

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)

## KGS72SW GL MERLOT-GLZD.

Version 1      Date of compilation: 29/05/2019



**REIMBOLD & STRICK**

Handels- und Entwicklungsgesellschaft  
für chemisch-keramische Produkte mbH

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

#### 1.1 Product identifier.

Product Name:                      KGS72SW GL MERLOT-GLZD.  
UFI:                                      F450-Q03A-700P-R6JH

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

Ceramic use.

#### Uses advised against:

Uses other than those recommended.

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

Company:                      **REIMBOLD UND STRICK**  
Address:                      Hansestr. 70  
City:                              51149 Köln  
Telephone:                      +49 2203 8985-0  
E-mail:                              info@reimbold-und-strick.de  
Web:                              www.reimbold-und-strick.de

**1.4 Emergency telephone number:** + 49(0) 70024112112 (RSD) / inside USA: +11 49(0) 70024112112 (RSD) (Available 24 hours)

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the substance or mixture.

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

STOT RE 2 : May cause damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements.

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

Pictograms:



Signal Word:

**Warning**

H statements:

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

P statements:

P260                      Do not breathe dust/fume/gas/mist/vapours/spray.  
P314                      Get medical advice/attention if you feel unwell.  
P501                      Dispose of contents/container according with current regulation.

Contains:

Quartz (SiO<sub>2</sub>) (respirable fraction)

#### 2.3 Other hazards.

The product may have the following additional risks:

No other hazardous known as mentioned.

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### 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	specific concentration limit
CAS No: 1317-65-3 EC No: 215-279-6	[1] Calcium Carbonate	>=10% <25%	-	-
CAS No: 1332-58-7 EC No: 310-194-1 Registration No: Exempt	[1] Kaolin	>=10% <25%	-	-
Index No: 056-003-00-2 CAS No: 513-77-9 EC No: 208-167-3 Registration No: 01-2119489177-25-XXXX	[1] barium carbonate	>=5% <10%	Acute Tox. 4 *, H302	-
CAS No: 14808-60-7 EC No: 238-878-4 Registration No: Exempt	[1] Quartz (SiO2) (respirable fraction)	>=2.5% <5%	STOT RE 1, H372	STOT RE 2, H373: 1% ≤ C < 10% STOT RE 1, H372: C ≥ 10%

(\*) 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.

[1] Substance with a Community workplace exposure limit (see section 8.1).

### 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. Don't 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.

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

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

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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 CO<sub>2</sub>. 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 can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. 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.

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

#### 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-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

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

### 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/m <sup>3</sup>
Calcium Carbonate	1317-65-3	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours		10
			Short term		
		United Kingdom [2]	Eight hours		10 (total inhalable) 4 (respirable)
			Short term		
		United States [3] (Cal/OSHA)	Eight hours		10 (Total dust) 5 (Respirable fraction)
			Short term		
		United States [4] (NIOSH)	Eight hours		10 (Total dust) 5 (Respirable fraction)
			Short term		
		United States [5] (OSHA)	Eight hours		15 (Total dust) 5 (Respirable fraction)
			Short term		
Kaolin	1332-58-7	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	Eight hours		2
			Short term		
		United Kingdom [2]	Eight hours		2
			Short term		
		United States [3] (Cal/OSHA)	Eight hours		2 (Respirable fraction) (no asbestos, < 1% crystalline silica)
			Short term		
		United States [4] (NIOSH)	Eight hours		10 (Total dust) 5 (Respirable fraction)
			Short term		
		United States [5] (OSHA)	Eight hours		15 (Total dust) 5 (Respirable fraction)
			Short term		
barium carbonate	513-77-9	European Union [6]	Eight hours		0,5
			Short term		
		United States [3] (Cal/OSHA)	Eight hours		0.5 soluble compounds (as Ba)

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		Short term		
	United States [4] (NIOSH)	<b>Eight hours</b>		0.5 soluble compounds (as Ba)
		<b>Short term</b>		
	United States [5] (OSHA)	<b>Eight hours</b>		0.5 soluble compounds (as Ba)
		<b>Short term</b>		
Quartz (SiO <sub>2</sub> ) (respirable fraction)	14808-60-7	Koninkrijk België/Royaume de Belgique/Königreich Belgien [1]	<b>Eight hours</b>	0,1
		United States [3] (Cal/OSHA)	<b>Eight hours</b>	0.05
			<b>Short term</b>	
		United States [4] (NIOSH)	<b>Eight hours</b>	Potential occupational carcinogens 0.05
			<b>Short term</b>	
		United States [5] (OSHA)	<b>Eight hours</b>	10 mg/m <sup>3</sup> /(%SiO <sub>2</sub> +2), 250/(%SiO <sub>2</sub> +5) (mppcf: Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. Conversion factors - mppcf X 35.3 = million particles per cubic meter = particles per c.c.)
<b>Short term</b>				

[1] According "Valeurs Limites d'Exposition Professionnelle" (VLEP) or "Grenswaarden voor Beroepsmatige Blootstelling" (GWBB) list adopted by Belgian Ministry of Employment and Labour.

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

[3] California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

[4] National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health, Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.

[5] 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).

[6] According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
barium carbonate CAS No: 513-77-9 EC No: 208-167-3	DNEL (Workers)	Inhalation, Long-term, Local effects	0,72 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Local effects	0,12 (mg/m <sup>3</sup> )
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	6,9 (mg/m <sup>3</sup> )
	DNEL (General population)	Inhalation, Long-term, Systemic effects	2,1 (mg/m <sup>3</sup> )

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	DNEL (Workers)	Dermal, Long-term, Systemic effects	41 (mg/kg bw/d)
	DNEL (General population)	Oral, Long-term, Systemic effects	3,5 (mg/kg bw/d)

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.

Concentration levels PNEC:

Name	Details	Value
barium carbonate CAS No: 513-77-9 EC No: 208-167-3	agua (agua dulce)	0,115 (mg/l)
	STP	62,2 (mg/l)
	sedimento (agua dulce)	600,4 (mg/l)
	suelo	207,7 (mg/l)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

### 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.

<b>Concentration:</b>	100 %		
<b>Uses:</b>	Ceramic use.		
<b>Breathing protection:</b>			
PPE:	Filter mask for protection against 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 149		
Maintenance:	The mask must be changed periodically and in any case after every work shift. Never modificate the equipment.		
Observations:	Use when exceeding TLV for one or more substances contained in the mixture.		
<b>Hand protection:</b>			
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
<b>Eye protection:</b>			
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.		
<b>Skin protection:</b>			
If the product is handled correctly, no individual protection equipment is necessary.			

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

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

Appearance: Powder

Colour: N.A./N.A.

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Odour: odourless  
Odour threshold: not available  
pH: not applicable due to the nature of the product: solid.  
Melting point: not available °C  
Boiling Point: N.A./N.A.  
Flash point: N.A./N.A.  
Evaporation rate: not available  
Inflammability (solid, gas): It does not contain chemical groups associated with flammable properties  
Lower Explosive Limit: It does not contain chemical groups associated with flammable properties  
Upper Explosive Limit: It does not contain chemical groups associated with flammable properties  
Vapour pressure: not available  
Vapour density: not available  
Relative density: 2,735  
Solubility: not available  
Liposolubility: not available  
Hydrosolubility: not available  
Partition coefficient (n-octanol/water): not available  
Auto-ignition temperature: It does not contain chemical groups associated with flammable properties °C  
Decomposition temperature: not available °C  
Viscosity: not applicable due to the nature of the product: solid  
Explosive properties: It does not contain chemical groups associated with explosive properties  
Oxidizing properties: It does not contain chemical groups associated with oxidizing properties

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

### 9.2 Other information.

Dropping point: not available  
Blink: not available  
Kinematic viscosity: not applicable due to the nature of the product: solid  
N.A./N.A.= Not Available/Not Applicable due to the nature 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.

### 11.1 Information on toxicological effects.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
barium carbonate	Oral	LD50	Rat	1690 mg/kg bw
	Dermal	LD50	Rat	>2000 mg/kg

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CAS No: 513-77-9	EC No: 208-167-3	Inhalation	
------------------	------------------	------------	--

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures:

ATE (Oral) = 23.472 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;

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;

Product classified:

Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.

j) aspiration hazard;

Not conclusive data for classification.

## SECTION 12: ECOLOGICAL INFORMATION.

### 12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
barium carbonate  CAS No: 513-77-9      EC No: 208-167-3	Fish	LC50	Danio rerio	>140.1 mg/l (96h) [1]
	Aquatic invertebrates	EC50	Daphnia magna	20.8 mg/l (48h) [1]
			[1] Biesinger y Christensen, 1972	
Aquatic plants	ErC50	Pseudokirchneriella subcapitata	>49.3 mg/l (72h) [1]	
		[1] Egeler y Kiefer, 2010b		

### 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
barium carbonate CAS No: 513-77-9 EC No: 208-167-3	-	37,6	-	Very low

### 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 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.

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

### 14.1 UN number.

Transportation is not dangerous.

### 14.2 UN proper shipping name.

Description:

ADR: 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.

### 14.6 Special precautions for user.

Transportation is not dangerous.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

Transportation is not dangerous.

## SECTION 15: REGULATORY INFORMATION.

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

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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): 0 %

VOC content: 0 g/l

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

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:

H302 Harmful if swallowed.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure.

Classification codes:

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

STOT RE 1 : Specific target organ toxicity following a repeated exposure, Category 1

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

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

#### 1272/2008 [CLP]:

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

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

### Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
1317-65-3	Calcium Carbonate	Registered
1332-58-7	Kaolin	Registered
513-77-9	barium carbonate	Registered
14808-60-7	Quartz (SiO <sub>2</sub> ) (respirable fraction)	Registered

Abbreviations and acronyms used:

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.

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LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water.

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.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

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) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on 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.

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.