritation;

No eye irritation.

d) respiratory or skin sensitisation;

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Non-sensitizing.

e) germ cell mutagenicity;

Glyphosate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

f) carcinogenicity;

Glyphosate was not carcinogenic in lifetime feeding studies in rats and mice.

g) reproductive toxicity;

Glyphosate did not cause reproductive toxicity in a two-generation study in rats.

h) STOT-single exposure;

Glyphosate: Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;

Glyphosate did not cause specific target organ toxicity in experimental animal studies.

j) aspiration hazard;

Glyphosate did not cause specific target organ toxicity in experimental animal studies.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Toxicity to fish

LC50 (Fish) > 100 mg/l

Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)) 47 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient glyphosate.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 100 mg/l

Exposure time: 48 h

LC50 (Crassostrea gigas (Portuguese oyster)) 40 mg/l static test; Exposure time: 48 h

The value mentioned relates to the active ingredient glyphosate.

Chronic toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 12,5 mg/l

Exposure time: 21 d

The value mentioned relates to the active ingredient glyphosate.

Toxicity to aquatic plants

EC50 (algae) > 100 mg/l

Exposure time: 72 h

ErC50 (Skeletonema costatum) 13,5 mg/l

Growth rate; Exposure time: 72 h

The value mentioned relates to the active ingredient glyphosate.

Toxicity to other organisms

LD50 (Apis mellifera (bees)) > 100 mcg/bee (contact)

Exposure time: 48 h

The value mentioned relates to the active ingredient glyphosate.

LD50 (Apis mellifera (bees)) > 100 mcg/bee (oral)

Exposure time: 48 h

The value mentioned relates to the active ingredient glyphosate.

12.2 Persistence and degradability.

Glyphosate: Not rapidly biodegradable

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Glyphosate: Koc: 6920

12.3 Bioaccumulative potential.

Glyphosate: Does not bioaccumulate.

12.4 Mobility in soil.

Glyphosate: Immobile in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

Glyphosate: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
Follow the provisions of Directive 2008/98/EC regarding waste management.

Rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose safely. Do not re-use container for any purpose.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.
Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.
Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.
Transport document: Airway bill.

14.1 UN number or ID number.

UN No: UN3082

14.2 UN proper shipping name.

Description:
ADR/RID: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ISOPROPYLAMINE SALT OF GLYPHOSATE), 9, PG III, (-)
IMDG: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ISOPROPYLAMINE SALT OF GLYPHOSATE), 9, PG III, MARINE POLLUTANT
ICAO/IATA: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ISOPROPYLAMINE SALT OF GLYPHOSATE), 9, PG III

14.3 Transport hazard class(es).

Class(es): 9

14.4 Packing group.

Packing group: III

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14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-F

14.6 Special precautions for user.

Labels: 9



Hazard number: 90

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.

Proceed in accordance with point 6.

ADR LQ: 5 L

IMDG LQ: 5 L

ICAO LQ: 30 kg B

Note: If the net quantity per single or inner packaging is less than or equal to 5 litres (UN 3082) or 5 kg (UN 3077), these goods are exempt from the requirements of the transport regulations, in accordance with Special Provision 375 of the ADR, regulations for road transport, Section 2.10.2.7 of the IMDG code for maritime transport and Special Provision A197 of the IATA- regulations for air transport.

14.7 Maritime transport in bulk according to IMO instruments.

IBC Code: IBC03

SECTION 15: REGULATORY INFORMATION.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

EU Regulations

REGULATION (EC) No 1107/2009 of The European Parliament and of the Council of 21 October 2009 concerning the placing of plant protection products on the market and repealing Council Directives 79/117/EEC and 91/414/EEC.

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.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

COMMISSION REGULATION (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

National Regulations/legislation:

The Chemicals (Hazard Information & Packaging for Supply) Regulations 2009 (CHIP 4)

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Health and Safety at Work etc. Act 1974, as amended, the Control of Substances Hazardous to Health Regulations 1999 (COSHH), as amended.

15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION.

Complete text of the H phrases that appear in section 3:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4 : Acute toxicity (Oral), Category 4
Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2
Eye Dam. 1 : Serious eye damage, Category 1
Skin Irrit. 2 : Skin irritant, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

ADR:	Agreement concerning the International Carriage of Dangerous Goods by Road.
CEN:	European Committee for Standardization.
DMEL:	Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.
DNEL:	Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
PPE:	Personal protection equipment.
IATA:	International Air Transport Association.
ICAO:	International Civil Aviation Organization.
IMDG:	International Maritime Code for Dangerous Goods.
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>
<http://echa.europa.eu/>
Regulation (EU) 2020/878.
Regulation (EC) No 1907/2006.
Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the

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preparation, and it must not be considered as a guarantee of its properties.