# SAFETY DATA SHEET
(in accordance with Regulation (EU) 2020/878)

# ECOREX ACTION PLUS



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

**1.1 Product identifier.**

Product Name: ECOREX ACTION PLUS

National authorization number: 10358

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

Insecticides, acaricides and products to control other arthropods

**Uses advised against:**
Do not mix with other chemical products.
Uses other than those recommended.

**1.3 Details of the supplier of the safety data sheet.**

Company: **Mylva, S.A.**
Address: Via Augusta, 48, 6º 2ª
City: 08006 - Barcelona
Province: Barcelona
Telephone: +34 934153226
Fax: +34 934156344
E-mail: mylva@mylva.eu
Web: https://mylva.es/

**1.4 Emergency telephone number:** + 34 934153226 (Only available during office hours; Monday-Friday; 08:00-16:00)
NHS 111
Poison centre 01 809 2166

## SECTION 2: HAZARDS IDENTIFICATION.

**2.1 Classification of the substance or mixture.**
In accordance with Regulation (EU) No 1272/2008:
Aquatic Acute 1 : Very toxic to aquatic life.
Aquatic Chronic 1 : Very toxic to aquatic life with long lasting effects.
Carc. 2 : Suspected of causing cancer.
Skin Sens. 1 : May cause an allergic skin reaction.

**2.2 Label elements.**
**Labelling in accordance with Regulation (EU) No 1272/2008:**
Pictograms:



Signal Word:
**Warning**
Hazard statements:

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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Precautionary statements:

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/… |
| P391 | Collect spillage. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P501 | Dispose of contents/container to … |

Contains:
tetramethrin (ISO), (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop1-en-1-yl)cyclopropanecarboxylate
permethrin (ISO),m-phenoxybenzyl 3-(2,2dichorovinyl)-2,2-dimethylcyclopro panecarboxylate

Active substances:
permethrin (ISO);m-phenoxybenzyl 3-(2,2dichorovinyl)-2,2-dimethylcyclopro panecarboxylate, 15%;
2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether, 5%;
tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop1-en-1-yl)cyclopropanecarboxylate, 1%;

**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.

## 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 |
| Index No: 613-058-00-2<br>CAS No: 52645-53-1<br>EC No: 258-067-9 | permethrin (ISO),m-phenoxybenzyl 3-(2,2dichorovinyl)-2,2-dimethylcyclopro panecarboxylate | 12.75 - 17.25 % | Acute Tox. 4 *, H332 - Acute Tox. 4 *, H302 - Aquatic Acute 1, H400 (M=1000) - Aquatic Chronic 1, H410 (M=1000) - Skin Sens. 1, H317 | - |
| CAS No: 51-03-6<br>EC No: 200-076-7<br>Registration No: 01-2119537431-46-XXXX | 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether | 4.25 - 5.75 % | Aquatic Acute 1, H400 - Aquatic Chronic 1, H410 | - |

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| | | | | |
|---|---|---|---|---|
| Index No: 607-727-00-8<br>CAS No: 7696-12-0<br>EC No: 231-711-6 | tetramethrin (ISO), (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop1-en-1-yl)cyclopropanecarboxylate | 0.85 - 1.15 % | Acute Tox. 4, H302 - Aquatic Acute 1, H400 (M=100) - Aquatic Chronic 1, H410 (M=100) - Carc. 2, H351 - STOT SE 2, H371 | - |

(*) *The complete text of the H phrases is given in section 16 of this Safety Data Sheet.*
** See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.*

## SECTION 4: FIRST AID MEASURES.

**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.**
Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

**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.**
Long-term chronic exposure may result in injury to certain organs or tissues.
It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

**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 does not present any particular risk in case of fire.

**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.

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**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.

**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 45 º 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 1 or Chronic 1 | 100 | 200 |

**7.3 Specific end use(s).**
Insecticide against crawling insects
Insecticide against flying insects

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## 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.
Concentration levels DNEL/DMEL:

| Name | DNEL/DMEL | Type | Value |
|---|---|---|---|
| 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether<br>CAS No: 51-03-6<br>EC No: 200-076-7 | DNEL (Workers) | Inhalation, Chronic, Local effects | 0,222 (mg/m³) |
| | DNEL (Workers) | Inhalation, Chronic, Systemic effects | 3,875 (mg/m³) |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

### 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:** | **Insecticides, acaricides and products to control other arthropods** | | | | |
| **Breathing protection:** | | | | | |
| If the recommended technical measures are observed, no individual protection equipment is necessary. | | | | | |
| **Hand protection:** | | | | | |
| 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:** | | | | | |
| If the product is handled correctly, no individual protection equipment is necessary. | | | | | |
| **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. | | | | |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

*-Continued on next page.-*

**9.1 Information on basic physical and chemical properties.**
Physical state: Liquid
Colour: Blanco
Odour: Characteristic
Odour threshold: Not available
Melting point: Not available
Freezing point: <0 ºC
Boiling point or initial boiling point and boiling range: Not available
Flammability: Not available
Lower explosion limit: Not available
Upper explosion limit: Not available
Flash point: >65 ºC
Auto-ignition temperature: Not available
Decomposition temperature: Not available
pH: 4-7 (100%)
Kinematic viscosity: Not available
Solubility: Not available
Hydrosolubility: Not available
Liposolubility: Not available
Partition coefficient n-octanol/water (log value): Not available
Vapour pressure: Not available
Absolute density: Not available
Relative density: 1.01-1.05
Relative vapour density: Not available
Particle characteristics: Not applicable

**9.2 Other information**
Viscosity: Not available
Explosive properties: Not applicable/Not available due to the nature/properties of the product
Oxidizing properties: Not applicable/Not available due to the nature/properties of the product
Dropping point: Not available
Blink: Not available

## SECTION 10: STABILITY AND REACTIVITY.

**10.1 Reactivity.**
The product does not present hazards by their reactivity.

**10.2 Chemical stability.**
Unstable in contact with:
- Bases.

**10.3 Possibility of hazardous reactions.**
Neutralization can occur on contact with bases.

**10.4 Conditions to avoid.**
- Avoid contact with bases.

**10.5 Incompatible materials.**
Avoid the following materials:
- Bases.

**10.6 Hazardous decomposition products.**
Depending on conditions of use, can be generated the following products:
- Corrosive vapors or gases.

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## SECTION 11: TOXICOLOGICAL INFORMATION.

**11.1 Information on hazard classes as defined in Regulation (EC) Nº 1272/2008.**
There are no tested data available on the product.

a) acute toxicity;
Not conclusive data for classification.

Acute Toxicity Estimate (ATE):
Mixtures:
ATE (Oral) = 3.125 mg/kg

b) skin corrosion/irritation;
Not conclusive data for classification.

c) serious eye damage/irritation;
Not conclusive data for classification.

d) respiratory or skin sensitisation;
Product classified:
Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;
Not conclusive data for classification.

f) carcinogenicity;
Product classified:
Carcinogen, Category 2: Suspected of causing cancer.

g) reproductive toxicity;
Not conclusive data for classification.

h) STOT-single exposure;
Based on available data, the classification criteria are not met.

i) STOT-repeated exposure;
Not conclusive data for classification.

j) aspiration hazard;
Not conclusive data for classification.

**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.**
No information is available regarding the ecotoxicity of the substances present.

**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.

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**12.3 Bioaccumulative potential.**
**Information about the bioaccumulation of the substances present.**

| Name | Bioaccumulation | | | |
|---|---|---|---|---|
| | Log Pow | BCF | NOECs | Level |
| 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether<br>CAS No: 51-03-6 EC No: 200-076-7 | 4,75 | - | - | High |

**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.**
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.

## 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.

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**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., 9, PG III, (-)
IMDG: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN (ISO)M-PHENOXYBENZYL 3-(2,2DICHOROVINYL)-2,2-DIMETHYLCYCLOPRO PANECARBOXYLATE), 9, PG III, MARINE POLLUTANT
ICAO/IATA: UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, PG III

**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




Hazard number: 90
ADR LQ: 5 L
IMDG LQ: 5 L
ICAO LQ: 30 kg B

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.
Proceed in accordance with point 6.

**14.7 Maritime transport in bulk according to IMO instruments.**
The product is not transported in bulk.

## SECTION 15: REGULATORY INFORMATION.

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

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E1

Information related to Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products:

*-Continued on next page.-*

Numbers/approval status/national authorization: 10358

| Product Type | Group |
|---|---|
| Insecticides, acaricides and products to control other arthropods | Pest control |

| Active substances | Concentration % |
|---|---|
| permethrin (ISO);m-phenoxybenzyl 3-(2,2dichorovinyl)-2,2-dimethylcyclopro panecarboxylate<br>CAS No: 52645-53-1<br>EC No: 258-067-9 | 15 |
| 2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether<br>CAS No: 51-03-6<br>EC No: 200-076-7 | 5 |
| tetramethrin (ISO); (1,3-dioxo-1,3,4,5,6,7-hexahydro-2H-isoindol-2-yl)methyl 2,2-dimethyl-3-(2-methylprop1-en-1-yl)cyclopropanecarboxylate<br>CAS No: 7696-12-0<br>EC No: 231-711-6 | 1 |

Substances including by Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals:

| Name | |
|---|---|
| permethrin (ISO);m-phenoxybenzyl 3-(2,2dichorovinyl)-2,2-dimethylcyclopro panecarboxylate<br>CAS No: 52645-53-1<br>EC No: 258-067-9 | |
| **Annex I Part 1 - Subcategory** | **Limitation** |
| Pesticide in the group of plant protection products | Ban |

Kind of pollutant to water (Germany): WGK 3: Very hazardous to water. (Autoclassified according to the AwSV Regulations)

**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.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H351 Suspected of causing cancer.
H371 May cause damage to organs.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Classification codes:

Acute Tox. 4 : Acute toxicity (Inhalation), Category 4
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
Carc. 2 : Carcinogen, Category 2
STOT SE 2 : Specific target organ toxicity following a single exposure, Category 2
Skin Sens. 1 : Skin sensitiser, Category 1

Changes regarding to the previous version:

*-Continued on next page.-*

- Modification in the values of the physical and chemical properties (SECTION 9).

**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/RID: | European Agreement concerning the International Carriage of Dangerous Goods by Road. |
| AwSV: | Facility Regulations for handling substances that are hazardous for the water. |
| 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. |
| RID: | Regulations Concerning the International Transport of Dangerous Goods by Rail. |
| WGK: | Water hazard classes. |

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 (EU) 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.

*-End of safety data sheet.-*