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GRAPHENSTONE

Safety Data Sheet
According to 1907/2006/CE (REACH), 2020/878/EU

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SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF PARTNERSHIP OF THE COMPANY

- 1.1 Product Identifier:** Siena
UFI code: T1M5-U0CQ-Q001-N1S4
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant use: Painting for architectural use.
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**
Industria Española para el Desarrollo e Investigación 2100, S.A. (IEDISA)
C/ Carpinteros, 25 41520 El Viso del Alcor - Sevilla - España
Tel.: +34 955 292 068 / +34 693 026 242
Email: info@graphenstone.com Web: <http://www.graphenstone.com>
- 1.4 Emergency telephone number:** +34 693 026 242 **Timetable:** 7:00-15:00

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture: CLP Regulation nº 1272/ 2008:

Classification of this product has been carried out in accordance with CLP Regulation nº 1272/ 2008.

Eye Dam. 1: Serious eye damage, Category 1, H318

Skin Irrit. 2: Skin Irritant, Category 2, H315

Label elements:

CLP Regulation nº 1272/ 2008 (CLP):

DANGER



Hazard statements:

Eye Dam. 1: H318 Serious eye damage

Skin Irrit. 2: H315 Causes skin irritation

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P264: Wash thoroughly after handling

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection

P302+ P352: IN CASE OF CONTACT WITH SKIN: Wash with plenty of water

P305+ P351+ P338: IF IN CASE OF EYE CONTACT: Rinse cautiously with water for several minutes.

Remove contact lenses when present and easy to do. Continue rinsing.

P332+P313: In case of skin irritation: Get medical advice/attention.



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P501: Dispose of contents and / or their container according to the separated collection system used in your municipality

Additional information:

No relevant.

2.1 Substances that contribute to the classification:

Calcium hydroxide.

2.2 Other hazards:

The mixture does not contain substances classified as PBT (Persistent, Bioaccumulative and Toxic).

The mixture does not contain substances classified as vPvB (very Persistent and very Bioaccumulative).

The mixture does not contain substances with endocrine disrupting properties.

Under normal conditions of use and in its original form, the product has no other negative effects on health and the environment.

SECCIÓN 3: COMPOSICIÓN/INFORMACIÓN SOBRE LOS COMPONENTES

3.1 Substance.

Non-applicable.

3.2 Mixture.

Substances that represent a health or environmental hazard according to Regulation (EC) No. 1272/2008, are assigned a Community workplace exposure limit, are classified as PBT/vPvB or are included in the Candidate List:

No relevant.

Identifiers	Name	Concentration	(*)Classification - Regulation 1272/2008	
			Classification	Specific Concentration Limits and Acute Toxicity Estimation
CAS: 1305-62-0 CE: 215-137-3 Índice: No aplicable REACH: 01-2119475151-45-XXXX	Calcium dihydroxide	10 - 20 %	Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3 H335	-



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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid:

Symptoms as a result of intoxication can occur after exposure, so in case of doubt, direct exposure to the chemical or persistence of discomfort request medical attention, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation; however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burn or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close eyes. In case the accident victim wears contact lenses, they should be removed as long as they are not attached to the eyes, otherwise there could be additional damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestión/aspiration:

Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. In the event that vomiting occurs, keep head tilted forward to avoid aspiration. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Main symptoms and effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable.



SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

Non-flammable product under normal conditions of storage, handling and use. In case of inflammation as a result of handling, storage or improper use any type of extinguishing agent can be used (ABC Powder, water...), according to the regulation of fire protection installations (R.D. 1942/1993 and subsequent modifications). It is NOT RECOMMENDED to use water jet as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a consequence of combustion or thermal decomposition, reaction by products are generated that can be highly toxic and, consequently, can present a high risk to health.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit...) in accordance with R.D.486/ 1997 and subsequent modifications.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leakage as long as it does not pose an additional risk to people who perform this function. In the event of potential exposure with the spilled product, the use of personal protection elements is mandatory. (See section 8). Evacuate the area and keep out those who do not have protection.

6.2 Precautions relating to environment:

Avoid spillage into the aquatic environment because it contains substances dangerous to it. Contain the product absorbed / collected in sealable containers. Notify the competent authority in case of large spillages in the aquatic environment.

6.3 Methods and material for containment and cleaning:

It is recommended:



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Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections: See sections 8 y 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions

Comply with current legislation on the prevention of occupational risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions.

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks.

For exposure control consult section 8. Do not eat, drink or smoke in the work areas; Wash your hands after each use, and remove contaminated clothing and protective equipment before entering the eating areas.

D.- Technical recommendations to prevent environmental risks.

It is recommended to have absorbent material available at close proximity to the product (See section 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage ITC

(R.D.379/2001): Non-applicable

Classification: Non-applicable

Minimum Temp: 5 °C

Maximum Temp: 30 °C

Maximum Time: 24 months

B.- General conditions for storage.

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see section 10.5

7.3 Specific and users:

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:

Substances whose occupational exposure limit values have to be controlled in the work environment (I NSHT 2017):

Identification		Environmental limit values	
Calcium dihydroxide CAS: 1305-62-0 CE: 215-137-3		VLA-ED	5 mg/m ³
		VLA-EC	
		Year	2016

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systematic	Local	Systematic	Local
Calcium dihydroxide CAS: 1305-62-0 CE: 215-137-3	Oral	No relevant	No relevant	No relevant	No relevant
	Cutaneous	No relevant	No relevant	No relevant	No relevant
	Inhalation	No relevant	4 mg/m ³	No relevant	1 mg/m ³

DNEL (Population):

Identification		Short exposure		Long exposure	
		Systematic	Local	Systematic	Local
Calcium dihydroxide CAS: 1305-62-0 CE: 215-137-3	Oral	No relevant	No relevant	No relevant	No relevant
	Cutaneous	No relevant	No relevant	No relevant	No relevant
	Inhalation	No relevant	4 mg/m ³	No relevant	1 mg/m ³

PNEC:

Identification					
Calcium dihydroxide CAS: 1305-62-0 CE: 215-137-3	STO	3 mg/l	Fresh water	0.49 mg/l	
	Soil	1080 mg/kg	Salt water	0.32 mg/l	
	Intermittent	0.49 mg/l	Sediment (fresh water)	No relevant	
	Oral	No relevant	Sediment (salt water)	No relevant	

8.2 Exposure controls:

A.- General security and hygiene measures in the work place:

As a preventive measure, the use of basic personal protective equipment is recommended, with the corresponding "CE marking" according to R.D.1407 / 1992 and subsequent modifications. For more information on personal protection equipment (storage, use, cleaning, maintenance, protection class...) consult the information leaflet provided by the EPI manufacturer. The indications contained in this point refer the pure product. The protection measures for the diluted product may vary depending on its degree of dilution, use, method of application, etc. To determine the obligation to install emergency showers and/or eyewash in the warehouses will



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be taken into account the regulations regarding the storage of chemical products applicable in each case. For more information see section 7.1 and 7.2.

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.

B.- Respiratory protection:

Pictogram	EPI	Labelling	CEN standard	Remarks
 Mandatory respiratory protection	Self-filtering mask for gases and vapors		EN 405:2001+A1:2009	Replace when odor or taste of contaminant is detected inside the face mask or adapter. When the contaminant does not have good warning properties, the use of insulating equipment is recommended.

C.- Specific protection of hands:

Pictogram	EPI	Labelling	CEN standard	Remarks
 Mandatory hand protection	Protective gloves against minor risks		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420: 2003+A1:2009	Replace any signs of deterioration. For prolonged periods of exposure to the product for professional/industrial users, the use of CE III gloves is recommended, in accordance with standards EN 420 and EN 374.

Since the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and therefore to be checked prior to the application.

D.- Ocular and facial protection:

Pictogram	EPI	Labelling	CEN standard	Remarks
 Mandatory face protection	Panoramic glasses against splashes and/or projections		EN 166:2001 EN 167:2001 EN 168:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. It is recommended in case of risk of splashes.



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E.- Corporal protection:

Pictogram	EPI	Labelling	CEN standard	Remarks
 Mandatory body protection	Work wear		EN 13034:2005+ A1:2009 EN 168:2001 EN ISO 13982-1:2004/ A1:2010 EN ISO 6529:2001 EN ISO 6530:2005 EN 464:1994	Clean daily and disinfect periodically according to the manufacturer's instructions. It is recommended in case of risk of splashes.
 Mandatory foot protection	Anti-slip work footwear		EN ISO 20345:2011 EN 13832-1:2006	Replace any signs of deterioration. For prolonged periods of exposure to the product for professional / industrial users, CE III is recommended, according to EN ISO 20345 and EN 13832-1

F. Additional emergency measures:

Emergency measure	Standards	Marked	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1: 2002	 Eyewash station	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

Under Community legislation for the protection of the environment, it is recommended to avoid spilling both the product and its packaging into the environment. For additional information see section 7.1 D.

Volatile organic compounds:

In application to R.D.117/ 2003 and subsequent amendments (Directive 2010/75/EU), this product has the following characteristics: Non-applicable.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

To complete the information, see the technical sheet/ product specification sheet

Physical appearance:

Appearance:	Liquid
Odour:	Undetermined

Volatility:

Boiling point at atmospheric pressure:	100 °C
Vapour pressure at 20 °C:	2350 Pa
Vapour pressure at 50 °C:	12381 Pa (12 kPa)
Evaporation rate at 20 °C:	Non-applicable*

Product description:

Density at 20 °C:	1500kg/m ³
Relative density at 20 °C:	1,50
Dynamic viscosity at 20 °C:	Non-applicable*
pH:	13
Vapour density at 20 °C:	Non-applicable*
Partition coefficient n-octanol/water at 20 °C:	Non-applicable*
Solubility in water at 20 °C:	Non-applicable*
Solubility properties:	Non-applicable*
Explosive properties:	Non-applicable*
Oxidizing properties:	Non-applicable*

Flammability:

Flashpoint:	Not flammable
Flammability (solid, gas):	Non-applicable*

** Not relevant due to the nature of the product, not providing information property of its hazards.*



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

Hazardous reactions are not expected if the Technical instructions for the storage of chemical products are met. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressures are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Heating	Sunlight	Humidity
Non-applicable	Non-applicable	Avoid direct incidence	Avoid direct incidence	Non-applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Avoid strong acids	Non-applicable	Avoid direct incidence	Caution	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See section 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available.

Dangerous effects for health:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A.- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3



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- Corrosivity/Irritability: The ingestion of a considerable dose can cause throat irritation, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.
- Corrosivity/Irritability Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: No relevant.
- Contact with the eyes: No relevant.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, not presenting substances classified as dangerous with sensitizing effects above the limits set out in point 3.2 of Regulation (EC) 2015/ 830. For more information see section 2, 3 and 15.
- Cutaneous: Prolonged skin contact can lead to episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.



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Additional information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Calcium dihydroxide CAS: 1305-62-0 CE: 215-137-3	DL50 oral	7340 mg/kg	Rat
	DL50 cutaneous	No relevant	
	CL50 inhalation	No relevant	

11.2 Information concerning other hazards.

Endocrine disrupting properties.

This product does not contain components with endocrine disrupting properties that have an effect on human health.

Other information.

No information on other adverse health effects is available.

SECTION 12: ECOLOGICAL INFORMATION

The Experimental information related to the eco-toxicological properties of the product itself is not available.

12.1 Toxicity:

Identification	Acute toxicity		Specie	Genus
Calcium dihydroxide CAS: 1305-62-0 CE: 215-137-3	CL50	160 mg/l (96 h)	Gambusia afinis	Fish
	CE50	No relevant		
	CE50	No relevant		

12.2 Persistence and degradability:

Non-applicable

12.3 Bio-accumulative potential:

Undetermined

12.4 Movility in soil:

Non-applicable



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12.5 Results of PBT y mPmB assessment:

Non-applicable

12.6 Endocrine disrupting properties:

This product does not contain components with endocrine disrupting properties on the environment.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (UE) nº1357/2014)
1709 04	Mixed construction and demolition waste other than those specified in codes 17 09 01, 17 09 02 and 17 09 03	No dangerous

Type of waste (Regulation (UE) nº 1357/ 2014): Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/ 98/ EC, Law 07/ 2022). As under 15 01 (2014/ 955/ EU) of the code and 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.

Legislative provisions 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: Directive 2008/ 98/ CE, 2014/ 955/ UE, Regulation (EU) nº 1357/ 2014

National legislation: Law 07/ 2022



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SECTION 14: TRANSPORT INFORMATION

14.1 ONU number or ID number:

Non-applicable

14.2 United Nations proper shipping name:

Description:

ADR/RID: Not dangerous in transport.

IMDG: Not dangerous for transport.

ICAO/IATA: Not dangerous for transport.

14.3 Transport hazard class(es):

Exempt

14.4 Packaging Group

Non-applicable

14.5 Environmental hazards:

See section 12

14.6 Special Precautions for Users:

See section 7

14.7 Carriage by sea in bulk under IMO instruments:

Unrestricted

SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorization under the Regulation (EC) 1907/ 2006 (REACH): Non-applicable

Substances included in Annex XI V of REACH (Authorization list) and of expiration: Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: non-applicable

Active substances which have been included in Article 95 of Regulation (EU) No 528/2012: Calcium dihydroxide.

REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals: Not relevant.

Limitation to commercialization and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc.):

Non-applicable



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Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

Regulation (EC) n° 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, Labelling and packaging of Substances and mixtures, and amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) n° 1907/2006

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II -Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/ 2006 (Regulation (EC) N° 2020/ 878)

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks:

Compared to the previous version, the following sections have been modified: 1, 2, 3, 9, 11, 13, 14 and 16.

Texts of the legislative phrases mentioned in section 2:

H318: Serious eye damage

H315: Causes skin irritation

Texts of the legislative phrases mentioned in section 3:

The phrases listed do not refer to the product itself, they are for information only and refer to the individual components listed in section 3.

Regulatory n° 1272/ 2008 (CLP):

Eye Dam. 1: H318 - Causes serious damage to eyes.

Skin Irrit. 2: H315 - Causes skin irritation

Classification procedure:

Eye Dam. 1: Calculation method

Skin Irrit. 2: Calculation method



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Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Main bibliographic sources:

<http://esis.jrc.ec.europa.eu>
<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- OACI: International Civil Aviation Organization
- COD: Chemical Oxygen Demand
- BOD5: 5-days biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50 - DL50: dosis letal 50

- LC50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log POW: Octanol-water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this Safety Data Sheet is based on sources, technical knowledge and current legislation at European and state level and cannot guarantee the accuracy of it. This information cannot be considered as a guarantee of the properties of the product, it is simply a description of the security requirements. The methodology and working conditions of the users of this product are beyond our knowledge and control, and it is always the user's ultimate responsibility to take the necessary measures to adapt to the legislative requirements regarding handling, storage, use and disposal of chemical products. The information in this safety data sheet only refers to this product, which should not be used for purposes other than those specified.