OIKOS

## OIKOS S.P.A. A SOCIO UNICO RAFFAELLO DECORSTUCCO

Revision nr.11 Dated 12/12/2022 Printed on 12/12/2022 Page n. 1 / 12 Replaced revision:10 (Dated 25/05/2020)

	Safety Data Sheet
According to Anne»	I to REACH - Regulation 2020/878 and to Annex II to UK REACH
SECTION 1. Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	RAFFAELLO DECORSTUCCO
UFI :	K610-106T-900T-X7QE
1.2. Relevant identified uses of the substance or n	nixture and uses advised against
Intended use	Decorative water-based paint. Professional and home use.
Uses Advised Against	
Uses other than those indicated Uses advised against Uses other than those ind	licated
1.3. Details of the supplier of the safety data sheet	
Name	OIKOS S.P.A. A SOCIO UNICO
Full address	Via Cherubini 2 47043 Gatteo Mare (FC)
District and Country	47043 Gatteo Mare (FC) Italia
	Tel. 0547 681412
e-mail address of the competent person	Fax 0547 681430
responsible for the Safety Data Sheet	certificazioniprodotti@oikos-group.it
1.4. Emergency telephone number	
For urgent inquiries refer to	NHS National Health Service 111
OIKOS S.P.A. a socio unico Company emergeno	•
Technical support - Monday to Friday from 8.00	-13.00; 13:30 to 16:30
SECTION 2. Hazards identification	
2.1. Classification of the substance or mixture	
	the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent requires a safety datasheet that complies with the provisions of (EU) Regulation
Any additional information concerning the risks for	health and/or the environment are given in sections 11 and 12 of this sheet.
Hazard classification and indication:	
Serious eye damage, category 1	H318 Causes serious eye damage.
Skin irritation, category 2	H315 Causes skin irritation.
2.2. Label elements	
Hazard labelling pursuant to EC Regulation 1272/2	2008 (CLP) and subsequent amendments and supplements.
Hazard pictograms:	



Signal words:

Danger

Hazard statements:



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#### SECTION 2. Hazards identification .../>>

H318 H315 EUH208	Causes Contain		ction ma ethyl-2H	ass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and H-isothiazol-3-one [EC no. 220-239-6] (3:1) n.
Precautionary s P101 P102 P280 P302+P352 P305+P351+ P310 P501	If medic Keep ou Wear pi IF ON S •P338 IF IN EN Continu Immedia	ut of reach of child rotective gloves /   SKIN: wash with pl YES: Rinse cautio re rinsing. ately call a POISC	dren. protectiv lenty of ously with	e product container or label at hand. ve clothing / eye protection / face protection. water / th water for several minutes. Remove contact lenses, if present and easy to do. ITER / doctor / n accordance with local regulation.
Contains:	Calcium	n dihydroxide		
		ready-to-use cond	dition :	8,00
	available data, the			200,00 any PBT or vPvB in percentage ≥ than 0,1%. srupting properties in concentration ≥ 0.1%.
2.3. Other hazards On the basis of	available data, the	tances with endoc	crine dis	any PBT or vPvB in percentage ≥ than 0,1%.
2.3. Other hazards On the basis of The product doe	available data, the	tances with endoc	crine dis	any PBT or vPvB in percentage ≥ than 0,1%.
2.3. Other hazards On the basis of The product doe SECTION 3. Comp	available data, the	tances with endoc	crine dis	any PBT or vPvB in percentage ≥ than 0,1%.
2.3. Other hazards On the basis of The product doe SECTION 3. Comp 3.2. Mixtures	available data, the	tances with endoc	crine dis <b>s</b>	any PBT or vPvB in percentage ≥ than 0,1%.
<ul> <li>2.3. Other hazards</li> <li>On the basis of</li> <li>The product doe</li> <li>SECTION 3. Comp</li> <li>3.2. Mixtures</li> <li>Contains:</li> </ul>	available data, the es not contain subs position/information x = Conc	tances with endoc	crine dis <b>s</b>	any PBT or vPvB in percentage $\geq$ than 0,1%. srupting properties in concentration $\geq$ 0.1%.
<ul> <li>2.3. Other hazards</li> <li>On the basis of</li> <li>The product doe</li> <li>SECTION 3. Comp</li> <li>3.2. Mixtures</li> <li>Contains:</li> <li>Identification</li> <li>Calcium dihyde</li> <li>INDEX EC CAS REACH Reg.</li> </ul>	x = Conc roxide 215-137-3 1305-62-0 01-2119475151-45	tances with endocron on ingredients $x \sim 0$ C $10 \le x \le 15$	crine dis s	any PBT or vPvB in percentage $\geq$ than 0,1%. srupting properties in concentration $\geq$ 0.1%.
2.3. Other hazards On the basis of The product doe SECTION 3. Comp 3.2. Mixtures Contains: Identification Calcium dihyde INDEX EC CAS REACH Reg. Reaction mass (3:1)	x = Conc roxide 215-137-3 1305-62-0 01-2119475151-45	tances with endoc on on ingredients $x \sim 0$ $10 \le x < 15$ $y \sim 10$ thyl-2H-isothiazo	crine dis s Classific	any PBT or vPvB in percentage ≥ than 0,1%. srupting properties in concentration ≥ 0.1%. cation (EC) 1272/2008 (CLP) Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335 P[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100,
2.3. Other hazards On the basis of The product doe SECTION 3. Comp 3.2. Mixtures Contains: Identification Calcium dihydr INDEX EC CAS REACH Reg. Reaction mass (3:1) INDEX	x = Conc roxide 215-137-3 1305-62-0 01-2119475151-45 of 5-chloro-2-met	tances with endoc on on ingredients $x \sim 0$ $10 \le x < 15$ $y \sim 10$ thyl-2H-isothiazo	crine dis s Classific	any PBT or vPvB in percentage ≥ than 0,1%. srupting properties in concentration ≥ 0.1%. cation (EC) 1272/2008 (CLP) Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335 e[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100 Skin Corr. 1C H314: ≥ 0,6%, Skin Irrit. 2 H315: ≥ 0,06%, Skin Sens. 1 H317: ≥
2.3. Other hazards On the basis of The product doe SECTION 3. Comp 3.2. Mixtures Contains: Identification Calcium dihydr INDEX EC CAS REACH Reg. Reaction mass (3:1) INDEX	x = Conc roxide 215-137-3 1305-62-0 01-2119475151-45 of 5-chloro-2-met 613-167-00-5	tances with endoc on on ingredients $x \sim 0$ $10 \le x < 15$ $y \sim 10$ thyl-2H-isothiazo	crine dis s Classific	any PBT or vPvB in percentage ≥ than 0,1%. srupting properties in concentration ≥ 0.1%. cation (EC) 1272/2008 (CLP) Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335 P[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] Acute Tox. 1 H330, Acute Tox. 2 H310, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a

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#### SECTION 4. First aid measures ... / >>

#### doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

### **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

#### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

#### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### SECTION 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage**

### 7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 7.2. Conditions for safe storage, including any incompatibilities



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## SECTION 7. Handling and storage ... / >>

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

## 7.3. Specific end use(s)

Information not available

## **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

Cal	cium	dihydr	oxide

Threshold Limit V	alue								
Туре	Country	TWA/8h		STEL/15	imin	Remarks / 0	Observations		
		mg/m3	ppm	mg/m3	ppm				
MAK	DEU	1		2		INHAL			
VLA	ESP	1		4					
VLEP	FRA	1		4					
VLEP	ITA	1		4		RESP			
NDS/NDSCh	POL	2		6		INHAL			
NDS/NDSCh	POL	1		4		RESP			
WEL	GBR	5				INHAL			
WEL	GBR	1		4		RESP			
OEL	EU	1		4		RESP			
TLV-ACGIH		5							
Predicted no-effect		ation - PNE	C						
Normal value in							0,49	mg/l	
Normal value in							0,32	mg/l	
Normal value fo			ase				0,49	mg/l	
Normal value of							3	mg/l	
Normal value fo		•					1080	mg/kg	
Health - Derived n	o-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	umers			Effects on wo	orkers		
Route of exposu	ure Acu	te Acı	ute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	loca	l sys	temic	local	systemic	local	systemic	local	systemic
Inhalation	4			1		4		1	
	mg/	m3		mg/m3		mg/m3		mg/m3	



#### SECTION 8. Exposure controls/personal protection .../>>

220-239-6] (3:	1)							
redicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					3,39	µg/l	
Normal value in marin	ne water					3,39	µg/l	
Normal value for fres	h water sedi	ment				27	µg/kg	
Normal value for mar	ine water se	diment				27	µg/kg	
Normal value of STP	microorgani	sms				230	µg/l	
ealth - Derived no-eff	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on w	orkers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		110		90				
		µg/kg bw/d		µg/kg bw/d				
Inhalation	40	NPI	20	NPI	40	NPI	20	NPI
	µg/m3		µg/m3		µg/m3		µg/m3	
Skin		NPI	NPI	NPI		NPI	NPI	NPI

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

#### **SECTION 9.** Physical and chemical properties

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

Properties		Value	Information
Appearance		pasty liquid	
Colour		White and the colour chart	
		shades	
Odour		Hydraulic binder	
Melting point / freezing point		not available	
Initial boiling point	>	100 °C	
Flammability		not flammable	

@EPY 11.4.1 - SDS 1004.14



## SECTION 9. Physical and chemical properties ... / >>

Lower explosive limit Upper explosive limit Flash point Auto-ignition temperature Decomposition temperature pH Kinematic viscosity Dynamic viscosity Solubility Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density Particle characteristics not applicable not applicable 60 °C not applicable not available 12-13 not available tixotropico Mixable in water not available not available 1,5 not available not available not applicable

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) :	0,16 % - 2,43	g/litre
VOC (volatile carbon)	0,08 % - 1,22	g/litre
Explosive properties	not applicable	-
Oxidising properties	not applicable	

## SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

## **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

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#### SECTION 11. Toxicological information .../>>

Calcium dihydroxic	1
ABSORPTION	

The primary effect of calcium diidide on health is local irritation caused by pH variation. Therefore, absorption is not a relevant parameter for the assessment of the effects of the substance.

Information on likely routes of exposure

#### Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

> Calcium dihydroxide LD50 (Dermal): LD50 (Oral):

Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

50,001 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

> 2500 mg/kg Rabbit (OCSE 402)> 2000 mg/kg Rat (OECD 425)

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

1008 mg/kg bw (rat)

> 64 mg/kg bw 64-561 (rat)

> 171 mg/m3 171-2360 (rat)

(3:1) LD50 (Dermal): STA (Dermal):

LD50 (Oral): LC50 (Inhalation vapours):

#### SKIN CORROSION / IRRITATION

Causes skin irritation

Calcium dihydroxide Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Calcium dihydroxide Causes severe eye injury

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Calcium dihydroxide Does not meet the classification criteria for this danger class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Calcium dihydroxide Reverse Bacterial Mutation Essay (Ames Test, OECD 471): Negative Testing chromosomal aberrations on mammal cells: negative Given that calcium is an omnipresene and essential element and that any variation of the lime-induced pH in watery means has no relevance, calcium dihydroxide is ovially devoidant of any genotoxic potential. Classification by function of genotoxicity is not justified.

@EPY 11.4.1 - SDS 1004.14

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#### SECTION 11. Toxicological information ... / >>

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Calcium dihydroxide

Calcium (administered in the form of lactate) is not carcinogenic (experimental result, rat). The effect on pH on the product of calcium diid dioxide is free of any carcinogenic potential. classification on the basis of carcinogenicity is not justified.

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### Calcium dihydroxide

Calcium (administered in the form of Ca carbonate) is not toxic for reproduction (experimental result, mouse). The effect on pH does not give rise to any reproductive risk. Human epidemiological data confirm that calcium diid dioxide is free of any potential toxicity. In both animal and clinical trials on different calcium salts, no effect has been identified on reproductive and developmental toxicity. v. also the Scientific Committee of Human Food (Anonymous, 2006). Therefore, calcium diidide is not toxic for reproduction and/or development.

Classification on the basis of reproductive toxicity according to Regulation 1272/2008 is not necessary.

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Calcium dihydroxide It can irritate the airways

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

#### Calcium dihydroxide

The toxicity of calcium through the oral exposure pathway is demonstrated by the increase in maximum tolerable intake levels (UL) for adults determined by the Scientific Committee of Human Food (SCF), where UL-2500 mg/die, equal to 38 mg/kg of weight/die, equal to 38 mg/kg of weight/die (individual weighing 70 kg) for calcium.

The toxicity of Ca(OH)2 through contact with the skin is not considered relevant by virtue of the expected insignificant absorption through the skin and the fact that local irritation is the primary effect for health (pH variation).

The toxicity of Ca(OH)2 by inhalation (local effect, mucous irritation), taking into account an average time weighed for an 8-hour shift, was determined by the Scientific Committee for Occupational Exposure Limits (SCOEL) in 1 mg/m3 of breathable dust. Therefore, the classification of Ca(OH)2 on the basis of toxicity as a result of prolonged exposure is not necessarily

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

Calcium dihydroxide Does not meet the classification criteria for this danger class

Calcium diidhydroxide is classified as irritating to the skin and airways, and carries the risk of serious eye injury. The limit of occupational exposure for the prevention of sensory irritation at the local level and the reduction of lung function parameters as effects is OEL (8 hours) - 1 mg/m3 of breathable dust.

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.



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## **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

Calcium dihydroxide LC50 (96h) on sea fish: 457 mg/l LC50 (96h) on sea invertebrates: 158 mg/l NOEC (72 hours) on freshwater algae: 48 mg/l TOXICITY ON MICROORGANISMS, ES BACTERIA At high concentration, through temperature and pH rise, calcium diidhydxide is used for disinfection of sewer sludge. NOEC (14 days) for sea invertebrates: 32 mg/l EC10/LC10 or NOEC on soil macro-organisms: 2000 mg/kg soil dw EC10/LC10 or NOEC on soil microorganisms: 12000 mg/kg soil dw NOEC (21 days) on terrestrial plants: 1080 mg/kg GENERAL EFFECT Acute effect of pH. Although this substance is useful for correcting water acidity, excess over 1 g/l can be harmful to aquatic organisms. A value of pH> 12 will decrease rapidly and as a result of dilution and carbonation. Calcium dihydroxide LC50 - for Fish 50,6 mg/l/96h freshwater fish EC50 - for Crustacea 49,1 mg/l/48h invertebrate EC50 - for Algae / Aquatic Plants 184,57 mg/l/72h alga

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)LC50 - for Fish> 190  $\mu$ g/l 190-330EC50 - for Crustacea> 7  $\mu$ g/l 7-160EC50 - for Algae / Aquatic Plants> 6,3  $\mu$ g/l 6,3-27,3Chronic NOEC for Fish46,4  $\mu$ g/l 35 daysChronic NOEC for Crustacea> 111  $\mu$ g/l 11.1-1050

#### 12.2. Persistence and degradability

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one[EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) Rapidly degradable

#### 12.3. Bioaccumulative potential

Information not available

#### 12.4. Mobility in soil

Calcium dihydroxide Calcium diidhydroxide is a moderately soluble substance and therefore has poor mobility in most soils.

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available



## **SECTION 13. Disposal considerations**

#### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

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

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

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

Information not relevant

### **SECTION 15. Regulatory information**

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

Seveso Category - Directive 2012/18/EU:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

 Product
 3 - 40

 Point
 3 - 40

 Contained substance
 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:



ΕN

#### SECTION 15. Regulatory information ... / >>

#### None

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

1

VOC (Directive 2004/42/EC) : Decorative effect coatings.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances Calcium dihydroxide

## **SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category
H330	Fatal if inhaled.
H310	Fatal in contact with skin.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level



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#### SECTION 16. Other information ... / >>

- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 09 / 11 / 12 / 15 / 16.