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

# Food clearcoat for direct contact VA1005

Version 1 Date of compilation: 21/06/2021

Version 4 (replaces version 3) Revision date: 16/06/2023



Print date: 18/12/2023

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

#### 1.1 Product identifier.

Product Name: Food clearcoat for direct contact

Product Code: VA1005

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

Used for the varnishing of food contact products

# Uses advised against:

Uses other than those recommended.

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

Company: STARDUSTCOLORS SAS

Address: ZA de Tesan, plan Sud

City: 30126 Saint-Laurent-Des-Arbres

Country: FRANCE

Telephone: +33 4 66 50 61 66
E-mail: info@stardustcolors.com
Web: www.stardustcolors.com

**1.4 Emergency telephone number:** +33 1 45 42 59 59 (Only available during office hours; Monday-Thursday; 08:00-13:30;

14:30-18:00 Friday; 08:00-14:00)

#### **SECTION 2: HAZARDS IDENTIFICATION.**

# 2.1 Classification of the substance or mixture.

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

Acute Tox. 4: Harmful if inhaled. Acute Tox. 4: Harmful if swallowed.

# 2.2 Label elements.

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

Pictograms:



#### Signal Word:

# **Warning**

# Hazard statements:

H302+H332 Harmful if swallowed or if inhaled.

## Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash ... thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container to ...

#### Contains:

2-butoxyethanol, ethyleneglycol monobutyl ether, butyl cellosolve

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## 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:

|  |  |             | (*)Classification - Regulation (EC)<br>No 1272/2008   |   |
|--|--|-------------|---|---|
| Identifiers  | Name   | Concentrate | Classification  | Specifics<br>concentration<br>limits and Acute<br>toxicity estimate |
| Index No: 603-014-<br>00-0<br>CAS No: 111-76-2<br>EC No: 203-905-0<br>Registration No: 01-<br>2119475108-36-XXXX | [1] [2] 2-butoxyethanol, ethyleneglycol<br>monobutyl ether, butyl cellosolve | 2 - 10 %    | Acute Tox. 4,<br>H332 - Acute<br>Tox. 4, H302 -<br>Eye Irrit. 2,<br>H319 - Skin<br>Irrit. 2, H315 | Oral: ETA =<br>1200 mg/kg pc<br>(Armonizada<br>ATP15)               |

<sup>(\*)</sup> 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.

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. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance. The use of personal protective equipment is recommended for people providing first aid (see section 8).

# 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.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

#### 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. Do not induce vomiting. If the person vomits, clear the respiratory tract.

<sup>[1]</sup> Substance with a European Union exposure limit in the workplace (see section 8.1).

<sup>[2]</sup> Substance with a national workplace exposure limit (see section 8.1).

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#### **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.

#### 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 not classified as hazardous for the environment, avoid spillage as much as possible.

#### 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.

The product is not affected by Directive 2012/18/EU (SEVESO III).

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## 7.3 Specific end use(s).

Not available.

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.**

#### 8.1 Control parameters.

Work exposure limit for:

| Name                              | CAS No.  | Country                         | Limit value | ppm       | mg/m³      |
|-----------------------------------|----------|---------------------------------|-------------|-----------|------------|
|                                   | 111-76-2 | European<br>Union [1]           | Eight hours | 20 (skin) | 98 (skin)  |
|                                   |          |                                 | Short term  | 50 (skin) | 246 (skin) |
|                                   |          | United                          | Eight hours | 25        | 123        |
|                                   |          | Kingdom [2]                     | Short term  | 50        | 246        |
|                                   |          | Éire [3]                        | Eight hours | 20        | 98         |
| 2-butoxyethanol, ethyleneglycol   |          |                                 | Short term  | 50        | 246        |
| monobutyl ether, butyl cellosolve |          | United States<br>[4] (Cal/OSHA) | Eight hours | 20        |            |
|                                   |          |                                 | Short term  |           |            |
|                                   |          | United States<br>[5] (NIOSH)    | Eight hours | 5         |            |
|                                   |          |                                 | Short term  |           |            |
|                                   |          | United States<br>[6] (OSHA)     | Eight hours | 50        | 240        |
|                                   |          |                                 | Short term  |           |            |

<sup>[1]</sup> According both Binding Occupational Esposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

| Name             |                | DNEL/DMEL | Туре   | Value     |                                       |         |
|------------------|----------------|-----------|--------|-----------|---------------------------------------|---------|
| 2-butoxyethanol, | ethyleneglycol | monobutyl | ether, | DNEL      | Inhalation, Chronic, Systemic effects | 98      |
| butyl cellosolve |                |           |        | (Workers) |                                       | (mg/m³) |
| CAS No: 111-76-2 |                |           |        | , ,       |                                       | , ,     |
| EC No: 203-905-0 |                |           |        |           |                                       |         |

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:                 | Used for the varnishing of food contact products   |  |  |  |  |
| Breathing protection: |  |  |  |  |  |
| PPE:                  | Filter mask for protection against gases and particles.  |  |  |  |  |
| Characteristics:      | «CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.  |  |  |  |  |
| CEN standards:        | EN 136, EN 140, EN 405   |  |  |  |  |
| Maintenance:          | Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor. |  |  |  |  |

<sup>[2]</sup> According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive.

<sup>[3]</sup> According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

<sup>[4]</sup> California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

<sup>[5]</sup> National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health,

<sup>[6]</sup> Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

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Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach Observations: the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols:

P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer. Filter Type needed:

Hand protection:

Protective gloves against chemicals.

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.

Breakthrough time Material thickness Material: PVC (polyvinyl chloride) > 480 0,35 (min.): (mm)

Eye protection:

Protective goggles with built-in frame. PPF:

«CE» marking, category II. Eye protector with built-in frame for protection against Characteristics:

dust, smoke, fog and vapour.

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:

PPE: Protective clothing.

«CE» marking, category II. Protective clothing should not be too tight or loose in Characteristics:

order not to obstruct the user's movements.

CEN standards: EN 340

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

the manufacturer.

The protective clothing should offer a level of comfort in line with the level of protection provided in Observations:

terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level

of activity and the expected time of use.

PPE: Work footwear.

Characteristics: «CE» marking, category II. CEN standards: EN ISO 13287, EN 20347

This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should Maintenance:

not be used by other people.

Work footwear for professional use includes protection elements aimed at protecting users against any Observations:

injury resulting from an accident

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.**

#### 9.1 Information on basic physical and chemical properties.

Physical state: Liquid Colour: CHARACTERISTIC Odour: characteristic

Odour threshold: Not applicable/Not available due to the nature/properties of the product Melting point: Not applicable/Not available due to the nature/properties of the product Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: Not applicable/Not available due to the nature/properties of the product

Flammability: Not applicable/Not available due to the nature/properties of the product

Lower explosion limit: Not applicable/Not available due to the nature/properties of the product Upper explosion limit: Not applicable/Not available due to the nature/properties of the product

Flash point: > 60 °C

Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product Decomposition temperature: Not applicable/Not available due to the nature/properties of the product

pH: Not applicable/Not available due to the nature/properties of the product

Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product



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Solubility: soluble

Hydrosolubility: Not applicable/Not available due to the nature/properties of the product Liposolubility: Not applicable/Not available due to the nature/properties of the product

Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product

Vapour pressure: Not applicable/Not available due to the nature/properties of the product Absolute density: Not applicable/Not available due to the nature/properties of the product

Relative density: 1,05

Relative vapour density: Not applicable/Not available due to the nature/properties of the product Particle characteristics: Not applicable/Not available due to the nature/properties of the product

#### 9.2 Other information

Not applicable/Not available due to the nature/properties of the product

## **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.**

2-butoxyethanol and its acetate are easily absorbed by the skin and can cause noxious effects to the kidneys.

# 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;

Product classified:

Acute toxicity (Inhalation), Category 4: Harmful if inhaled. Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Inhalation) = 11 mg/l/4 h (Fumes)

ATE (Oral) = 500 mg/kg

b) skin corrosion/irritation;

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

c) serious eye damage/irritation;

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

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

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#### f) carcinogenicity;

Not conclusive data for classification.

#### g) reproductive toxicity;

Not conclusive data for classification.

#### h) STOT-single exposure:

Not conclusive data for classification.

## 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.

# 12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

| Name  | Bioaccumulation |     |       |          |
|---|-----------------|-----|-------|----------|
| Name  | Log Pow         | BCF | NOECs | Level    |
| 2-butoxyethanol, ethyleneglycol monobutyl ether, butyl cellosolve | 0,8             | -   | -     | Very low |
| CAS No: 111-76-2 EC No: 203-905-0                                 | 5,5             |     |       | 16.7.6   |

## 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.**

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#### 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.**

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

#### 14.1 UN number or ID number.

Transportation is not dangerous.

#### 14.2 UN proper shipping name.

Description:

ADR/RID: Not classified as hazardous for transport. IMDG: Not classified as hazardous for transport.

ICAO/IATA: Not classified as hazardous for transport.

#### 14.3 Transport hazard class(es).

Transportation is not dangerous.

#### 14.4 Packing group.

Transportation is not dangerous.

#### 14.5 Environmental hazards.

Transportation is not dangerous.

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): Not applicable.

#### 14.6 Special precautions for user.

Transportation is not dangerous.

## 14.7 Maritime transport in bulk according to IMO instruments.

Transportation is not dangerous.

## **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.

Volatile organic compound (VOC)

VOC content (p/p): 4 % VOC content: 41,6 g/l

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

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

#### 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:

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H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

#### Classification codes:

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

Eye Irrit. 2: Eye irritation, Category 2 Skin Irrit. 2: Skin irritant, Category 2

#### Changes regarding to the previous version:

- Change in the hazard classification (SECTION 2.1).
- Removal of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Addition of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Modification of specific hazards (SECTION 2.3).
- Changes in the composition of the product (SECTION 3.2).
- Modifications in the first aid measures (SECTION 4.1).
- Modification in the firefighting measures (SECTION 5.2).
- Modifications in the accidental release measures (SECTION 6.1).
- Modifications in the handling and storage precautions (SECTION 7.1).
- Modifications in the handling and storage precautions (SECTION 7.2).
- Modification of exposure data (SECTION 8.1).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Change in the hazard classification (SECTION 11.1).
- Modification of ecological information values (SECTION 12.3).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- National legislative changes (SECTION 15.1).
- Elimination of abbreviations and acronyms (SECTION 16).

# 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:

Bioconcentration factor. BCF:

CEN: European Committee for Standardization.

Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be DMEL:

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. LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

NOEC: No observed effect concentration.

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.

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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.