

# SAFETY DATA SHEET

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

## 38-TURPENTINE ESSENTIAL OIL

Version 1 Date of compilation: 26/03/2023

LABDASSENCE

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Print date: 12/06/2023

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

#### 1.1 Product identifier.

Product Name: TURPENTINE ESSENTIAL OIL  
Product Code: 38  
Chemical Name: Turpentine oil  
Botanical Name: *Pinus pinaster* Ait.  
INCI Name: Turpentine, oil  
CAS No: 8006-64-2  
EC No: 232-350-7

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

Ingredient for use in cosmetics, perfumery, pharmacy and aromatherapy.

#### Uses advised against:

Uses other than those recommended.

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

Company: **SL DE PLANTAS AROMÁTICAS INDUSTRIALIZADAS**  
Address: C/ Antonio Gómez Millán, nº 29, Parque Tecnológico Cítec  
City: 41120, Gelves  
Province: Sevilla  
Telephone: +34 955439492  
E-mail: labdassence@labdassence.com

**1.4 Emergency telephone number:** +34 955439492 (Only available during office hours; Monday-Friday; 09:00-18:30)  
+34 915620420 (National Institute of Toxicology. Available 24 hours)

### SECTION 2: HAZARDS IDENTIFICATION.

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

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

Acute Tox. 4 : Harmful in contact with skin.  
Acute Tox. 4 : Harmful if inhaled.  
Acute Tox. 4 : Harmful if swallowed.  
Asp. Tox. 1 : May be fatal if swallowed and enters airways.  
Eye Irrit. 2 : Causes serious eye irritation.  
Flam. Liq. 3 : Flammable liquid and vapour.  
Skin Irrit. 2 : Causes skin irritation.  
Skin Sens. 1 : May cause an allergic skin reaction.  
Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements.

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

Pictograms:



Signal Word:

**Danger**

H statements:

H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H411 Toxic to aquatic life with long lasting effects.

### P statements:

P260 Do not breathe dust/fume/gas/mist/vapours/ spray.  
P280 Wear protective gloves and eye protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or a doctor.  
P331 Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container to compliance with current local and national regulations.

### 2.3 Other hazards.

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.

**UVCB (Substance of Unknown or Variable composition, Complex reaction products or Biological materials).**

Chemical Name: Turpentine oil  
CAS No: 8006-64-2  
EC No: 232-350-7

### Composition:

Identifiers	Name	Concentrate
N. CAS: 80-56-8 N. CE: 201-291-9	Alfa-pineno	30% - 70%
N. CAS: 127-91-3 N. CE: 204-872-5	Beta-pineno	10% - 40%
N. CAS: 87-44-5 N. CE: 201-746-1	Cariofileno	< 10%
N. CAS: 475-20-7 N. CE: 207-491-2	[1S-(1 $\alpha$ ,3 $\alpha$ ,4 $\alpha$ ,8 $\alpha$ )]-decahydro-4,8,8-trimethyl-9-methylene-1,4-methanoazulene	< 10%
N. CAS: 99-86-5 N. CE: 202-795-1	p-mentha-1,3-diene	< 10%
N. CAS: 6753-98-6 N. CE: 229-816-7	Humulene	< 10%
N. CAS: 79-92-5 N. CE: 201-234-8	Camphene	< 10%
N. CAS: 123-35-3 N. CE: 204-622-5	7-methyl-3-methyleneocta-1,6-diene	< 10%
N. CAS: 3856-25-5 N. CE: 223-364-4	8-isopropyl-1,3-dimethyltricyclo[4.4.0.0 <sup>2,7</sup> ]dec-3-ene	< 10%
N. CAS: 5655-61-8 N. CE: 227-101-4	L-born-2-yl acetate	< 10%

### 3.2 Mixtures.

Not Applicable.

## 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.

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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 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.**

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. 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

### **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.

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### 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).

#### 7.3 Specific end use(s).

Not available.

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

#### 8.1 Control parameters.

Name	VLA ED		VLA EC		VLB
Turpentine oil	ppm	mg/m3	ppm	mg/m3	-
	20	113	-	-	

DNELs								
	Workers				Consumers			
Exhibition route	Local acute effects	Systemic acute effects	Local chronic effects	Systemic chronic effects	Local acute effects	Systemic acute effects	Local chronic effects	Systemic chronic effects
Oral	-	-	-	-	-	-	-	0.417 mg/kg bw/día
Inhalation	-	-	-	3.8 mg/m <sup>3</sup>	-	-	-	0.674 mg/m <sup>3</sup>
Dermal	161 µg/cm <sup>2</sup>	-	-	1.17 mg/kg bw/día	81 µg/cm <sup>2</sup>	-	-	0.417 mg/kg bw/día
PNECs								
Objetive of environmental protection					Valor PNEC			
Freshwater					8.8 µg/L			
Water (intermittent releases)					0.88 µg/L			
Seawater					-			
STP					6.6 mg/L			
Sediments (freswater)					2.27 mg/kg sedimento			
Sediments (seawater)					0.227 mg/kg sedimento			
Ground					0.45 mg/kg suelo			

#### 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.

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<b>Concentration:</b>	<b>100 %</b>		
<b>Uses:</b>	<b>Ingredient used in cosmetic or pharmaceutical preparations</b>		
<b>Breathing protection:</b>			
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.		
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:	A2		
<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 with built-in frame.		
Characteristics:	«CE» marking, category II. Eye protector with built-in frame for protection against dust, smoke, fog and vapour.		
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>			
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: Transparent liquid  
Colour: Colourless  
Odour: Characteristic, citric  
Odour threshold: N.A./N.A.  
pH: N.A./N.A.  
Melting point: - 55 °C  
Boiling Point: 150 °C  
Flash point: 34 °C

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Evaporation rate: N.A./N.A.  
Inflammability (solid, gas): N.A./N.A.  
Lower Explosive Limit: 0,8 % (v)  
Upper Explosive Limit: 6 % (v)  
Vapour pressure: 5hPa  
Vapour density: N.A./N.A.  
Relative density: 0,86 g/cm<sup>3</sup> (20°C)  
Solubility: Water: 25.5 mg/L a 20°C (insoluble)  
Other: Soluble in alcohol and ether  
Liposolubility: N.A./N.A.  
Hydrosolubility: N.A./N.A.  
Partition coefficient (n-octanol/water): 4.49 (alpha pinene)  
Auto-ignition temperature: 255 °C  
Decomposition temperature: N.A./N.A.  
Viscosity: N.A./N.A.  
Explosive properties: The components of turpentine oil do not have chemical groups associated with explosive properties.  
Oxidizing properties: The components of turpentine oil do not have 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: N.A./N.A.  
Blink: N.A./N.A.  
Kinematic viscosity: 1.3 mPa · s (dinámica) (25°C)  
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.

Flammable liquid and vapours.

### 10.4 Conditions to avoid.

Avoid the following conditions:

- High temperature.
- Static dischargers.
- Contact with incompatible materials.
- Avoid temperature close to the flash point, do not heat closed containers. Avoid direct sunlight and heating may result in risk of inflammation.

### 10.5 Incompatible materials.

Avoid the following materials:

- Explosive substances
- Toxic substances
- Oxidizing materials

### 10.6 Hazardous decomposition products.

In the event of a fire, hazardous decomposition and dioxide, fumes and nitrogen oxides, can be generated.

## SECTION 11: TOXICOLOGICAL INFORMATION.

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

### 11.2 Information on other hazards.

Not available.

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					The product is classified as: Acute Tox. 4 (oral) H302 because there is a harmonized classification.
	Dermal	-	Rabbit (from New Zealand White)	Rubber turpentine oil	LD50 > 2.000 mg/kg Non-assignable result for classification. The product is classified as: Acute Tox. 4 (skin) H312 because there is a harmonized classification.
Skin corrosion or irritation		-	In vitro: epidermis humana	Alpha-pinene (extrapolation)	Skin irritant. Product classified as: Skin Irrit. 2 H315
Severe eye injury or irritation		OECD 405	Rabbit (from New Zealand White)	Camphene (extrapolación)	Eye irritant. Product classified ad: Eye Irrit. 2 H319
Respiratory or skin sensitization		OECD 429	Female mouse (CBA/J)	Beta pinene (extrapolation)	Skin sensitizer. Product classified as: Skin Sens. H317
Mutagenicity in germ cells		OECD 476	Mouse	Crude turpentine sulphate (extrapolation)	Negative. Product not classified for this Hazard class.
Carcinogenicidad	IARC: No component of this producto is identified with levels greater than or equal to 0,1% as a probable human carcinogen, possible or confirmed by the International Agency for Research on Carcinogens. Product not classified for this Hazard class.				
Reproductive toxicity	OECD 414		Rata (Sprague-Dawley)	Camphene (extrapolation)	NOAEL: 250 mg/kg/d Product not classified for this Hazard class.
Specific Target Organ Toxicity (STOT) – single exposure	No data available.				
Specifid Organ Toxicity (STOT) – repeated exposure	OECD 413 similar		Mouse (B6C3F1) male/female	Alpha-pinene (extrapolation)	NOAEL: 50 ppm NOAEC: 283.24 mg/m3 Target organs: urogenital: urinary bladder Product nor classified for this Hazard class.
Aspiration hazard	Trial not available. The product is classified as: Asp Tox. 1 H304 because there is a harmonised classification.				

### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

Acute toxicity (short-term)	Method	Species	Material tested	Results
Fishes	OECD 203	Danio Rerio	Crude turpentine sulphate (Extrapolation)	LL50 (96h): 29.0 mg/L NOELR (96h): 5.0 mg/L
Crustaceans	OECD 202	Daphnia magna	Crude turpentine sulphate (Extrapolation)	EL50 (48h): 8.8 mg/L NOELR (48h): 2.5 mg/L
Algae/Other aquatic plants	OECD 201	Desmodesmus subspicatus	Crude turpentine sulphate (Extrapolation)	EL50 (72h): 17.1 mg/L NOELR (72h): 10 mg/L
Microorganisms	OECD 209	Lodo activado	Rubber turpentine oil	EC50 (3h): 736 mg/L EC10 (3h): 10 mg/L

#### Chronic toxicity (long term):

There is no acute toxicity above the solubility limit and the substance is rapidly biodegradable, the substance is not classified as Aquatic Acute. It seems unnecessary to perform the long-term test.

Based on the available information, the product is classified as Aquatic Chronic 2.

#### 12.2 Persistence and degradability.

Turpentine oil is readily biodegradable according to OECD 301 guidelines.

#### 12.3 Bioaccumulative potential.

Partition coefficient n-octanol/water (log Kow): Log Kow: 4,49 (alpha-pinene)

Bioconcentration factor (BCF): 978.6 L/kg ww (alpha pinene)

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### 12.4 Mobility in soil.

Adsorption/desorption: Koc at 20°C: 2547 L/kg (Alpha-pinene)

### 12.5 Results of PBT and vPvB assessment.

Based on the available information, the substance is not expected to meet the PBT/vPvB criteria.

### 12.6 Endocrine disrupting properties.

The substance is not included in the list established pursuant to Article 59(1) for its endocrine disrupting properties, or substances that have been identified as having endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 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.

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: UN 1299, TURPENTINE, 3, GE III, (D/E)

IMDG: UN 1299, TURPENTINE, 3, GE III, (D/E), MARINE CONTAMINANT

ICAO/IATA: UN 1299, TURPENTINE, 3, GE III, (D/E)

### 14.3 Transport hazard class(es).

Class(es): 3

### 14.4 Packing group.

Packing group: III

### 14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

### 14.6 Special precautions for user.

Labels: 3



Hazard number: 30

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ADR LQ: 5 L  
IMDG LQ: 5 L  
ICAO LQ: 1 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR.  
Transport by ship, FEm – Emergency sheets (F – Fire, S – Spills): F-E,S-E  
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.

REACH Authorisations for Use: The substance is not on the SVHC candidate list, nor in Annex XIV of REACH.

REACH Use Restrictions: No restrictions according to Annex XVII of REACH.

### 15.2 Chemical safety assessment.

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

## SECTION 16: OTHER INFORMATION.

Classification codes:

Acute Tox. 4 : Acute oral toxicity, Category 4  
Asp. Tox. 1 : Aspiration toxicity, Category 1  
Eye Dam. 1 : Serious eye injury, Category 1  
Flam. Liq. 3 : Flammable liquid, Category 3  
Skin Corr. 1C : Skin corrosive, Category 1C  
Skin Sens. 1 : Skin sensitiser, Category 1

Changes regarding to the previous version:

- Update in accordance with 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 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:

CEN: European Committee for Standardization.  
PPE: Personal protection equipment.

Key literature references and sources for data:

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

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

Regulation (EU) No 2020/878.

Regulation (EU) No 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) 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

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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.