

SAFETY DATA SHEET

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

SODIUM POLY ACRYLATE



Version 1 Date of compilation: 20/05/2021
Version 2 (replaces version 1) Revision date: 22/04/2024

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

1.1 Product identifier.

Product Name: **SODIUM POLY ACRYLATE**

Chemical Name: Sodium poly acrylate; 2-propenoic acid, homopolymer, sodium salt; Poly(acrylic acid sodium salt); Acrylic acid homopolymer, sodium salt; Carboxy vinyl polymer, sodium salt; Poly(sodium acrylate)

Formula: $(C_3H_3NaO_2)_n$

CAS No: 9003-04-7

Registration No: Exempt, polymer.

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

Industrial use.

Uses advised against:

All uses not specified in this section or in section 7.3. Due to lack of experience or data, the supplier cannot approve other unspecified use.

1.3 Details of the supplier of the safety data sheet.

Company: **ALQUERA CIENCIA SL**

Address: C/ Vilar de Donas 9

City: 28050 - Madrid

Province: Madrid (Spain)

Telephone: 0034 620 88 75 97

E-mail: info@alquera.com

Web: <https://www.alquera.com>

1.4 Emergency telephone number:

0034 620 88 75 97 (SDS) (Only available during office hours; Monday-Friday; 09:00-18:00)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

The product is not classified as hazardous within the meaning of Regulation (EC) No 1272/2008.

2.2 Label elements.

The product is not classified as hazardous within the meaning of Regulation (EC) No 1272/2008.

2.3 Other hazards.

Substance is not PBT.

Substance is not vPvB.

Substance does not have endocrine disrupting properties.

Dust generation. An explosive dust/air mixture may be formed if dispersed.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Polymer.

Chemical name: Sodium poly acrylate; 2-propenoic acid, homopolymer, sodium salt; Poly(acrylic acid sodium salt); Acrylic acid homopolymer, sodium salt; Carboxy vinyl polymer, sodium salt ; Poly(sodium acrylate)

CAS No: 9003-04-7

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Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
CAS No: 9003-04-7	Sodium poly acrylate	90 - 100 %	-	-

3.2 Mixtures.

Not applicable.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

Due to the composition and type of the substances present in the product, no particular warnings are necessary.

Inhalation.

If breathing stops, seek emergency medical attention. 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. Do not let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing.

Ingestion.

Keep calm. NEVER induce vomiting.

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

Exposure to concentrations above legal or recommended exposure limits may cause irritation of the nose, throat or lungs.

Adverse symptoms may include the following:

eyes: tearing, redness

inhalation: coughing, respiratory tract irritation

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.

SECTION 5: FIREFIGHTING MEASURES.

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.

Fire may produce thick black smoke. As a result of thermal decomposition, hazardous products may be formed: carbon monoxide, carbon dioxide, metal oxides. Exposure to combustion or decomposition products may be harmful to health.

Additional information:

Avoid dusting of the substance/product due to the risk of explosion.

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.

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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. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

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

Avoid dust formation.

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.

The product does not require special handling measures, the following general measures are recommended:

For personal protection, see section 8.

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

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

When transferring large quantities without suction device: respiratory protection. Avoid formation and accumulation of dust.

7.2 Conditions for safe storage, including any incompatibilities.

The product does not require special storage measures. As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided.

Keep away from oxidizing agents and from highly acidic or alkaline materials.

Store the containers in a dry and well-ventilated place.

Store according to local legislation. Observe indications on the label. 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).

7.3 Specific end use(s).

See section 1.2. Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

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

The environmental limit value for general dust (INSST, Spain) is:

- VLA-ED particles not otherwise specified. Inhalable fraction 10 mg/m³

- VLA-ED Particulates not otherwise specified. Respirable fraction 3 mg/m³

This is a dusty product. The workplace exposure limit for dust (USA-OSHA) is:

- 8-hour TWA inhalable dust: 10 mg/m³

- 8-hour TWA respirable dust: 5 mg/m³

It is recommended that the occupational exposure limit values established for inert dusts not otherwise classified be considered in the risk assessment process. If these limits are exceeded, it is recommended to use a P-type filter whose class (1, 2 or 3) should be chosen depending on the outcome of the risk assessment.

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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. Individual protection measures, such as personal protective equipment As a preventative measure it is recommended to use basic Personal Protective Equipment, in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

Respiratory protection

The use of protective equipment will be necessary in case of mist formation or in case of exceeding occupational exposure limits if they exist (see section 8.1). Wear respiratory protection in case of spray application/dust generation.

Specific protection for the hands

Replace the gloves at any sign of deterioration. Penetration time >480 min (permanent contact protection). The breakthrough time of the selected gloves should be in accordance with the intended period of use. Various factors (e.g. temperature) mean that in practice the breakthrough time of chemical-resistant protective gloves is significantly shorter than the EN374 standard. An increase in temperature due to hot substances, body heat, etc. and a weakening of the effective thickness due to expansion can lead to a significant shortening of the breakthrough time. For the selection of a specific type of glove for a given application, with a certain duration, should take into account (but not be limited to) relevant factors in the workplace, such as: other chemicals to be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential allergies to the glove material itself, etc.... Due to the wide variety of circumstances and possibilities, the instruction manual of the glove manufacturers should be taken into account. Gloves should be replaced immediately if signs of degradation are observed.

Additional emergency measures

Emergency shower: ANSI Z358-1, ISO 3864-1:2011, ISO 3864-4:2011

Eyewash stations: DIN 12 899, ISO 3864-1:2011, ISO 3864-4:2011

Recommendations to prevent toxicological risks:

Do not eat, drink or smoke during handling. After handling, wash hands with soap and water.

Advice on personal protection is valid for high levels of exposure.

Choose personal protection adapted to the risks of exposure.

Concentration:	100 %		
Uses:	Industrial use.		
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 143, EN 149, 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.		
Observations:	Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach 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:	P1 (white)		
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)/nitrile rubber	Breakthrough time (min.): > 480	

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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:	Protective clothing.
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.
CEN standards:	EN 340
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in 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
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Appearance:

Physical state (20°C): granular and powdery solid.

Colour: white.

Odour: odourless.

Odour threshold: Not applicable/Not available due to the nature/properties of the product.

Volatility:

Boiling point or initial boiling point and boiling range: N.A. The product is a non-volatile solid.

Vapour pressure: < 10 hPa.

Relative vapour density: The product is a non-volatile solid.

Evaporation rate : The product is a non-volatile solid.

Flammability:

Flammability: non-flammable.

Lower explosion limit: N.A.

Upper explosion limit: N.A.

Flash point: non-flammable, > 60°C.

Auto-ignition temperature: N.A.

Product description:

Melting/ Freezing point: N.A.

Decomposition temperature: ≥ 140 °C.

pH: 6.0 (0.9% NaCl).

Kinematic viscosity (40°C): Not applicable, solid.

Dynamic viscosity (20°C): Not applicable, solid.

Solubility: insoluble in water, only swelling occurs. Mixable with water.

Hydrosolubility: insoluble, only swelling occurs. Mixable with water.

Liposolubility: N.A.

Partition coefficient n-octanol/water (log value): N.A.

Relative density: 0.7 g/cm³ (bulk density (660 kg/m³)).

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Particle characteristics:

Average diameter/size: Not available.

N.A.= Not Available/Non- Applicable due to the nature of the product, not providing information property of its hazards

9.2 Other information:

Explosive properties: There are no chemical groups associated with explosive properties present.

Oxidizing properties: non-oxidizing. Based on the chemical structure, the product is incapable of exothermically reacting with combustible materials.

Drop point: N.A.

Scintillation: N.A.

% Solids: 100%

N.A.= Not Available/Non- Applicable due to the nature of the product, not providing information property of its hazards

The data corresponding to the product specifications can be found in the product technical data sheet. For further data on physical and chemical properties related to safety and environment, see sections 7 and 12.

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity under the recommended handling and storage conditions (see section 7).

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

The supplied product is not explosive, however, the concentration of dust may cause an explosion hazard.

The product is stable if the regulations/indications on storage and handling are taken into consideration.

10.4 Conditions to avoid.

Avoid any improper handling.

Avoid creating dust when in use and avoid any possible source of ignition (spark or flame). Take precautionary measures against the accumulation of electrostatic charges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding the grounding, containers and equipment before transferring the material.

Avoid accumulation of dust.

Protect from moisture. Hygroscopic. Sensitive to moisture.

10.5 Incompatible materials.

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

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

As a result of thermal decomposition, hazardous products may be formed: carbon monoxide, carbon dioxide, metal oxides.

SECTION 11: TOXICOLOGICAL INFORMATION.

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

Products in powder form: Exposure to airborne concentrations above legal or recommended exposure limits may cause irritation of the nose, throat or lungs.

Exposure to concentrations above legal or recommended exposure limits may cause mild eye irritation (redness, tearing).

Although the product is not irritating, direct contact with the eyes may cause discomfort characterized by tearing or redness due to mechanical contact/abrasion.

Mechanical/abrasive skin contact may cause redness.

Toxicological information.

Routes of exposure for solids and liquids are ingestion and inhalation but may include skin or eye contact.

a) acute toxicity;

Not conclusive data for classification.

Product in powder form: exposure to airborne concentrations above legal or recommended exposure limits may cause irritation of the nose, throat or lungs.

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Name	Acute toxicity			
	Type	Test	Kind	Value
Sodium poly acrylate CAS No: 9003-04-7	Oral	LD50	Rat	>5000 mg/kg > 40000 mg/kg [1] 1] Proceedings of the Scientific Section of the Toilet Goods Association. Vol. 20, Pg. 16, 1953.(GESTIS DATABASE)
	Dermal			
	Inhalation			

b) skin corrosion/irritation;
Not conclusive data for classification.
Mechanical/abrasive skin contact may cause redness.

c) serious eye damage/irritation;
Not conclusive data for classification.
Exposure to concentrations above legal or recommended exposure limits may cause mild eye irritation (redness, tearing).

d) respiratory or skin sensitisation;
Not conclusive data for classification.

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

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 $\geq 0.1\%$.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

This product is not classified as dangerous for the environment according to the classification criteria of the CLP Regulation.

Name	Ecotoxicity			
	Type	Test	Kind	Value
Sodium poly acrylate CAS No: 9003-04-7	Fish	EC50	Ps.putida	> 6000 mg/l (24 h) [1]
		LC50	Leuciscus idus	> 5500 mg/l (96h) [2]
		LC50	Danio rerio	> 4000 mg/l (96 h) [3]
		[1] Method: DEV L 8 [2] OECD 203 [3] OECD 203		
	Aquatic invertebrates			
	Aquatic plants			

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12.2 Persistence and degradability.

No information is available regarding the biodegradability
No information is available on the degradability
No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation.

12.4 Mobility in soil.

No information is available about the mobility in soil.
Behaviour in sewage treatment plants:
The product is easily removed due to its insolubility in sewage treatment plants.
The substance does not evaporate into the atmosphere from the water surface.
Absorption onto solid soil particles is not foreseeable.

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.

The product does not meet the criteria to be considered PBT or vPvB according to Regulation (EC) No 1907/2006 (REACH), Annex XIII.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties $\geq 0,1\%$.

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.

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations. In case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See section 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated Community legislation:
Follow the provisions of Directive 2008/98/EC, Decision 2014/955/UE, Directive (UE) 2018/851, Directive (UE) 2019/904 regarding waste management. EU-legislation: Regulation (EU) No. 1357/2014 and modifications.

It is not possible to assign a specific code, as it depends on the user's intended use.

SECTION 14: TRANSPORT INFORMATION.

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

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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.

Not classified as hazardous for transport.

SECTION 15: REGULATORY INFORMATION.

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

Volatile organic compound (VOC)

VOC content (p/p): 0 %

VOC content: 0 g/l

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.

Kind of pollutant to water (Germany): WGK 1: Slightly hazardous to water. (Autoclassified according to the AwSV Regulations)

Lagerklasse 10 - 13 (Other liquids and solids).

15.2 Chemical safety assessment.

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

SECTION 16: OTHER INFORMATION.

Legislation related to safety data sheets:

The Safety Data Sheet shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Changes regarding to the previous version:

-Update to Regulation (EU) 2020/878.

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 recommended that the product only be employed for the purposes advised.

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Abbreviations and acronyms used:

AwSV: Facility Regulations for handling substances that are hazardous for the water.
CEN: European Committee for Standardization.
CLP: Regulation (EC) No. 1272/2008 on classification, labeling and packaging.
EC50: Half maximal effective concentration.
EN: European Standard.
PPE: Personal protection equipment.
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
LOAEL: Lowest observed adverse effect level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
NOEC: No Observed Effect Concentration.
OECD: Organization for Economic Cooperation and Development.
SDS: Safety Data Sheet.
VLA/OEL: Occupational exposure limit.
VLB/ELV: Biological limit value.
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 (EC) No 1272/2008.
Supplier Safety Data Sheet of the raw materials.
GESTIS SUBSTANCE DATABASE.

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.