

# **Safety Data Sheet**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

#### **BIOCALCE MARMORINO**

Date of first edition: 5/24/2021 Safety Data Sheet dated 9/15/2021

version 6

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

#### 1.1. Product identifier

Mixture identification:

Trade name: BIOCALCE MARMORINO

Trade code: 001043004

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

Recommended use: Grout

Uses advised against: Not available

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

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

# 1.4. Emergency telephone number

European emergency phone number 112

Kerakoll Italy - +39-0536-816511

Ireland

Poison information centre: 01 809 2166 (Daily 8am-10pm)

In case of emergency call 999 or 112

Malta

In case of emergency call: +356 2395 2000 (24h)

## **SECTION 2: Hazards identification**



# 2.1. Classification of the substance or mixture

# Regulation (EC) n. 1272/2008 (CLP)

Eye Dam. 1 Causes serious eye damage.

Skin Irrit. 2 Causes skin irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

# 2.2. Label elements

# Regulation (EC) No 1272/2008 (CLP):

# **Pictograms and Signal Words**



Danger

#### **Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

# **Precautionary statements**

P280 Wear protective gloves and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.

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to do. Continue rinsing.

P501 Dispose of contents/container in accordance with applicable regulations.

**Special Provisions:** 

EUH208 Contains 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

**Contains** 

Calcium dihydroxide

# Dir. 2004/42/EC (VOC directive)

Exterior walls of mineral substrate

EU limit value for this product (cat. A/c): 40 g/l

This product contains max 12.36 q/l VOC.

# Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq$  0.1%.

Other Hazards: No other hazards

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

N.A.

# 3.2. Mixtures

Mixture identification: BIOCALCE MARMORINO

#### Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
10-19,9 %	Calcium dihydroxide	CAS:1305-62-0 EC:215-137-3	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	01-2119475151-45
< 0,01 %	octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	CAS:26530-20-1 EC:247-761-7 Index:613-112-00-5	Acute Tox. 2, H330; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Corrosive to the respiratory tract., M-Chronic:100, M-Acute:1  Specific Concentration Limits: C ≥ 0.0015%: Skin Sens. 1A H31;  Acute Toxicity Estimate: ATE - Oral: 125mg/kg bw ATE - Dermal: 311mg/kg bw	
< 0,0015 %	2-methylisothiazol-3(2H)-one	CAS:2682-20-4 EC:220-239-6 Index:613-326-00-9	Acute Tox. 2, H330; Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:10, EUH071  Specific Concentration Limits: $C \ge 0.0015\%$ : Skin Sens. 1A H31	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

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In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

Eye irritation

Eye damages

Skin Irritation

Ervthema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

# 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

# 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

# 6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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

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# **SECTION 8: Exposure controls/personal protection 8.1. Control parameters**

# **Community Occupational Exposure Limits (OEL)**

Component	OEL Type	Country	Ceiling	Long Term	Long Term	Short Term	Short Term	Notes
				mg/m3	ppm	mg/m3	ppm	
Calcium carbonate	NATIONAL	AUSTRALIA		10.000				This value is for inhalable dust containing no asbestos and <1 % crystalline silica.
	NATIONAL	CANADA		10.000				
	NATIONAL	FRANCE		10.000				inhalable aerosol
	NATIONAL	HUNGARY		10.000				inhalable aerosol
	NATIONAL	IRELAND		10.000				Inhalable fraction
	NATIONAL	IRELAND		4.000				Respirable fraction
	NATIONAL	LATVIA		6.000				
	NATIONAL	NEW ZEALAND		10.000				The value for inhalable dust containing no asbestos and less than 1% free silica.
	NATIONAL	POLAND		10.000				
	NATIONAL	SINGAPORE	Ē	10.000				(limestone, marble)
	NATIONAL	SWITZERLA ND	٨	3.000				respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA		15.000				total dust
	NATIONAL	UNITED STATES OF AMERICA		5.000				respirable dust
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		10.000				inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		4.000				respirable aerosol
	NATIONAL	ITALY		10.000				
	NATIONAL	BELGIUM		10.000				
	NATIONAL	KOREA, REPUBLIC OF		10.000				
	NATIONAL	CROATIA		10.000				
	NATIONAL	NETHERLA NDS		10.000				
	NATIONAL	PORTUGAL		10.000				
	NATIONAL	SPAIN		10.000				
	NATIONAL			5.000				respirable fraction
Calcium dihydroxide		AUSTRALIA		5.000				

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NATIONAL	AUSTRIA	1.000		Inhalable fraction
NATIONAL	AUSTRIA C		4.000	Inhalable fraction
NATIONAL	BELGIUM	5.000		
NATIONAL	CANADA	5.000		Ontario
NATIONAL	CANADA	5.000		Quebec
NATIONAL	DENMARK	5.000	10.000	
NATIONAL	FINLAND	1.000	4.000	
NATIONAL	FRANCE	1.000	4.000	Italics type: Indicative statutory limit values; long term and short term: respirable fraction
NATIONAL	GERMANY	1.000	2.000	ASG; Long term and short term: inhalable fraction
NATIONAL	GERMANY	1.000	2.000	DFG; Long term and short term: inhalable aerosol
NATIONAL	HUNGARY	5.000		
NATIONAL	IRELAND	5.000		
NATIONAL	LATVIA	1.000	4.000	Long term and short term: respirable fraction
NATIONAL	NEW ZEALAND	5.000		
NATIONAL	ROMANIA	1.000	4.000	Long term and short term: respirable fraction
NATIONAL	SINGAPORE	5.000		
NATIONAL	SPAIN	5.000		
NATIONAL	SWEDEN	1.000	4.000	Long term and short term: respirable fraction
NATIONAL	SWITZERLA ND	5.000		Inhalable aerosol
NATIONAL	TURKEY	5.000		
NATIONAL	UNITED STATES OF AMERICA	5.000		NIOSH
NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA; inhalable aerosol
NATIONAL	UNITED STATES OF AMERICA	5.000		OSHA; respirable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	5.000		Inhalable fraction
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	1.000		Respirable fraction
NATIONAL	ITALY	1.000	4.000	
	ARGENTINA	5.000		
NATIONAL	KOREA, REPUBLIC OF	5.000		
NATIONAL	INDONESIA	5.000		

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NATIONAL	MALAYSIA	5.000				
NATIONAL	MEXICO	5.000				
NATIONAL	PORTUGAL	5.000				
NATIONAL	SOUTH AFRICA	5.000				
NATIONAL	TAIWAN, PROVINCE OF CHINA	5.000				
NATIONAL	BULGARIA	1.000		4.000		
NATIONAL	CZECHIA	1.000		4.000		
NATIONAL	CROATIA	1.000		4.000		Long term and short term: respirable dust
NATIONAL	ESTONIA	1.000		4.000		
NATIONAL	ICELAND	1.000		4.000		
NATIONAL	LITHUANIA	1.000		4.000		
NATIONAL	NORWAY	1.000		4.000		
NATIONAL	NETHERLA NDS	1.000		4.000		
NATIONAL	SLOVAKIA	1.000		4.000		
NATIONAL	SLOVENIA	1.000		4.000		
NATIONAL	RUSSIAN FEDERATIO N				2.000	
NATIONAL	POLAND	2.000		6.000		Long term and short term: inhalable fraction
NATIONAL	POLAND	1.000		4.000		Long term and short term: respirable fraction
ACGIH	NNN	5				Eye, URT and skin irr
EU	NNN	1		4		Respirable fraction
NATIONAL	AUSTRALIA	5.000				
NATIONAL	AUSTRIA	5.000		10.000		long term and short term: respirable aerosol
NATIONAL	BELGIUM	5.000	2.000			
NATIONAL	CANADA	5.000				Ontario; respirable aerosol
NATIONAL	CANADA	5.000				Québec
NATIONAL	DENMARK	3.500		7.000		
NATIONAL	FINLAND	5.000				Calculed as Fe; fume
NATIONAL	HUNGARY	6.000				Respirable aerosol
NATIONAL	IRELAND	5.000		10.000		
NATIONAL	NEW ZEALAND	5.000				
NATIONAL	POLAND	5.000		10.000		
NATIONAL	ROMANIA	5.000		10.000		
NATIONAL	SINGAPORE	5.000				
NATIONAL	KOREA, REPUBLIC OF	5.000				
NATIONAL	SPAIN	5.000				
NATIONAL	SWEDEN	3.500				
NATIONAL	SWITZERLA ND	3.000				Respirable aerosol
NATIONAL	UNITED STATES OF AMERICA	5.000				NIOSH; AS Fe, total particulate
NATIONAL	UNITED	10.000				OSHA

Diiron trioxide

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	STATES OF AMERICA				
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	5.000		10.000	
NATIONAL	ITALY	5.000			
NATIONAL	ARGENTINA	5.000			
NATIONAL	BULGARIA	5.000			
NATIONAL	CROATIA	5.000			
NATIONAL	ESTONIA	3.500			
NATIONAL	FRANCE	5.000			
NATIONAL	GERMANY	1.250			
NATIONAL	GREECE	10.000		10.000	
NATIONAL	INDONESIA	5.000			
NATIONAL	ICELAND	3.500			
NATIONAL	LITHUANIA	3.500			
NATIONAL	MALAYSIA	5.000	2.000		
NATIONAL	MEXICO	5.000			Respirable fraction
NATIONAL	NORWAY	3.000			
NATIONAL	PORTUGAL	5.000			
NATIONAL	RUSSIAN FEDERATIO N	6.000			
NATIONAL	SLOVAKIA	1.500			
NATIONAL	SLOVENIA	6.000			
NATIONAL	SOUTH AFRICA	5.000			Respirable particulate
NATIONAL	SOUTH AFRICA	10.000			Inhalable particulate
NATIONAL	TAIWAN, PROVINCE OF CHINA	10.000			
NATIONAL	HUNGARY	6.000			
ACGIH	NNN	5			(R), A4 - Pneumoconiosis
NATIONAL	AUSTRALIA	10.000			This value is for inhalable dust containing no asbestos and < 1% crystalline silica
NATIONAL	BELGIUM	10.000			
NATIONAL	CANADA	10.000			Ontario
NATIONAL	CANADA	10.000			Quebec
NATIONAL	DENMARK	6.000		12.000	Long term and short term: total dust
NATIONAL	FRANCE	11.000			Inhalable aerosol
NATIONAL	GERMANY	0.300		2.400	DFG; Long term and short term: excluding ultrafine particles; respirable fraction; multiplied by the material density;
NATIONAL	IRELAND	10.000			Inhalable fraction
NATIONAL	IRELAND	8.000			Respirable fraction
NATIONAL	JAPAN	0.300			JSOH; Nanoparticle, as Ti
NATIONAL	LATVIA	10.000			
NATIONAL	NEW ZEALAND	10.000			The value for inhalable dust containing no asbestos and

Titanium dioxide

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				less than 1% free since
NATIONAL	CHINA	8.000		Inhalable fraction
NATIONAL	POLAND	10.000	30.000	
NATIONAL	ROMANIA	10.000	15.000	
NATIONAL	SINGAPORE	10.000		
NATIONAL	KOREA, REPUBLIC OF	10.000		
NATIONAL	SPAIN	10.000		Inhalable aerosol
NATIONAL	SWEDEN	5.000		Inhalable aerosol
NATIONAL	SWITZERLA ND	3.000		Respirable aerosol
NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA; total dust
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000		Inhalable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000		Respirable aerosol
NATIONAL	ITALY	10.000		
NATIONAL	ARGENTINA	10.000		
NATIONAL	AUSTRIA	5.000	10.000	
NATIONAL	BULGARIA	10.000		
NATIONAL	CROATIA	10.000		Total dust
NATIONAL	CROATIA	4.000		Respirable dust
NATIONAL	ESTONIA	5.000		
NATIONAL	GREECE	10.000		
NATIONAL	GREECE	5.000		
NATIONAL	INDONESIA	10.000		
NATIONAL	LITHUANIA	5.000		
NATIONAL	MALAYSIA	10.000		
NATIONAL	MEXICO	10.000		
NATIONAL	NORWAY	5.000		
NATIONAL	PORTUGAL	10.000		
NATIONAL	RUSSIAN FEDERATIO N	10.000		
NATIONAL	SLOVAKIA	5.000		
NATIONAL	SLOVENIA	6.000		
NATIONAL	SOUTH AFRICA	10.000		Inhalable particulate
NATIONAL	SOUTH AFRICA	5.000		Respirable particulate
NATIONAL	TAIWAN, PROVINCE OF CHINA	10.000		
ACGIH	NNN	10		A4 - LRT irr
NATIONAL	AUSTRALIA	10.000		

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Barium sulfate

	NATIONAL	BELGIUM	5.000			Without asbestos fibers and <1% crystalline silica
	NATIONAL	CANADA	5.000			Ontario; This value is for particulate matter containing no asbestos and <1% crystalline silica
	NATIONAL	CANADA	10.000			Quebec
	NATIONAL	GERMANY	0.300		2.400	DFG; Multiplied by the density of the material; Long term and short term: respirable fraction
	NATIONAL	GERMANY	4.000			DFG; Inhalable fraction
	NATIONAL	IRELAND	2.000			Respirable fraction
	NATIONAL	LATVIA	6.000			
	NATIONAL	NEW ZEALAND	10.000			
	NATIONAL	CHINA	10.000			
	NATIONAL	CHINA	5.000			Inhalable fraction; barite
	NATIONAL	SINGAPORE	10.000			
	NATIONAL	SPAIN	10.000			Inhalable aerosol
	NATIONAL	UNITED STATES OF AMERICA	10.000			NIOSH; total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000			NIOSH; respirable fraction
	NATIONAL	UNITED STATES OF AMERICA	15.000			OSHA; inhalable fraction
	NATIONAL	UNITED STATES OF AMERICA	5.000			OSHA; respirable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000			Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000			Respirable aerosol
	ACGIH	NNN	5			(I, E) - Pneumoconiosis
Poly(oxy-1,2- ethanediyl),α-hydro-ω -hydroxy- Ethane-1,2- diol, ethoxylated		AUSTRIA	1000.000		4000.000	Long term and short term: INHALABLE FRACTION
	NATIONAL	DENMARK	1000.000		2000.000	
	NATIONAL		1000.000		8000.000	AGS; Long term and short term: inhalable aerosol
	NATIONAL	GERMANY	200.000		400.000	DFG; Long term and short term: inhalable aerosol
	NATIONAL	SWITZERLA ND	1	000.000		
	NATIONAL	RUSSIAN FEDERATIO N			10.000	

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	NATIONAL	SLOVAKTA	100.000		
Aluminium hydroxide			10.000	20.000	Long term and short term:
, warminam ny aroxide		7.00 Trust	10.000	20.000	inhalable fraction; short term: 60 minutes average value
	NATIONAL	AUSTRIA	5.000	10.000	Long term and short term: respirable fraction; short term: 60 minutes average value
	NATIONAL	GERMANY	4.000		Inhalable aerosol
	NATIONAL	GERMANY	1.500		Respirable aerosol
	NATIONAL	LATVIA	6.000		
	NATIONAL	POLAND	2.500		Fume, total dust
	NATIONAL	POLAND	1.200		Fume, respirable dust
	NATIONAL	SWITZERLA ND	3.000		Respirable aerosol
	NATIONAL	ARGENTINA	2.000		
	NATIONAL	AUSTRALIA	2.000		
	NATIONAL	BELGIUM	2.000		
	NATIONAL	BULGARIA	2.000		
	NATIONAL	CANADA	10.000		
	NATIONAL	KOREA, REPUBLIC OF	2.000		
	NATIONAL	CROATIA	2.000		
	NATIONAL	DENMARK	1.000		
	NATIONAL	ESTONIA	2.000		
	NATIONAL	FINLAND	2.000		
	NATIONAL	FRANCE	2.000		
	NATIONAL	KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	2.000		
	NATIONAL	GREECE	2.000		
	NATIONAL	INDONESIA	2.000		
	NATIONAL	IRELAND	2.000		
	NATIONAL	ICELAND	2.000		
	NATIONAL	LITHUANIA	6.000		
	NATIONAL		2.000		
	NATIONAL	NEW ZEALAND	5.000		
	NATIONAL	RUSSIAN FEDERATIO N	6.000		
	NATIONAL	SLOVAKIA	2.000		
	NATIONAL	SLOVENIA	6.000		
	NATIONAL	SPAIN	2.000		
	NATIONAL	SWEDEN	1.000		
	NATIONAL	SWEDEN	1.000		
silicon dioxide, chemically prepared	NATIONAL	AUSTRALIA	2.000		This value is for inhalable dust containing no asbestos and < 1% crystalline silica
	NATIONAL	AUSTRIA	4.000		Inhalable aerosol
	NATIONAL	BELGIUM	10.000		
	NATIONAL	CANADA	10.000		Ontario
	NATIONAL	CANADA	6.000		Quebec

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NATIONAL	DENMARK	2.000	4.000	Inhalable aerosol
NATIONAL	FINLAND	5.000		
NATIONAL	GERMANY	4.000		AGS; Inhalable aerosol
NATIONAL	GERMANY	4.000		DFG; Inhalable aerosol
NATIONAL	IRELAND	6.000		Inhalable fraction
NATIONAL	IRELAND	2.400		Respirable fraction
NATIONAL	LATVIA	1.000		
NATIONAL	NEW ZEALAND	1.000		
NATIONAL	CHINA	2.000		Inhalable fraction
NATIONAL	SINGAPORE	10.000		
NATIONAL	KOREA, REPUBLIC OF	10.000		
NATIONAL	SWITZERLA ND	4.000		Inhalable aerosol
NATIONAL	UNITED STATES OF AMERICA	80.000		OSHA; 80/ % silica total dust (MG3)
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	6.000		Inhalable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	2.400		Respirable aerosol
NATIONAL	ESTONIA	2.000		
NATIONAL	SLOVENIA	4.000		Inhalable fraction
NATIONAL	SOUTH AFRICA	6.000		Inhalable particulate
NATIONAL	SOUTH AFRICA	3.000		Respirable particulate
NATIONAL	AUSTRALIA	10.000		
NATIONAL	BELGIUM	10.000		
NATIONAL	CANADA	10.000		Ontario
NATIONAL	CANADA	10.000		Quebec
NATIONAL	DENMARK	6.000	12.000	Long term and short term: inhalable aerosol
NATIONAL	FRANCE	10.000		Respirable aerosol
NATIONAL	GERMANY	4.000		DFG; inhalable aerosol
NATIONAL	GERMANY		1.500	DFG; respirable aerosol
NATIONAL	HUNGARY	6.000	24.000	Long term and short term: respirable aerosol
NATIONAL	IRELAND	10.000		Respirable fraction
NATIONAL	IRELAND		4.000	Inhalable fraction
NATIONAL	IRELAND	5.000		Fume
NATIONAL	IRELAND	10.000		Inhalable fraction
NATIONAL	NEW ZEALAND	10.000		Fume
NATIONAL	CHINA	10.000		
NATIONAL		5.000		Fume

Magnesium oxide

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NATIONAL	POLAND	10.000		Dust
NATIONAL	SINGAPORE	10.000		
NATIONAL	KOREA, REPUBLIC OF	10.000		
NATIONAL	SPAIN	10.000		Inhalable aerosol
NATIONAL		10.000		Respirable aerosol
	SWITZERLA	3.000		Respirable aerosol
NATIONAL	ND	3.000		Respirable delosor
NATIONAL	UNITED STATES OF AMERICA	15.000		OSHA; total dust
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000		Inhalable aerosol
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000		Respirable aerosol
NATIONAL	ITALY	10.000		
NATIONAL	ARGENTINA	10.000		
NATIONAL	AUSTRIA	10.000		
NATIONAL	CZECHIA	5.000	10.000	
NATIONAL	CROATIA	10.000		total dust
NATIONAL	CROATIA	4.000		Respirable dust
NATIONAL	GREECE	10.000		·
NATIONAL	GREECE	5.000		
NATIONAL	INDONESIA	10.000		
NATIONAL		6.000		
	LITHUANIA	4.000		
NATIONAL		10.000		
NATIONAL	-	10.000		Respirable fraction
NATIONAL		10.000		Respirable fraction
NATIONAL		10.000		
	PORTUGAL	10.000		
			15.000	
NATIONAL NATIONAL		5.000	4.000	
	N			
NATIONAL	SLOVAKIA	4.000		respirable fraction
NATIONAL	SLOVAKIA	10.000		Inhalable fraction
NATIONAL	SLOVENIA	6.000		
NATIONAL	SOUTH AFRICA	5.000	10.000	fume and respirable particulate
NATIONAL	SOUTH AFRICA	10.000		Inhalable particulate
NATIONAL	TAIWAN, PROVINCE OF CHINA	10.000		Fume
NATIONAL	AUSTRALIA	0.100		Respirable fraction
NATIONAL	AUSTRIA	0.150		respirable aerosol

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Quartz

NATIONAL	BELGIUM	0.100			
NATIONAL	CANADA	0.100			Canada Ontario. Respirable aerosol
NATIONAL	CANADA	0.100			Canada Quebec
NATIONAL	DENMARK	0.300		0.600	Inhalable aerosol
NATIONAL	DENMARK	0.100		0.200	Respirable aerosol
NATIONAL	FINLAND	0.050			Respirable fraction
NATIONAL	FRANCE	0.100			Respirable aerosol
NATIONAL	HUNGARY	0.150			Respirable aerosol
NATIONAL	IRELAND	0.100			Respirable fraction
NATIONAL	NEW ZEALAND	0.200			Respirable aerosol
NATIONAL	CHINA	1.000			Inhalable fraction. $10\% <=$ free SiO2 <= 50%.
NATIONAL	CHINA	0.700			Inhalable fraction. $50\% < \text{free}$ $\text{SiO2} <= 80\%$ .
NATIONAL	CHINA	0.500			Inhalable fraction. Free SiO2 $<$ 80%.
NATIONAL	SINGAPORE	0.100			Respirable aerosol.
NATIONAL	SPAIN	0.100			Respirable fraction
NATIONAL	SWEDEN	0.100			Respirable aerosol
NATIONAL	SWITZERLA ND	0.150			Respirable aerosol
NATIONAL	NETHERLA NDS	0.075			Respirable dust
NATIONAL	ITALY	0.050			Silice cristallina
NATIONAL	ITALY	0.025			A2
NATIONAL	UNITED STATES OF AMERICA	0.050			NIOSH
NATIONAL	KOREA, REPUBLIC OF	0.050			
NATIONAL	ARGENTINA	0.050			
NATIONAL	CHILE	0.080			
NATIONAL	CROATIA	0.100			
NATIONAL	ESTONIA	0.100			
NATIONAL	INDIA	10.000			
NATIONAL	LITHUANIA	0.100			
NATIONAL	MALAYSIA	0.100			
NATIONAL	MEXICO	0.025			Respirable fraction
NATIONAL	NORWAY	0.300			Total dust
NATIONAL		0.100			Respirable dust
	PORTUGAL	0.025			·
	SLOVENIA	0.050	0.400		
NATIONAL		0.100	01.00		
	AFRICA	0.100			
ACGIH	NNN	0.025			(R), A2 - Pulm fibrosis, lung cancer
EU	NNN	0.100			(R), A2 - Pulm fibrosis, lung cancer
NATIONAL	AUSTRALIA	10.000			This value is for inhalable dust containing no asbestos and < 1% crystalline silica
NATIONAL	AUSTRALIA	10.000		5.000	Long term and short term:

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zinc oxide

	m	

NATIONAL	BELGIUM	10.000		
NATIONAL	CANADA	2.000	10.000	Ontario; Long term and short term: respirable aerosol
NATIONAL	CANADA	10.000		Quebec
NATIONAL	FRANCE	10.000		•
NATIONAL	-	1.000		Respirable dust
NATIONAL		4.000		Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at the entry of a particle sampler
NATIONAL	LATVIA	0.500		
NATIONAL	NEW ZEALAND	10.000	10.000	
NATIONAL	CHINA	3.000	5.000	
NATIONAL	SINGAPORE	10.000		
NATIONAL	SPAIN	10.000		
NATIONAL	SWEDEN	5.000		
NATIONAL	SWITZERLA ND	3.000	3.000	Long term and short term: respirable fraction
NATIONAL	UNITED C STATES OF AMERICA	15.000	5.000	Total dust
NATIONAL	ITALY	2.000	10.000	
NATIONAL	ARGENTINA	5.000	10.000	Long term and short term: fume
NATIONAL	ARGENTINA	10.000		Dust
NATIONAL	AUSTRIA	5.000		
NATIONAL	BULGARIA	5.000	10.000	
NATIONAL	CZECHIA	2.000	5.000	
NATIONAL	CHILE	10.000	4.400	
NATIONAL	KOREA, REPUBLIC OF	5.000	10.000	
NATIONAL	CROATIA	2.000	10.000	Long term: respirable dust
NATIONAL	DENMARK	4.000		
NATIONAL	ESTONIA	5.000		
NATIONAL	FINLAND	2.000	10.000	
NATIONAL	GREECE	5.000	10.000	
NATIONAL	INDONESIA	2.000	10.000	
NATIONAL	IRELAND	2.000	10.000	Long term: respirable fraction
NATIONAL	LITHUANIA	5.000		
NATIONAL	MALAYSIA	5.000	10.000	
NATIONAL	NORWAY	5.000		
NATIONAL	POLAND	5.000	10.000	
NATIONAL	PORTUGAL	2.000	10.000	
NATIONAL	ROMANIA	5.000	10.000	
NATIONAL	RUSSIAN FEDERATIO N	0.500	1.500	
NATIONAL	SOUTH AFRICA	5.000	10.000	
NATIONAL	TAIWAN, PROVINCE OF CHINA	5.000		

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	NATIONAL	HUNGARY	5.000		20.000		
	ACGIH	NNN	2		10		(R) - Metal fume fever
3-iodo-2-propynyl butylcarbamate; 3- iodoprop-2-yn-1-yl butylcarbamate	NATIONAL	GERMANY	0.058	0.005	0.116	0.010	AGS; long term and short term: inhalable fraction and vapour
	NATIONAL	GERMANY	0.058	0.005	0.116	0.010	DFG
		SWITZERLA	0.120	0.010	0.240	0.020	5. 0
		ND					
	NATIONAL	SLOVENIA	0.120	0.010	0.240	0.020	
octhilinone (ISO); 2- octyl-2H-isothiazol-3- one	NATIONAL	AUSTRIA	0.050		0.050		Long term and short term: inhalable aerosol
	NATIONAL	GERMANY	0.050		0.100		AGS; Long term and short term: inhalable aerosol
	NATIONAL	GERMANY	0.050		0.100		DFG: Long term and short term: inhalable aerosol
	NATIONAL	SWITZERLA ND	0.050		0.100		Long term and short term: inhalable aerosol
	NATIONAL	SLOVENIA	0.050		0.100		Long term and short term: inhalable fraction
2-amino-2- methylpropanol	NATIONAL	GERMANY	3.700	1.000	7.400	2.000	AGS; Long term and short term: inhalable fraction and vapour
	NATIONAL	GERMANY	3.700	1.000	7.400	2.000	DFG; Long term and short term: inhalable fraction and vapour
	NATIONAL	SWITZERLA ND	8.700	2.400	17.400	4.800	
	NATIONAL	SLOVENIA	3.700	1.000	17.400	4.800	
sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen	NATIONAL	RUSSIAN FEDERATIO N			5.000		
sodium hydroxide; caustic soda	NATIONAL	AUSTRALIA C			2		
	NATIONAL	AUSTRIA	2.000		4.000		Long term and short term: inhalable aerosol
	NATIONAL	BELGIUM	2.000				
	NATIONAL	CANADA C			2.000		Ontario
	NATIONAL	CANADA C			2.000		Quebec
	NATIONAL	DENMARK	2.000		2.000		
	NATIONAL	FINLAND C			2.000		
	NATIONAL	FRANCE	2.000				
	NATIONAL	HUNGARY	2.000		2.000		
	NATIONAL	IRELAND			2.000		
	NATIONAL	JAPAN C	2.000				JSOH; Reference value to the maximal exposure concentration of the substance during a working day
	NATIONAL	LATVIA	0.500				
	NATIONAL	NEW C ZEALAND			2.000		
	NATIONAL	CHINA C			2.000		
	NATIONAL	POLAND	0.500		1.000		
	NATIONAL	ROMANIA	1.000		3.000		

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	NATIONAL	SINGAPORE		2.000	
	NATIONAL			2.000	
		REPUBLIC OF			
		Oi			
	NATIONAL	SPAIN	2.000		
	NATIONAL	SWEDEN	1.000	1.000	Long term and short term: inhalable fraction
	NATIONAL	SWITZERLA ND	2.000	2.000	long term and short term: inhalable fraction
	NATIONAL	UNITED C STATES OF AMERICA		2.000	NIOSH
	NATIONAL	UNITED C STATES OF AMERICA	2.000		OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND		2.000	
	NATIONAL	BULGARIA	2.000		
	NATIONAL	CZECHIA	1.000	2.000	
	NATIONAL		1.000	2.000	
	NATIONAL		2.000	2.000	
		SLOVAKIA	2.000	2.000	
		SLOVENIA	2.000		
	NATIONAL		2.000		
	NATIONAL	PROVINCE OF CHINA	2.000		
	ACGIH	NNN C		2	URT, eye, and skin irr
2-methylisothiazol-	NATIONAL		0.050		. , ,
3(2H)-one					
3(2H)-one	NATIONAL	GERMANY	0.200	0.400	DFG; long term: inhalable fraction
3(2H)-one		GERMANY SWITZERLA ND	0.200	0.400	
3(2H)-one	NATIONAL	SWITZERLA			fraction  Long term and short term:
S(2H)-one Kaolin	NATIONAL NATIONAL	SWITZERLA ND	0.100		fraction  Long term and short term:
	NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA	0.100		fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and <
	NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM	0.100 0.050 10.000		fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and <
	NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA	0.100 0.050 10.000 2.000		fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent
	NATIONAL NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA	0.100 0.050 10.000 2.000 2.000		fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent crystalline silica.
	NATIONAL NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA CANADA DENMARK	0.100 0.050 10.000 2.000 2.000 5.000	0.400	fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent crystalline silica.  Canada Québec Respirable aerosol
	NATIONAL NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA CANADA DENMARK FINLAND	0.100 0.050 10.000 2.000 2.000 5.000 2.000	0.400	fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent crystalline silica.  Canada Québec Respirable aerosol Respirable fraction
	NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA CANADA DENMARK FINLAND FRANCE	0.100 0.050 10.000 2.000 2.000 5.000 2.000 2.000 10.000	0.400	fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent crystalline silica.  Canada Québec Respirable aerosol
	NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA CANADA DENMARK FINLAND FRANCE IRELAND	0.100 0.050 10.000 2.000 2.000 5.000 2.000 2.000	0.400	fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent crystalline silica.  Canada Québec Respirable aerosol Respirable fraction
	NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA CANADA DENMARK FINLAND FRANCE IRELAND NEW ZEALAND	0.100 0.050 10.000 2.000 2.000 2.000 2.000 10.000 2.000 10.000	0.400	fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent crystalline silica.  Canada Québec Respirable aerosol Respirable aerosol Inhalable aerosol
	NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL NATIONAL	SWITZERLA ND SLOVENIA AUSTRALIA BELGIUM CANADA CANADA DENMARK FINLAND FRANCE IRELAND NEW ZEALAND	0.100 0.050 10.000 2.000 2.000 5.000 2.000 2.000 10.000 2.000	0.400	fraction  Long term and short term: inhalable fraction  This value is for inhalable dust containing no asbestos and < 1% crystalline silica.  Canada Ontario. Respirable aerosol. The value for this particulate matter containing no asbestos and < 1 percent crystalline silica.  Canada Québec Respirable aerosol Respirable fraction Respirable aerosol

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		ND					
	NATIONAL	UNITED STATES OF AMERICA	15.000				OSHA: Total dust
	NATIONAL	UNITED STATES OF AMERICA	5.000				OSHA: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	10.000				NIOSH: Respirable dust
	NATIONAL	UNITED STATES OF AMERICA	5.000				NIOSH: Respirable fraction
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	2.000				Respirable aerosol
	ACGIH	NNN	2				(E,R), A4 - Pneumoconiosis
reaction mass of 5- chloro-2-methyl-2H- isothiazol-3-one and 2-methyl-2H- isothiazol-3-one (3:1)	NATIONAL	AUSTRIA	0.050				
	NATIONAL	GERMANY	0.200		0.400		DFG; Long term and short term: inhalable fraction
	NATIONAL	SWITZERLA ND	0.200		0.400		Inhalable fraction
	NATIONAL	KOREA, REPUBLIC OF	0.100				
	NATIONAL	NETHERLA NDS	0.200				
dimethyl sulfoxide	NATIONAL	AUSTRIA	160.000	50.000			
	NATIONAL	DENMARK	160.000	50.000	320.000	100.000	
	NATIONAL	FINLAND		50.000			
	NATIONAL	GERMANY	160.000	50.000	320.000	100.000	AGS
	NATIONAL	GERMANY	160.000	50.000	320.000	100.000	DFG
	NATIONAL	SWEDEN	150.000	50.000	500.000	150.000	
	NATIONAL	SWITZERLA ND	160.000	50.000	320.000	100.000	
	NATIONAL	AUSTRIA	160.000	50.000			
	NATIONAL	ESTONIA	150.000	50.000	500.000	150.000	
	NATIONAL	LITHUANIA	150.000	50.000	500.000	150.000	
	NATIONAL	RUSSIAN FEDERATIO N			20.000		
	NATIONAL	SLOVENIA	160.000	50.000	320.000	100.000	
	NATIONAL	UNITED STATES OF AMERICA		250.000			

# **Predicted No Effect Concentration (PNEC) values**

octamethylcyclotetrasi NATIONAL UNITED

loxane

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
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STATES OF

AMERICA

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10.000

OARS WEEL

Calcium dihydroxide	1305-62-0	490.000 μg/l	Freshwater
		490.000 μg/l	Intermittent releases (freshwater)
		320.000 µg/l	Marine water
		3.000 mg/l	Microorganisms in sewage treatments
		1080.000 mg/kg	Soil
octhilinone (ISO); 2- octyl-2H-isothiazol-3-one	26530-20-1	2.200 µg/l	Freshwater
		1.220 µg/l	Intermittent releases (freshwater)
		220.000 ng/L	Marine water
		122.000 ng/L	Intermittent releases (marine water)
		47.500 μg/kg	Freshwater sediments
		47.500 μg/kg	Marine water sediments
		8.200 µg/kg	Soil
2-methylisothiazol-3(2H)- one	2682-20-4	3.390 µg/l	Freshwater
		3.390 µg/l	Intermittent releases (freshwater)
		3.390 µg/l	Marine water
		3.390 µg/l	Intermittent releases (marine water)
		230.000 μg/l	Microorganisms in sewage treatments
		47.100 μg/kg	Soil

# **Derived No Effect Level (DNEL) values**

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
Calcium dihydroxide	1305-62-0		1.000 mg/m <sup>3</sup>	1.000 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
			4.000 mg/m <sup>3</sup>	4.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects
2-methylisothiazol-3(2H) one		21.000 μg/m³	21.000 μg/m³	Human Inhalation	Long Term, local effects	
			43.000 μg/m³	43.000 μg/m³	Human Inhalation	Short Term, local effects
				27.000 μg/kg	Human Oral	Long Term, systemic effects
				53.000 μg/kg	Human Oral	Short Term, systemic effects

# 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

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

# 9.1. Information on basic physical and chemical properties

Physical State Liquid

Color: In compliance with the product description

Odour: Light

Odour threshold: N.A. pH: >=11.00<=11.40 Kinematic viscosity: N.A.

Melting point / freezing point: N.A.
Initial boiling point and boiling range: N.A.

Flash point: Not Applicable

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.60 g/cm3
Solubility in water: Soluble
Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0.77 %; 12.36 g/l

**Particle characteristics:** 

**9.2. Other information**Miscibility: N.A.

Conductivity: N.A.

Particle size: N.A.

Evaporation rate: N.A. No other relevant information

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Stable under normal conditions

# 10.2. Chemical stability

Data not available.

# 10.3. Possibility of hazardous reactions

None.

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

# 10.6. Hazardous decomposition products

None.

# **SECTION 11: Toxicological information**

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

# **Toxicological Information of the Preparation**

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met

c) serious eye damage/irritation Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

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Based on available data, the classification criteria are not met

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

# Toxicological information on main components of the mixture:

Calcium dihydroxide

a) acute toxicity LD50 Oral Rat > 2000.00000 mg/kg

> LC50 Inhalation Dust Rat > 6.04000 mg/l 4h LD50 Skin Rabbit > 2500.00000 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Positive

c) serious eye

damage/irritation

Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Negative

f) carcinogenicity Carcinogenicity Oral Rat = 517.00000 mg/kg **NOAEL** 

octhilinone (ISO); 2octyl-2H-isothiazol-3-one a) acute toxicity

ATE - Oral: 125 mg/kg bw

ATE - Dermal: 311 mg/kg bw LD50 Oral Rat = 500.00 mg/kgLC50 Inhalation Rat = 0.78 mg/l 4h LD50 Skin Rat = 311.00000 mg/kg

b) skin corrosion/irritation Skin Irritant Rabbit Positive

c) serious eye damage/irritation Eye Irritant Rabbit Yes

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Positive

2-methylisothiazol-3(2H)- a) acute toxicity

one

LC50 Inhalation of aerosol Rat = 0.10000 mg/l 4h

LD50 Oral Rat = 120.00000 mg/kgLD50 Skin Rat = 242.00000 mg/kg 24h

b) skin corrosion/irritation Skin Corrosive Rabbit Positive 4h

c) serious eye

damage/irritation

Eye Corrosive Rabbit Positive

d) respiratory or skin

sensitisation

Skin Sensitization Guineapig Positive

f) carcinogenicity Genotoxicity Rat Negative Oral route

**NOAEL** 

Carcinogenicity Oral Rat Negative

Reproductive Toxicity Oral Rat = 200.00000 Ppm g) reproductive toxicity

#### 11.2 Information on other hazards

### **Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >= 0.1%

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

# List of Eco-Toxicological properties of the product

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# List of Eco-Toxicological properties of the components

Component	•	Ident. Numb.	Ecotox Data	
Calcium dihydroxide		CAS: 1305-62-0 - EINECS: 215- 137-3	a) Aquatic acute toxicity:	LC50 Fish rainbow trout = 50.60000 mg/L 96h
			a) Aquatic acute toxicity: 48h	EC50 Daphnia Daphnia magna = 49.10000 mg/L
			b) Aquatic chronic toxicity 48h - 14days	: NOEC Crangon septemspinosa = 32.00000 mg/L
				EC50 Algae Pseudokirchneriella subcapitata = CD Guideline 201 (Alga, Growth Inhibition Test)
				EC50 Sludge activated sludge = 300.40000 mg/L (Activated Sludge, Respiration Inhibition Test
				OEC Worm Eisenia fetida = 2000.00000 207 (Earthworm, Acute Toxicity Tests)
				C10 soil microorganisms = 4000.00000 I, 1-1 (1990) under consideration of OECD 216 000).
octhilinone (ISO); 2-octy isothiazol-3-one	:	CAS: 26530-20- 1 - EINECS: 247-761-7 - INDEX: 613- 112-00-5	a) Aquatic acute toxicity : ECHA	LC50 Fish freshwater fish = 0.12200 mg/L dossier
			b) Aquatic chronic toxicity	: EC10 Fish = 0.02200 mg/L dossier ECHA
			a) Aquatic acute toxicity : dossier ECHA	EC50 freshwater invertebrates = 0.18100 mg/L
			b) Aquatic chronic toxicity dossier ECHA	: EC10 freshwater invertebrates = 0.03500 mg/L
			LC50 Algae freshwater alg	ae = 0.15000 mg/L
2-methylisothiazol-3(2H)	·	CAS: 2682-20-4 - EINECS: 220- 239-6 - INDEX: 613-326-00-9	, ,	LC50 Fish Oncorhynchus mykiss = 4.77000 mg/L (Fish, Acute Toxicity Test)
			b) Aquatic chronic toxicity Dossier ECHA	: NOEC Fish Oncorhynchus mykiss = 4.93000 mg/L
				LC50 Daphnia Daphnia magna = 0.93400 mg/L 48h hnia sp. Acute Immobilisation Test)
				: EC10 Daphnia Daphnia magna = 0.04400 mg/L hnia magna Reproduction Test) - Duration 21d
			a) Aquatic acute toxicity : mg/L 72h Dossier ECHA	EC50 Algae Selenastrum capricornutum = 0.10300
				EC50 Sludge activated sludge of a predominantly 000 mg/L 3h ,,OECD Guideline 209 (Activated tion Test
				: EC50 freshwater sediment = 50.00000 mg/kg Guideline (now OECD Guideline 225) - 28days
2. Persistence and degrada	bility			
ponent		ce/Degradabili	Test	Notes
linone (ISO); 2-octyl-2H- iazol-3-one	<b>ty:</b> Non-read biodegrad			
ethylisothiazol-3(2H)-one	Non-read	ily	CO2 production	OECD Guideline 301 B

# 12.3. Bioaccumulative potential

biodegradable

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(Ready Biodegradability: CO2 Evolution Test)

Component	Bioaccumulation	Test	Value	Notes
octhilinone (ISO); 2-octyl-2H-isothiazol-3-one	Bioaccumulative	BCF - Bioconcentrantion factor	19.210	L/kg ww
2-methylisothiazol-3(2H)-one	Bioaccumulative	BCF - Bioconcentrantion factor	5.750	carcass
	Bioaccumulative	BCF - Bioconcentrantion factor	48.100	viscera

#### 12.4. Mobility in soil

NΑ

# 12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

#### 12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

#### 12.7 Other adverse effects

N.A.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

#### Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

HP 4: Irritant — skin irritation and eye damage

# **SECTION 14: Transport information**

#### 14.1. UN number or ID number

N/A

#### 14.2. UN proper shipping name

ADR-Shipping Name: N/A IATA-Technical name: N/A IMDG-Technical name: N/A

# 14.3. Transport hazard class(es)

ADR-Class: N/A
IATA-Class: N/A
IMDG-Class: N/A

# 14.4. Packing group

ADR-Packing Group: N/A IATA-Packing group: N/A IMDG-Packing group: N/A

# 14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

# 14.6. Special precautions for user

Road and Rail ( ADR-RID ):

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A  $\,$ 

ADR Limited Quantities: N/A ADR Excepted Quantities: N/A

Air ( IATA ):

IATA-Passenger Aircraft: N/A IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

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Sea (IMDG):

IMDG-Stowage Code: N/A
IMDG-Stowage Note: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisioning: N/A

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

N.A

#### **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 70

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

#### Regulation (EU) 649/2012 (PIC regulation):

No Substance Listed

German Water Hazard Class.

Class 1: slightly hazardous for water.

SVHC Substances:

No data available

# Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 0.77 %

Volatile Organic compounds - VOCs = 12.36 g/L

# 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

# **SECTION 16: Other information**

Code	Description	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation.	
Code	Hazard class and hazard category	Description
3.2/2	Skin Irrit. 2	Skin irritation, Category 2

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3.3/1 Eye Dam. 1 Serious eye damage, Category 1

3.8/3 STOT SE 3 Specific target organ toxicity — single exposure, Category 3

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures) BCF: Biological Concentration Factor

BEI: Biological Exposure Index BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center
CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand COV: Volatile Organic Compound CSA: Chemical Safety Assessment CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive DSD: Dangerous Substances Directive EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

 ${\sf GefStoffVO: Ordinance\ on\ Hazardous\ Substances,\ Germany}.$ 

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods. INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep Away From Heat KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

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PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

# Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

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# Exposure Scenario, 24/06/2021

Substance identity	
	Calcium dihydroxide
CAS No.	1305-62-0
EINECS No.	215-137-3
Registration number	01-2119475151-45

# Table of contents

1. **ES 1** Widespread use by professional workers; Various products (PC9a, PC9b, PC15)

# 1. ES 1 Widespread use by professional workers; Various products (PC9a, PC9b, PC15)

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Exposure Scenario name	Professional application of coatings and inks - Use in rigid foams, coatings, adhesives and sealants		
Date - Version	24/06/2021 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
<b>Product Categories</b>	Coatings and paints, thinners, paint removers (PC9a) - Fillers, putties, plasters, modelling cla (PC9b) - Non-metal surface treatment products (PC15)		

# **Environment Contributing Scenario**

CS1	ERC8c - ERC8f
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Hand application - finger paints, pastels, adhesives - Rolling, Brushing	PROC10
CS4 Mixing operations - Manual	PROC19

# 1.2 Conditions of use affecting exposure

# 1.2. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

Environmental release	Widespread use leading to inclusion into/onto article (indoor) - Widespread use leading to
categories	inclusion into/onto article (outdoor) (ERC8c, ERC8f)

# **Product (article) characteristics**

# **Physical form of product:**

Solid, medium dustiness

# Vapour pressure:

< 1E-05 Pa

# 1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

<b>Process Categories</b>	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
	(PROC8a)

# **Product (article) characteristics**

## Physical form of product:

Solid, medium dustiness

# Amount used, frequency and duration of use/exposure

# **Duration:**

Exposure duration <= 480 min

# Technical and organisational conditions and measures

# **Technical and organisational measures**

Ensure operatives are trained to minimise exposures.  Avoid direct eye contact with product, also via contamination on hands.  Do not ingest.  Local exhaust ventilation	Inhalation - minimum efficiency of: 72 %
--	--

Conditions and measures related to personal protection, hygiene and health evaluation

#### **Personal protection**

Wear suitable gloves tested to EN374.

Use suitable eye protection.

Wear suitable face shield.

# Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

#### **Body parts exposed:**

Assumes that potential dermal contact is limited to upper part of the body.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

#### **Additional Good Practice Advice:**

Ensure control measures are regularly inspected and maintained. Open doors and windows. Prevent leaks and prevent soil / water pollution caused by leaks.

# 1.2. CS3: Worker Contributing Scenario: Hand application - finger paints, pastels, adhesives - Rolling, Brushing (PROC10)

**Process Categories** 

Roller application or brushing (PROC10)

# **Product (article) characteristics**

### Physical form of product:

Solid, medium dustiness

Amount used, frequency and duration of use/exposure

#### **Duration:**

Exposure duration <= 480 min

Technical and organisational conditions and measures

#### **Technical and organisational measures**

Ensure operatives are trained to minimise exposures.

Avoid direct eye contact with product, also via contamination on hands.

Do not ingest.

Conditions and measures related to personal protection, hygiene and health evaluation

#### **Personal protection**

Wear suitable gloves tested to EN374.

Use suitable eye protection.

Wear suitable face shield.

# Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

**Temperature:** Covers use at ambient temperatures.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

# **Additional Good Practice Advice:**

Ensure control measures are regularly inspected and maintained. Prevent leaks and prevent soil / water pollution caused by leaks.

# 1.2. CS4: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

**Process Categories** 

Manual activities involving hand contact (PROC19)

#### **Product (article) characteristics**

#### Physical form of product:

Solid, medium dustiness

Amount used, frequency and duration of use/exposure

#### **Duration:**

Exposure duration <= 240 min

Technical and organisational conditions and measures

#### **Technical and organisational measures**

Ensure operatives are trained to minimise exposures.

Avoid direct eye contact with product, also via contamination on hands.

Do not ingest.

Local exhaust ventilation

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

#### Personal protection

Wear suitable gloves tested to EN374.

Use suitable eye protection.

Wear suitable face shield.

# Other conditions affecting worker exposure

Outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

#### **Body parts exposed:**

Assumes that potential dermal contact is limited to upper part of the body.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

# **Additional Good Practice Advice:**

Ensure control measures are regularly inspected and maintained. Open doors and windows. Prevent leaks and prevent soil / water pollution caused by leaks.

# 1.3 Exposure estimation and reference to its source

# 1.3. CS1: Environment Contributing Scenario (ERC8c, ERC8f)

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
soil	N/A	N/A	= 0.65

## 1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m <sup>3</sup>	MEASE	N/A

# 1.3. CS3: Worker Contributing Scenario: Hand application - finger paints, pastels, adhesives - Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m <sup>3</sup>	MEASE	N/A

# Additional information on exposure estimation:

If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to EN374.

# 1.3. CS4: Worker Contributing Scenario: Mixing operations - Manual (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m <sup>3</sup>	MEASE	N/A

# 1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

#### Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least

equivalent levels.