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

1.1 Product identifier.

DANEVA Product Name: 20699 Registration number:

Composition: Mesotrione 100 g/L

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

F-mail: msdn_valencia@albaugh.eu

Web: www.albaugh.eu

1.4 Emergency telephone number: (Available 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 1: Very toxic to aquatic life with long lasting effects.

Eye Dam. 1 : Causes serious eye damage.

Repr. 2: Suspected of damaging fertility or the unborn child.

2.2 Label elements.

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

Pictograms:







Signal Word:

Danger

Hazard statements:

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P280 Wear protective gloves / eye protection.

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 a doctor/physician.

P391 Collect spillage.

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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.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

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. DO NOT ALLOW SPRAY from horizontal sprayers to fall within 5m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1m of the top of a ditch which is dry at the time of application.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

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:

	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
Identifiers			Classification	Specifics concentration limits and Acute toxicity estimate
	Mixture of Alcohols, C9-11-iso-, C10-rich, ethoxylated	>= 40% < 80%	Acute Tox. 4, H302 - Eye Dam. 1, H318	-
Index No: 609-064- 00-X CAS No: 104206-82-8	mesotrione(ISO), 2-[4-(methylsulfonyl)-2- nitrobenzoyl]-1,3cyclohexanedione	10%	Aquatic Acute 1, H400 (M=10) - Aquatic Chronic 1, H410 (M=10) - Repr. 2, H361d - STOT RE 2, H373	-
Index No: 607-750- 00-3 CAS No: 77-92-9 EC No: 201-069-1 Registration No: 01- 2119457026-42-XXXX	citric acid	>= 2,5% < 10%	Eye Irrit. 2, H319 - STOT SE 3, H335	-
CAS No: 111-87-5 EC No: 203-917-6 Registration No: 01- 2119486978-10-XXXX	1-Octanol	>= 2,5% < 10%	Eye Irrit. 2, H319	-

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

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4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Long-term chronic exposure may result in injury to certain organs or tissues.

Contact with eyes may cause irreversible damage.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

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:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

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

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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.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4 Reference to other sections.

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

For later elimination of waste, follow the recommendations under 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.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

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 far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

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

		Qualifying quantity (tonnes) for the application of	
Code	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Acute ${\bf 1}$ or Chronic ${\bf 1}$	100	200

7.3 Specific end use(s).

Use reserved for farmers and professional users.

Uses of the product indicated in the label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Occupational Exposure 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:					
PPE:	Particle filter mask				
Characteristics:	«CE» marking, category III. Made of filtering material, it covers nose, mouth and chin.				

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CFN standards: FN 149

Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it Maintenance:

should be replaced after use.

Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding Observations:

suitable use of the equipment.

Filter Type needed:

Hand protection:

Protective gloves against chemicals. PPE:

Characteristics: «CE» marking, category III.

CEN standards: EN 374-1, En 374-2, EN 374-3, EN 420

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 Maintenance:

adhesives.

Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Observations:

Always use with clean, dry hands.

Material thickness Breakthrough time Material: PVC (polyvinyl chloride) > 480 (min.): (mm):

Eye protection:

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

Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should Maintenance:

be disinfected periodically following the manufacturer's instructions.

Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, Observations:

scraping etc.

Skin protection:

CEN standards:

Observations:

PPE: Chemical protective clothing

«CE» marking, category III. Clothing should fit properly. The level of protection Characteristics:

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.

EN 464,EN 340, EN 943-1, EN 943-2, EN ISO 6529, EN ISO 6530, EN 13034

In order to guarantee uniform protection, follow the washing and maintenance instructions provided by Maintenance:

the manufacturer.

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.

Anti-static safety footwear against chemicals. PPF.

«CE» marking, category III. Check the list of chemicals against which the footwear Characteristics: is resistant.

EN ISO 13287, EN 13832-1, EN 13832-2, EN 13832-3, EN ISO 20344, EN ISO CEN standards:

For correct maintenance of this kind of safety footwear, it is necessary to observe the instructions Maintenance:

specified by the manufacturer. The footwear should be replaced as soon as any sign of damage is

observed.

The footwear should be cleaned regularly and dried when damp, although it should not be placed too Observations:

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: Beige

Odour: characteristic odour Odour threshold: Not available Melting point: >400 °C 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



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Decomposition temperature: Not available

pH: 2.8 (1%)

Kinematic viscosity: Not available Solubility: Not available Hydrosolubility: Not available Liposolubility: Not available

Partition coefficient n-octanol/water (log value): Mesotrione log Pow 1,49

Vapour pressure: Not available Absolute density: Not available

Relative density: 1,1 g/cm³, 20°C (OECD 109) Relative vapour density: Not available Particle characteristics: Not available

9.2 Other information

Information with regard to physical hazard classes

Explosives:

Explosive properties: Non-explosive

Oxidising liquids:

Oxidizing properties: Non oxidising

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008.

Splatters in the eyes can cause irritation and reversible damage.

a) acute toxicity;

Mesotrione 10% SC

Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rat > 2000 mg/kg LC50 Rat (mg/l) Inhalation > 5.05 mg/l/4 h

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

b) skin corrosion/irritation;

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

c) serious eye damage/irritation;

Product classified:

Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation;

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

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

f) carcinogenicity;

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

g) reproductive toxicity;

Product classified:

Reproductive toxicant, Category 2: Suspected of damaging fertility or the unborn child.

h) STOT-single exposure;

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

i) STOT-repeated exposure;

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

j) aspiration hazard;

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

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.

Mesotrione 100 g/L

Aquatic organism LC50 (96h) Oncorhynchus mykiss 34.8 mg product/L nom

EC50 (48h) Daphnia magna 91.4 mg product/L nom

ErC50 (72h) Pseudokirchneriella subcapitata 71.7 mg product/L nom

Bees LD50 (48h, acute oral) Apis mellifera 1626.1 µg /bee

NOED (120h, oral, chronic, larvae) 664 µg/larvae LD50 (96h, contact) Apis mellifera 265.9 µg/bee

NOEC (56d) Eisenia fetida 250 mg/kg soil bw

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.

No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Mesotrione Log Pow 1,49

Worms

12.4 Mobility in soil.

No information is available about the mobility 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.

No information is available about the results of PBT and vPvB assessment of the product.

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.



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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.

Waste classification according to the European Waste Catalogue:

02 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING

02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing

02 01 08 agrochemical waste containing hazardous substances

Waste classified as hazardous.

Method of treatment according to Directive 2008/98/EC:

Disposal

D10 Incineration on land

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.

ADR/RID: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS MESOTRIONE), 9, PG III, (-) IMDG: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS MESOTRIONE), 9, PG III,

MARINE POLLUTANT

UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS MESOTRIONE), 9, PG ICAO/IATA:

14.3 Transport hazard class(es).

Class(es): 9

14.4 Packing group.

Packing group: III

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

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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)

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. H318 Causes serious eye damage. H319 Causes serious eye irritation.

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H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure. H373

Very toxic to aquatic life. H400

H410 Very toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4: Acute toxicity (Oral), Category 4

Aquatic Acute 1: Acute toxicity to the aquatic environment, Category 1 Aquatic Chronic 1: Chronic effect to the aquatic environment, Category 1

Eye Dam. 1: Serious eye damage, Category 1 Eye Irrit. 2: Eye irritation, Category 2 Repr. 2: Reproductive toxicant, Category 2

STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2 STOT SE 3: Specific target organ toxicity following a single exposure, Category 3

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:

Agreement concerning the International Carriage of Dangerous Goods by Road. ADR:

BCF: Bioconcentration factor.

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.

EC50: Half maximal effective concentration. PPE: Personal protection equipment. IATA: International Air Transport Association. ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

NOEC: No observed effect concentration.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are

not expected in the environmental compartment.

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