

## Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name **ARGILLA MATERICA**  
UFI : **J630-P02X-C006-433W**

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

Intended use **Lime-based water-based decorative paint. Professional and home use.**

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

Name **OIKOS S.P.A. A SOCIO UNICO**  
Full address **Via Cherubini 2**  
District and Country **47043 Gatteo Mare (FC) Italia**  
Tel. **0547 681412**  
Fax **0547 681430**  
e-mail address of the competent person 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 emergency number: 0547 681412**  
**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 product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

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.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: **Danger**

Hazard statements:  
**H318** Causes serious eye damage.

Precautionary statements:  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

<div>OIKOS</div>		<div>OIKOS S.P.A. A SOCIO UNICO</div> <div>ARGILLA MATERICA</div>		<div>Revision nr.2</div> <div>Dated 20/01/2025</div> <div>Printed on 20/01/2025</div> <div>Page n. 2 / 13</div> <div>Replaced revision:1 (Dated 10/12/2024)</div>		EN	
<div>SECTION 2. Hazards identification ... / &gt;&gt;</div>							
<div>P280</div> <div>P310</div>		<div>Wear eye protection / face protection.</div> <div>Immediately call a POISON CENTER / doctor / . . .</div>					
<div>Contains:</div>		<div>Calcium dihydroxide</div>					
<div>VOC (Directive 2004/42/EC) :</div> <div>Interior matt walls and ceilings (Gloss &lt; 25@60°).</div> <div>VOC given in g/litre of product in a ready-to-use condition :</div> <div>Limit value:</div>							
		<div>1,29</div> <div>30,00</div>					
<div>2.3. Other hazards</div>							
<div>On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.</div> <div>The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.</div>							
<div>SECTION 3. Composition/information on ingredients</div>							
<div>3.2. Mixtures</div>							
<div>Contains:</div>							
<div>Identification</div>		<div>x = Conc. %</div>		<div>Classification (EC) 1272/2008 (CLP)</div>			
<div>Calcium dihydroxide</div>							
<div>INDEX</div>		<div>5 ≤ x &lt; 7</div>		<div>Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335</div>			
<div>EC</div>		<div>215-137-3</div>					
<div>CAS</div>		<div>1305-62-0</div>					
<div>REACH Reg.</div>		<div>01-2119475151-45</div>					
<div>2-methoxy-1-methylethyl acetate</div>							
<div>INDEX</div>		<div>607-195-00-7</div>		<div>0,014 ≤ x &lt; 0,02</div>		<div>Flam. Liq. 3 H226</div>	
<div>EC</div>		<div>203-603-9</div>					
<div>CAS</div>		<div>108-65-6</div>					
<div>REACH Reg.</div>		<div>01-2119475791-29</div>					
<div>1-methoxypropan-2-ol</div>							
<div>INDEX</div>		<div>603-064-00-3</div>		<div>0,0085 ≤ x &lt; 0,0096</div>		<div>Flam. Liq. 3 H226, STOT SE 3 H336</div>	
<div>EC</div>		<div>203-539-1</div>					
<div>CAS</div>		<div>107-98-2</div>					
<div>REACH Reg.</div>		<div>01-2119457435-35</div>					
<div>The full wording of hazard (H) phrases is given in section 16 of the sheet.</div>							
<div>SECTION 4. First aid measures</div>							
<div>4.1. Description of first aid measures</div>							
<div>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.</div> <div>SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.</div> <div>INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.</div> <div>INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.</div>							
<div>4.2. Most important symptoms and effects, both acute and delayed</div>							
<div>Specific information on symptoms and effects caused by the product are unknown.</div>							
<div>4.3. Indication of any immediate medical attention and special treatment needed</div>							
<div>Information not available</div>							

EPY 11.5.1 - SDS 1004.14

## 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

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 2022

## 2-methoxy-1-methylethyl acetate

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	270	50	270	50	
MAK	DEU	270	50	270	50	
VLA	ESP	275	50	550	100	SKIN
VLEP	FRA	275	50	550	100	SKIN
VLEP	ITA	275	50	550	100	SKIN
NDS/NDSch	POL	260		520		SKIN
WEL	GBR	274	50	548	100	SKIN
OEL	EU	275	50	550	100	SKIN

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,635	mg/l
Normal value in marine water	0,0635	mg/l
Normal value for fresh water sediment	3,29	mg/kg
Normal value for marine water sediment	0,329	mg/kg
Normal value for water, intermittent release	635	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	0,29	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,67 mg/kg/d				
Inhalation			10	33 mg/m3			10	275 mg/m3
Skin				54,8 mg/kg/d				153,5 mg/kg/d

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## 1-methoxypropan-2-ol

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	370	100	740	200	
MAK	DEU	370	100	740	200	
VLA	ESP	375	100	568	150	SKIN
VLEP	FRA	188	50	375	100	SKIN
VLEP	ITA	375	100	568	150	SKIN
NDS/NDSch	POL	180		360		SKIN
WEL	GBR	375	100	560	150	SKIN
OEL	EU	375	100	568	150	SKIN

## Predicted no-effect concentration - PNEC

Normal value in fresh water	10	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	41,6	mg/kg
Normal value for marine water sediment	4,17	mg/kg
Normal value for water, intermittent release	100	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	2,47	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral						3,3 mg/kg/d		
Inhalation				43,9 mg/m3			553,5 mg/m3	369 mg/m3
Skin				18,1 mg/kg/d				50,6 mg/kg/d

## Calcium dihydroxide

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / 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 concentration - PNEC

Normal value in fresh water	0,49	mg/l
Normal value in marine water	0,32	mg/l
Normal value for water, intermittent release	0,49	mg/l
Normal value of STP microorganisms	3	mg/l
Normal value for the terrestrial compartment	1080	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	4 mg/m3		1 mg/m3		4 mg/m3		1 mg/m3	

## 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.

<div>  </div>	<div> <div>OIKOS S.P.A. A SOCIO UNICO</div> <div>ARGILLA MATERICA</div> </div>	<div> <div>Revision nr.2</div> <div>Dated 20/01/2025</div> <div>Printed on 20/01/2025</div> <div>Page n. 6 / 13</div> <div>Replaced revision:1 (Dated 10/12/2024)</div> <div>EN</div> </div>																																																																														
<div>SECTION 8. Exposure controls/personal protection ... / &gt;&gt;</div>																																																																																
<div> <p>Personal protective equipment must be CE marked, showing that it complies with applicable standards.</p> <p>Provide an emergency shower with face and eye wash station.</p> <p><b>HAND PROTECTION</b></p> <p>Protect hands with category III work gloves.</p> <p>The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, failure time and permeability.</p> <p>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.</p> <p><b>SKIN PROTECTION</b></p> <p>Wear category I 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.</p> <p><b>EYE PROTECTION</b></p> <p>Wear airtight protective goggles (see standard EN 166).</p> <p><b>RESPIRATORY PROTECTION</b></p> <p>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.</p> <p>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.</p> <p>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.</p> <p><b>ENVIRONMENTAL EXPOSURE CONTROLS</b></p> <p>The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.</p> </div>																																																																																
<div>SECTION 9. Physical and chemical properties</div>																																																																																
<div> <div>9.1. Information on basic physical and chemical properties</div> <table> <tr> <th>Properties</th><th>Value</th><th>Information</th></tr> <tr> <td>Appearance</td><td>paste</td><td></td></tr> <tr> <td>Colour</td><td>White and the colour chart shades</td><td></td></tr> <tr> <td>Odour</td><td>typical</td><td></td></tr> <tr> <td>Odour threshold</td><td>not applicable</td><td></td></tr> <tr> <td>Melting point / freezing point</td><td>not applicable</td><td></td></tr> <tr> <td>Initial boiling point</td><td>&gt; 100 °C</td><td></td></tr> <tr> <td>Boiling range</td><td>not applicable</td><td></td></tr> <tr> <td>Flammability</td><td>not available</td><td></td></tr> <tr> <td>Lower explosive limit</td><td>not applicable</td><td></td></tr> <tr> <td>Upper explosive limit</td><td>not applicable</td><td></td></tr> <tr> <td>Flash point</td><td>&gt; 60 °C</td><td></td></tr> <tr> <td>Auto-ignition temperature</td><td>not applicable</td><td></td></tr> <tr> <td>Decomposition temperature</td><td>not applicable</td><td></td></tr> <tr> <td>Self-accelerating decomposition temperature (SADT)</td><td>not applicable</td><td></td></tr> <tr> <td>pH</td><td>12</td><td>Method:Internal pH method IGQ/0024, CRISON Digital pH meter</td></tr> <tr> <td>Kinematic viscosity</td><td>not applicable</td><td></td></tr> <tr> <td>Dynamic viscosity</td><td>Tixotropico</td><td>Method:Viscosity Internal Method IGQ/0027 BROOKFIELD Viscometer</td></tr> <tr> <td>Solubility</td><td>not determined</td><td></td></tr> <tr> <td>Dissolution rate</td><td></td><td></td></tr> <tr> <td>Partition coefficient: n-octanol/water</td><td>not determined</td><td></td></tr> <tr> <td>Dispersion stability</td><td></td><td></td></tr> <tr> <td>Vapour pressure</td><td>not determined</td><td></td></tr> <tr> <td>Density and/or relative density</td><td>1,5</td><td>Method:Internal specific gravity method IGQ/0023, Pycnometer.</td></tr> <tr> <td>Relative vapour density</td><td>not applicable</td><td></td></tr> <tr> <td>Particle characteristics</td><td>not applicable</td><td></td></tr> </table> <div>9.2. Other information</div> </div>			Properties	Value	Information	Appearance	paste		Colour	White and the colour chart shades		Odour	typical		Odour threshold	not applicable		Melting point / freezing point	not applicable		Initial boiling point	> 100 °C		Boiling range	not applicable		Flammability	not available		Lower explosive limit	not applicable		Upper explosive limit	not applicable		Flash point	> 60 °C		Auto-ignition temperature	not applicable		Decomposition temperature	not applicable		Self-accelerating decomposition temperature (SADT)	not applicable		pH	12	Method:Internal pH method IGQ/0024, CRISON Digital pH meter	Kinematic viscosity	not applicable		Dynamic viscosity	Tixotropico	Method:Viscosity Internal Method IGQ/0027 BROOKFIELD Viscometer	Solubility	not determined		Dissolution rate			Partition coefficient: n-octanol/water	not determined		Dispersion stability			Vapour pressure	not determined		Density and/or relative density	1,5	Method:Internal specific gravity method IGQ/0023, Pycnometer.	Relative vapour density	not applicable		Particle characteristics	not applicable	
Properties	Value	Information																																																																														
Appearance	paste																																																																															
Colour	White and the colour chart shades																																																																															
Odour	typical																																																																															
Odour threshold	not applicable																																																																															
Melting point / freezing point	not applicable																																																																															
Initial boiling point	> 100 °C																																																																															
Boiling range	not applicable																																																																															
Flammability	not available																																																																															
Lower explosive limit	not applicable																																																																															
Upper explosive limit	not applicable																																																																															
Flash point	> 60 °C																																																																															
Auto-ignition temperature	not applicable																																																																															
Decomposition temperature	not applicable																																																																															
Self-accelerating decomposition temperature (SADT)	not applicable																																																																															
pH	12	Method:Internal pH method IGQ/0024, CRISON Digital pH meter																																																																														
Kinematic viscosity	not applicable																																																																															
Dynamic viscosity	Tixotropico	Method:Viscosity Internal Method IGQ/0027 BROOKFIELD Viscometer																																																																														
Solubility	not determined																																																																															
Dissolution rate																																																																																
Partition coefficient: n-octanol/water	not determined																																																																															
Dispersion stability																																																																																
Vapour pressure	not determined																																																																															
Density and/or relative density	1,5	Method:Internal specific gravity method IGQ/0023, Pycnometer.																																																																														
Relative vapour density	not applicable																																																																															
Particle characteristics	not applicable																																																																															
<div> <div>EPY 11.5.1 - SDS 1004.14</div> </div>																																																																																

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

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

VOC (Directive 2004/42/EC) :	0,09 %	-	1,29	g/litre
VOC (volatile carbon)	0,01 %	-	0,20	g/litre

**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

## 2-methoxy-1-methylethyl acetate

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

## 1-methoxypropan-2-ol

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

**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.

## 2-methoxy-1-methylethyl acetate

May react violently with: oxidising substances, strong acids, alkaline metals.

## 1-methoxypropan-2-ol

May react dangerously with: strong oxidising agents, strong acids.

**10.4. Conditions to avoid**

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

## 1-methoxypropan-2-ol

Avoid exposure to: air.

**10.5. Incompatible materials**

## 2-methoxy-1-methylethyl acetate

Incompatible with: oxidising substances, strong acids, alkaline metals.

## 1-methoxypropan-2-ol

Incompatible with: oxidising substances, strong acids, alkaline metals.

**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

## 2-methoxy-1-methylethyl acetate

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

## Calcium dihydroxide

## ABSORPTION

The primary effect of calcium dihydroxide 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.

## SECTION 11. Toxicological information ... / &gt;&gt;

Information on likely routes of exposure

2-methoxy-1-methylethyl acetate

WORKERS: inhalation; contact with the skin.

1-methoxypropan-2-ol

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

2-methoxy-1-methylethyl acetate

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

1-methoxypropan-2-ol

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies.

Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

2-methoxy-1-methylethyl acetate

LD50 (Oral):

&gt; 5000 mg/kg

1-methoxypropan-2-ol

LD50 (Dermal):

&gt; 2000 mg/kg Rabbit

LD50 (Oral):

4016 mg/kg Rat

Calcium dihydroxide

LD50 (Dermal):

&gt; 2500 mg/kg Rabbit (OCSE 402)

LD50 (Oral):

&gt; 2000 mg/kg Rat (OECD 425)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

Calcium dihydroxide

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Calcium dihydroxide

Causes severe eye injury

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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



## SECTION 11. Toxicological information ... / &gt;&gt;

Calcium dihydroxide

Reverse Bacterial Mutation Essay (Ames Test, OECD 471): Negative

Testing chromosomal aberrations on mammal cells: negative

Given that calcium is an omnipresence 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.

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)<sub>2</sub> 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)<sub>2</sub> 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/m<sup>3</sup> of breathable dust.

Therefore, the classification of Ca(OH)<sub>2</sub> 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/m<sup>3</sup> of breathable dust.

**SECTION 11. Toxicological information** ... / >>**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.

**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 dihydroxide 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.

2-methoxy-1-methylethyl acetate

LC50 - for Fish > 100 mg/l/96h 100-180

1-methoxypropan-2-ol

LC50 - for Fish 6,812 mg/l/96h

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

**12.2. Persistence and degradability**

2-methoxy-1-methylethyl acetate

Rapidly degradable

1-methoxypropan-2-ol

Solubility in water

1000 - 10000 mg/l

Rapidly degradable

**12.3. Bioaccumulative potential**

2-methoxy-1-methylethyl acetate

Partition coefficient: n-octanol/water

1,2

**12.4. Mobility in soil**

Calcium dihydroxide


Calcium dihydroxide 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.

<div>  </div>	<div> <div>OIKOS S.P.A. A SOCIO UNICO</div> <div>ARGILLA MATERICA</div> </div>	<div> <div>Revision nr.2</div> <div>Dated 20/01/2025</div> <div>Printed on 20/01/2025</div> <div>Page n. 11 / 13</div> <div>Replaced revision:1 (Dated 10/12/2024)</div> <div>EN</div> </div>
<div>SECTION 12. Ecological information ... / &gt;&gt;</div>		
<div> <div>12.7. Other adverse effects</div> <div>Information not available</div> </div>		
<div>SECTION 13. Disposal considerations</div>		
<div> <div>13.1. Waste treatment methods</div> <div> 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. </div> </div>		
<div>SECTION 14. Transport information</div>		
<div> <div>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.</div> <div> <div>14.1. UN number or ID number</div> <div>not applicable</div> </div> <div> <div>14.2. UN proper shipping name</div> <div>not applicable</div> </div> <div> <div>14.3. Transport hazard class(es)</div> <div>not applicable</div> </div> <div> <div>14.4. Packing group</div> <div>not applicable</div> </div> <div> <div>14.5. Environmental hazards</div> <div>not applicable</div> </div> <div> <div>14.6. Special precautions for user</div> <div>not applicable</div> </div> <div> <div>14.7. Maritime transport in bulk according to IMO instruments</div> <div>Information not relevant</div> </div> </div>		
<div>SECTION 15. Regulatory information</div>		
<div> <div>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</div> <div> <div>Seveso Category - Directive 2012/18/EU:</div> <div>None</div> </div> <div> <div>Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006</div> <div> <div>Product</div> <div>Point</div> <div>3 - 40</div> </div> <div> <div>Contained substance</div> <div>Point</div> <div>75</div> </div> </div> <div> <div>Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors</div> <div>not applicable</div> </div> <div> <div>Substances in Candidate List (Art. 59 REACH)</div> <div>On the basis of available data, the product does not contain any SVHC in percentage <math>\geq</math> than 0,1%.</div> </div> <div> <div>Substances subject to authorisation (Annex XIV REACH)</div> <div></div> </div> </div>		
<div> <div>EPY 11.5.1 - SDS 1004.14</div> </div>		

## SECTION 15. Regulatory information ... / &gt;&gt;

None

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

None

Substances subject to the Rotterdam Convention:

None

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.

VOC (Directive 2004/42/EC) :

Interior matt walls and ceilings (Gloss < 25@60°).

## 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:

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.

## 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
- PNEC: Predicted no effect concentration
- 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).

## SECTION 16. Other information ... / &gt;&gt;

## 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:

02 / 03 / 09 / 11 / 12 / 15.