

Safety Data Sheet

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

KLIMA FIX BIANCO

Date of first edition: 10/4/2021 Safety Data Sheet dated 23/05/2025

version 5

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

1.1. Product identifier

Mixture identification:

Trade name: KLIMA FIX BIANCO Trade code: S100K0458 42

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

Recommended use: Mortar for levelling and finishing layers Uses advised against: All uses other than recommended ones 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

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre,

Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166 Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

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)

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1B May cause an allergic skin reaction.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

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

Hazard pictograms and Signal Word



Danger

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe dust.

P280 Wear protective gloves and eye protection.

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P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

8 to do. Continue rinsing.

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

Contains

Portland Cement (Cr VI < 0,0002%)

Calcium dihydroxide

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

None.

2.3. Other hazards

When mixtures containing cement react with water, for instance when making concrete or mortar, or when the cement becomes wet, a strong alkaline solution is produced (high pH caused by the formation of calcium, sodium and potassium hydroxides).

Cement and mixtures containing cement may irritate the eyes, the mucous system, the throat and the respiratory system and cause coughing. Frequent inhalation of cement dust or mixtures containing cement over a long period of time increases the risk of developing lung diseases.

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: KLIMA FIX BIANCO

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10-<20 %	Portland Cement (Cr VI < 0,0002%)	CAS:65997-15-1 EC:266-043-4	Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1B, H317; STOT SE 3, H335	
≥1-<3 %	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
<0.05 %	Quartz	CAS:14808-60-7 EC:238-878-4	STOT RE 1, H372	

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.

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

Erythema

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:

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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

For non emergency personnel:

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

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, inhalation 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.

Advice on general occupational hygiene:

7.2. Conditions for safe storage, including any incompatibilities

The product must be stored in waterproof, dry, clean conditions and protected from contamination. Do not use aluminum containers due to incompatibility of the materials.

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

OEL Type Country Occupational Exposure Limit

Limestone NATIONAL BULGARIA Long Term: 10 mg/m3

CAS: 1317-65-3 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL ESTONIA Long Term: 10 mg/m3

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

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NATIONAL ESTONIA Long Term: 5 mg/m3

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL GREECE Long Term: 10 mg/m3

εισπν.

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL GREECE Long Term: 5 mg/m3

ачапу.

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL SPAIN Long Term: 10 mg/m3

(1) inhalable aerosol Source: LEP 2022

NATIONAL HUNGARY Long Term: 10 mg/m3

Ν

Source: 5/2020. (II. 6.) ITM rendelet

WEL-EH40 UNITED Long Term: 10 mg/m3

KINGDOM OF Inhalable fraction

GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

BRITAIN AND NORTHERN IRELAND

WEL-EH40 UNITED Long Term: 4 mg/m3

KINGDOM OF Respirable fraction

GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

BRITAIN AND NORTHERN IRELAND

NATIONAL BELGIUM Long Term: 10 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL IRELAND Long Term: 10 mg/m3

Source: 2021 Code of Practice

NATIONAL IRELAND Long Term: 4 mg/m3

Source: 2021 Code of Practice

NATIONAL SWITZERLAN Long Term: 3 mg/m3

Quartz

CAS: 14808-60-7

D (1) respirable aerosol

Source: suva.ch/valeurs-limites

ACGIH Long Term: 0.025 mg/m3 (8h)

R, A2 - Pulm fibrosis, lung cancer

NATIONAL HUNGARY Long Term: 0.1 mg/m3

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL IRELAND Long Term: 0.1 mg/m3

Respirable fraction

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 0.1 mg/m3

Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008

Source: D.lgs. 81/2008, Allegato XLIII

NATIONAL SPAIN Long Term: 0.3 mg/m3

Respirable fraction Source: LEP 2022

NATIONAL BELGIUM Long Term: 0.1 mg/m3

С

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL DENMARK Long Term: 0.3 mg/m3

alveolijae, liite 3

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 0.1 mg/m3

FK

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 0.1 mg/m3

1, C

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

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NATIONAL FINLAND Long Term: 0.05 mg/m3

alveolijae, liite 3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 0.1 mg/m3

La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.

Source: INRS outil65, article R. 4412-149 du Code du travail

NATIONAL LITHUANIA Long Term: 0.1 mg/m3

Žiūrėti 1 priedo 3 punktą.

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL NETHERLAND Long Term: 0.075 mg/m3

(2

Source: Arbeidsomstandighedenregeling - Lijst B1

NATIONAL NORWAY Long Term: 0.3 mg/m3

K 7

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Long Term: 0.05 mg/m3

K G 7 21

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 0.1 mg/m3

6)

Source: Dz.U. 2018 poz. 1286

NATIONAL SWEDEN Long Term: 0.1 mg/m3

C, M, 3

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 0.15 mg/m3

TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH

OSHA

Source: suva.ch/valeurs-limites

Portland Cement (Cr VI <

0,0002%) CAS: 65997-15-1 ACGIH

Long Term: 1 mg/m3 (8h)

E,R, A4 - Pulm func, resp symptoms, asthma

NATIONAL BELGIUM Long Term: 1 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 10 mg/m3

U

Source: NN 1/2021

NATIONAL CROATIA Long Term: 4 mg/m3

R

Source: NN 1/2021

NATIONAL IRELAND Long Term: 1 mg/m3

R

Source: 2021 Code of Practice

NATIONAL SPAIN Long Term: 4 mg/m3

e, d

Source: LEP 2022

NATIONAL AUSTRIA Long Term: 5 mg/m3

MAK, E

Source: BGBl. II Nr. 156/2021

NATIONAL FINLAND Long Term: 5 mg/m3

hengittyvä pöly

Source: HTP-ARVOT 2020

NATIONAL FINLAND Long Term: 1 mg/m3

alveolijae

Source: HTP-ARVOT 2020

NATIONAL HUNGARY Long Term: 10 mg/m3

N

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL LATVIA Long Term: 6 mg/m3

Source: KN325P1

NATIONAL POLAND Long Term: 6 mg/m3

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Source: Dz.U. 2018 poz. 1286

NATIONAL POLAND Long Term: 2 mg/m3

6), 7)

Source: Dz.U. 2018 poz. 1286

SUVA SWITZERLAN Long Term: 5 mg/m3

TWA mg/m3: (i), S, Poumons Asthme / Lunge Asthma

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 10 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

WEL-EH40 UNITED Long Term: 4 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

Calcium dihydroxide CAS: 1305-62-0

ACGIH Long Term: 5 mg/m3 (8h)

Eye, URT and skin irr

NATIONAL BELGIUM Long Term: 1 mg/m3; Short Term: 4 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL CROATIA Long Term: 1 mg/m3; Short Term: 4 mg/m3

R (14)

Source: 2017/164/EU

NATIONAL CYPRUS Long Term: 1 mg/m3; Short Term: 4 mg/m3

9 (2019)

Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί

του 2001 έως 2021

NATIONAL GERMANY Long Term: 1 mg/m3

Y, EU, DFG, E, 2 (I) Source: TRGS 900

NATIONAL GREECE Long Term: 1 mg/m3; Short Term: 4 mg/m3

Source: Π.Δ. 82/2018 (ΦΕΚ 152/A` 21.8.2018)

NATIONAL IRELAND Long Term: 1 mg/m3; Short Term: 4 mg/m3

IOELV, R

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 1 mg/m3; Short Term: 4 mg/m3

Frazione respirabile

Source: D.lgs. 81/2008, Allegato XXXVIII

NATIONAL LATVIA Long Term: 1 mg/m3; Short Term: 4 mg/m3

Source: KN325P1

LUXEMBOUR Long Term: 5 mg/m3 NATIONAL

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL LUXEMBOUR Long Term: 1 mg/m3; Short Term: 4 mg/m3 9, 14

G

Source: Mémorial A n.226 du 22 mars 2021

NATIONAL MALTA Long Term: 1 mg/m3; Short Term: 4 mg/m3

10

Source: S.L.424.24

NATIONAL PORTUGAL Long Term: 1 mg/m3

(9)

Source: Decreto-Lei n.º 1/2021

NATIONAL ROMANIA Long Term: 1 mg/m3; Short Term: 4 mg/m3

Fracțiune respirabilă, Dir. 2017/164

Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATIONAL SLOVENIA Long Term: 1 mg/m3; Short Term: 4 mg/m3

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Y, EU4, (A)

Source: UL št. 72, 11. 5. 2021

NATIONAL SPAIN Long Term: 1 mg/m3; Short Term: 4 mg/m3

VLI, d

Source: LEP 2022

NATIONAL AUSTRIA Long Term: 1 mg/m3; Short Term: Ceiling - 4 mg/m3

5(Mow), 8x, MAK, E

Source: GKV, BGBl. II Nr. 156/2021

NATIONAL BULGARIA Long Term: 1 mg/m3; Short Term: 4 mg/m3

5

Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATIONAL CZECHIA Long Term: 1 mg/m3; Short Term: Ceiling - 4 mg/m3

l, R

Source: Nařízení vlády č. 361-2007 Sb

NATIONAL DENMARK Long Term: 5 mg/m3

Е

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 1 mg/m3

Е

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 1 mg/m3; Short Term: 4 mg/m3

1

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FINLAND Long Term: 1 mg/m3; Short Term: 4 mg/m3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 1 mg/m3; Short Term: 4 mg/m3

Source: INRS outil65, article R. 4412-149 du Code du travail

NATIONAL HUNGARY Long Term: 1 mg/m3; Short Term: 4 mg/m3

resp, EU4, N

Source: 5/2020. (II. 6.) ITM rendelet

NATIONAL LITHUANIA Long Term: 5 mg/m3

O

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL NETHERLAND Long Term: 1 mg/m3; Short Term: 4 mg/m3

5

(2)
Source: Arbeidsomstandiahedenregeling - Liist A

NATIONAL NORWAY Long Term: 1 mg/m3

Е

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Short Term: 4 mg/m3

S

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 2 mg/m3; Short Term: 6 mg/m3

4)

Source: Dz.U. 2018 poz. 1286

NATIONAL POLAND Long Term: 1 mg/m3; Short Term: 4 mg/m3

6)

Source: Dz.U. 2018 poz. 1286

NATIONAL SLOVAKIA Long Term: 1 mg/m3; Short Term: 4 mg/m3

1)

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

NATIONAL SWEDEN Long Term: 1 mg/m3; Short Term: 4 mg/m3

3

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 1 mg/m3; Short Term: 4 mg/m3

TWA mg/m3: (i), SSC, VRS / OAW, NIOSH

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 5 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT

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ΕU Long Term: 1 mg/m3 (8h); Short Term: 4 mg/m3

Respirable fraction

Quartz

CAS: 14808-60-7

ΕU Long Term: 0.1 mg/m3

Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung

cancer. Directive 2017/2398

ACGIH Long Term: 0.025 mg/m3 (8h)

R, A2 - Pulm fibrosis, lung cancer

NATIONAL HUNGARY Long Term: 0.1 mg/m3 (8h)

Respirable aerosol

Source: 5/2020. (II. 6.) ITM rendelet

Long Term: 0.1 mg/m3 (8h) NATIONAL IRELAND

Respirable fraction

Source: 2021 Code of Practice

NATIONAL ITALY Long Term: 0.1 mg/m3 (8h)

Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008

Source: D.lgs. 81/2008, Allegato XLIII

Long Term: 0.05 mg/m3 (8h) NATIONAL SPAIN

Respirable fraction Source: LEP 2022

NATIONAL CROATIA Long Term: 0.1 mg/m3

Source: NN 1/2021

NATIONAL AUSTRIA Long Term: 0.05 mg/m3

MAK, III C, A

Source: BGBl. II Nr. 156/2021

NATIONAL BELGIUM Long Term: 0.1 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL DENMARK Long Term: 0.3 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 0.1 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL ESTONIA Long Term: 0.1 mg/m3

1, C

Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATIONAL FINLAND Long Term: 0.05 mg/m3

alveolijae, liite 3

Source: HTP-ARVOT 2020

NATIONAL FRANCE Long Term: 0.1 mg/m3

La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.

Source: INRS outil65, article R. 4412-149 du Code du travail

NATIONAL LITHUANIA Long Term: 0.1 mg/m3

Žiūrėti 1 priedo 3 punktą.

Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATIONAL NETHERLAND Long Term: 0.075 mg/m3 S (2)

Source: Arbeidsomstandighedenregeling - Lijst B1

NATIONAL NORWAY Long Term: 0.3 mg/m3

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Long Term: 0.05 mg/m3

K G 7 21

Source: FOR-2021-06-28-2248

NATIONAL POLAND Long Term: 0.1 mg/m3

6)

Source: Dz.U. 2018 poz. 1286

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NATIONAL SWEDEN Long Term: 0.1 mg/m3

C, M, 3

Source: AFS 2021:3

SUVA SWITZERLAN Long Term: 0.15 mg/m3

D TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH

OSHA

Source: suva.ch/valeurs-limites

Kaolin

CAS: 1332-58-7

ACGIH Long Term: 2 mg/m3 (8h)

E,R, A4 - Pneumoconiosis

NATIONAL BELGIUM Long Term: 2 mg/m3

Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATIONAL DENMARK Long Term: 2 mg/m3

Source: BEK nr 2203 af 29/11/2021

NATIONAL FINLAND Long Term: 2 mg/m3

alveolijae

Source: HTP-ARVOT 2020

NATIONAL IRELAND Long Term: 2 mg/m3

Source: 2021 Code of Practice

NATIONAL POLAND Long Term: 10 mg/m3

4), 7)

Source: Dz.U. 2018 poz. 1286

SUVA SWITZERLAN Long Term: 3 mg/m3

D TWA mg/m3: (a), Fibpulm / Lungenfibrose

Source: suva.ch/valeurs-limites

WEL-EH40 UNITED Long Term: 2 mg/m3

KINGDOM OF Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

GREAT BRITAIN AND NORTHERN IRELAND

NATIONAL CROATIA Long Term: 2 mg/m3

R

Source: NN 1/2021

Predicted No Effect Concentration (PNEC) values

Calcium dihydroxide CAS: 1305-62-0

Exposure Route: Fresh Water; PNEC Limit: 490 μ g/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 490 µg/l

Exposure Route: Marine water; PNEC Limit: 320 µg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3 mg/l

Exposure Route: Soil; PNEC Limit: 1080 mg/kg

Derived No Effect Level (DNEL) values

Calcium dihydroxide CAS: 1305-62-0

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Professional: 1 mg/m³; Consumer: 1 mg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Professional: 4 mg/m³; Consumer: 4 mg/m³

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.(EN166)

Protection for skin:

Chemical protection clothing. Safety shoes.

Protection for hands:

Protection for hands:

Suitable materials for safety gloves; EN 374:

Nitrile rubber - NBR: thickness ≥0,35mm; breakthrough time ≥480min.

Respiratory protection:

Particle filter P2.

Thermal Hazards:

Not expected if used as intended

Environmental exposure controls:

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid Colour: Light grey Odour: Odourless Odour threshold: N.A.

pH: >=12.00<=12.50 Notes: 1% (OECD 122)

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

Boiling point or initial boiling point and boiling range: N.A.

Flash point: Not Applicable

Lower and upper explosion limit: N.A.

Relative vapour density: N.A. Vapour pressure: N.A.

Density and/or relative density: 1.46 g/cm3 (EN 1097-03)

Solubility in water: Slightly soluble

Solubility in oil: N.A.

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

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

Flammability: N.A.

Volatile Organic compounds - VOCs = 0 %; 0 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

The product is stable as long as it is properly stored (see Section 7).

Wet product is alkaline and incompatible with acids, with ammonium salts, with aluminium or other base metals. When in contact with hydrofluoric acid, mixtures containing cement dissolve to produce corrosive silicon tetrafluoride gas. Mixtures containing cement react with water to form silicates and calcium hydroxide. Silicates in cement react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride.

Intact packaging and compliance with the appropriate storage conditions as indicated in Subsection 7.2 (adequate tightly closed and sealed containers, dry and cool place, no ventilation) are the essential conditions.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Acids, ammonium salts, aluminium or other base metals. Uncontrolled use of aluminium dust in wet cement-containing products is to be avoided because it causes the production of hydrogen.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

a) acute toxicity

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

Toxicological Information of the Preparation

Based on available data, the classification criteria are not met

b) skin corrosion/irritation The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation The product is classified: Eye Dam. 1(H318)
d) respiratory or skin sensitisation The product is classified: Skin Sens. 1B(H317)

Not classified

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

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f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

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 mg/kg

LC50 Inhalation Dust Rat > 6.04 mg/l 4h

LD50 Skin Rabbit > 2500 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

NOAEL

Quartz

a) acute toxicity

LD50 Oral > 2000 mg/kg

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

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component Ident. Numb. Ecotox Data

Calcium dihydroxide CAS: 1305-62-0 a) Aquatic acute toxicity: LC50 Fish rainbow trout = 50.6 mg/L 96h

- EINECS: 215-

137-3

- a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 49.1 mg/L 48h
- b) Aquatic chronic toxicity : NOEC Crangon septemspinosa = 32 mg/L 48h 14 days
- a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 184.57 mg/L 72h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)
- a) Aquatic acute toxicity : EC50 Sludge activated sludge = 300.4 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test
- d) Terrestrial toxicity: NOEC Worm Eisenia fetida = 2000 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests)
- d) Terrestrial toxicity: EC10 soil microorganisms = 4000 mg/kg,,Guideline: BBA VI, 1-1 (1990) under consideration of OECD 216 (2000) and OECD 217 (2000).

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

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12.4. Mobility in soil

NΔ

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

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

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

The product disposed of as such, pursuant to Regulation (EU) 1357/2014, must be classified as hazardous waste

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

ADR-Shipping Name: N/A IATA-Shipping Name: N/A IMDG-Shipping 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 Provisions: N/A

Sea (IMDG):

IMDG-Stowage and handling: N/A $\,$

IMDG-Segregation: N/A
IMDG-Subsidiary hazards: N/A
IMDG-Special Provisions: N/A

14.7. Maritime transport in bulk according to IMO instruments

N.A.

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SECTION 15: Regulatory information

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

EN 196-10 - "Methods of Testing Cement - Part 10: Determination of the water-soluble chromium (VI) content of cement"

According to Annex XVII, Point 47, under Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as amended by Regulation No. 552/2009, cement and mixtures containing cement shall not be placed on the market or used if they contain, after mixing with water, more than 0.0002% (2 ppm) of soluble chromium (VI) of the total dry weight of the cement. Considering that once mixed with water, white cement does not contain more than 0.0002% (2 ppm) of water-soluble Cr (VI) on the total dry weight, the same mixture can be marketed without the addition of reducing agents. Cement is a mixture and, as such, is not subject to REACH registration, which is mandatory for substances. Cement clinker is a substance, but it is exempt from registration pursuant to article 2.7 (b) and Annex V.10 of REACH.

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. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 CLP)

Regulation (EU) n. 2023/707

Regulation (EU) n. 2023/1434 (ATP 19 CLP)

Regulation (EU) n. 2023/1435 (ATP 20 CLP)

Regulation (EU) n. 2024/197 (ATP 21 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: None.

Restrictions related to the substances contained: 75

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

None

Explosives precursors - Regulation 2019/1148

No substances listed

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

2: Hazard to waters

German Lagerklasse according to TRGS 510:

LGK 11

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

Calcium dihydroxide

SECTION 16: Other information

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H335	May cause respiratory irritation.		
H372	Causes damage to organs through prolonged or repeated exposure.		
Code	Hazard class and hazard category Description		
3.2/2	Skin Irrit. 2	Skin irritation, Category 2	
3.3/1	Eye Dam. 1	Serious eye damage, Category 1	
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B	
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3	
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

(EC) Nr. 1272/2008	classification procedure	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	On basis of test data (pH)	
Skin Sens. 1B. H317	Calculation method	

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.

Description

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Code H315

H317

H318

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

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

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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

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).

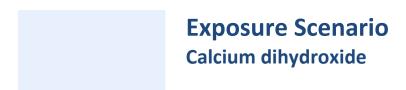
vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 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)

1.1	TIT	. – .	·	ΓΙΟΝ
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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)
Product Categories	Coatings and paints, thinners, paint removers (PC9a) - Fillers, putties, plasters, modelling clay (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)

Process Categories	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 ³	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 ³	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/m³	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.