

Safety Data Sheet

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

GEOCALCE TENACE

Date of first edition: 10/13/2020 Safety Data Sheet dated 05/11/2024

version 4

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

1.1. Product identifier

Mixture identification:

Trade name: GEOCALCE TENACE Trade code: S100K0353 .021

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

Recommended use: Mortar for strengthening/repair

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 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)

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

P280 Wear protective gloves and eye protection. 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

to do. Continue rinsing.

Date 04/03/2025 Production Name GEOCALCE TENACE Page n. 1 of 16

Contains

Natural Hydraulic Lime

Portland Cement (Cr VI < 0,0002%)

calcium sulfoaluminate clinker

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: GEOCALCE TENACE

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10-<20 %	Natural Hydraulic Lime	CAS:85117-09-5 EC:285-561-1	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	
≥5-<10 %	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	
≥0.5-<1 %	calcium sulfoaluminate clinker	EC:934-133-9	Skin Sens. 1,1A,1B, H317; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Dam. 1, H318	Exempted
≥0.1-<0.3 %	Calcium oxide	CAS:1305-78-8 EC:215-138-9	Skin Irrit. 2, H315; Eye Dam. 1, H318; STOT SE 3, H335	01-2119475325-36
<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).

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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

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

Store cool and dry. Avoid contact with acid

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

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Calcium carbonate CAS: 471-34-1

Quartz

CAS: 14808-60-7

NATIONAL AUSTRALIA Long Term: 10 mg/m3

This value is for inhalable dust containing no asbestos and <1 % crystalline silica.

NATIONAL HUNGARY Long Term: 10 mg/m3

inhalable aerosol

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

NATIONAL IRELAND Long Term: 10 mg/m3

Inhalable fraction

Source: 2021 Code of Practice

NATIONAL IRELAND Long Term: 4 mg/m3

Respirable fraction

Source: 2021 Code of Practice

NATIONAL UNITED Long Term: 10 mg/m3

KINGDOM OF inhalable aerosol

GREAT Source: EH40/2005 Workplace exposure limits

BRITAIN AND NORTHERN IRELAND

NATIONAL UNITED Long Term: 4 mg/m3

KINGDOM OF respirable aerosol

GREAT Source: EH40/2005 Workplace exposure limits

BRITAIN AND NORTHERN IRELAND

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 FRANCE Long Term: 10 mg/m3

Source: INRS outil65

NATIONAL LATVIA Long Term: 6 mg/m3

Source: KN325P1

NATIONAL POLAND Long Term: 10 mg/m3

4)

Source: Dz.U. 2018 poz. 1286

SUVA SWITZERLAN Long Term: 3 mg/m3

D TWA mg/m3: (a), Formel / Formal, NIOSH

Source: suva.ch/valeurs-limites

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

R, A2 - Pulm fibrosis, lung cancer

NATIONAL AUSTRALIA Long Term: 0.05 mg/m3

Respirable fraction

NATIONAL HUNGARY Long Term: 0.1 mg/m3

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

NATIONAL INDIA Long Term: 10 mg/m3 (8h)
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 XXXVIII

NATIONAL SPAIN Long Term: 0.05 mg/m3

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

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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

Source: BEK nr 2203 af 29/11/2021

NATIONAL DENMARK Long Term: 0.1 mg/m3

ΕK

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

(2)

S

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 AUSTRALIA Long Term: 10 mg/m3

This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

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, ď

Source: LEP 2022

NATIONAL AUSTRIA Long Term: 5 mg/m3

MAK, E

Date 04/03/2025 Production Name GEOCALCE TENACE Page n. 5 of 16

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

Ν

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

NATIONAL LATVIA Long Term: 6 mg/m3

Source: KN325P1

NATIONAL POLAND Long Term: 6 mg/m3

4)

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

D 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 oxide CAS: 1305-78-8

NATIONAL AUSTRALIA Long Term: 2 mg/m3 (8h)

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

URT irr

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

Respirable fraction

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

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

9)

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

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

Source: KN325P1

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

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; Short Term: 4 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

Y, EU4, (A)

Source: UL št. 72, 11. 5. 2021

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

d, VLI

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

I, R

Source: Nařízení vlády č. 361-2007 Sb

NATIONAL DENMARK Long Term: 2 mg/m3

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: 2 mg/m3; Short Term: 5 mg/m3

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

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

Source: Arbeidsomstandighedenregeling - Lijst A

NATIONAL NORWAY Long Term: 1 mg/m3

E

Source: FOR-2021-06-28-2248

NATIONAL NORWAY Short Term: 4 mg/m3

5

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

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Source: Dz.U. 2018 poz. 1286

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

Source: 355 NARIADENIE VLÁDY z 10. mája 2006

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

Source: AFS 2021:3

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

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

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**

WEL-EH40 UNITED Long Term: 1 mg/m3; Short Term: 4 mg/m3

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

GREAT BRITAIN AND NORTHERN IRELAND

ΕU

Quartz

CAS: 14808-60-7

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 AUSTRALIA Long Term: 0.05 mg/m3 (8h)

Respirable fraction

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

Respirable aerosol

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

NATIONAL INDIA Long Term: 10 mg/m3

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

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 XXXVIII

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

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

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

NATIONAL FINLAND Long Term: 0.05 mg/m3

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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

Starch NATIONAL AUSTRALIA Long Term: 10 mg/m3 (8h) CAS: 9005-25-8 This value is for inhalable du

This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

ACGIH Long Term: 10 mg/m3 (8h)

A4 - Dermatitis

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 SPAIN Long Term: 10 mg/m3

Source: LEP 2022

NATIONAL GREECE Long Term: 10 mg/m3

εισπν

Source: ΦΕΚ 94/A` 13.5.1999

NATIONAL GREECE Long Term: 5 mg/m3

ачапч

Source: ΦΕΚ 94/A` 13.5.1999

SUVA SWITZERLAN Long Term: 3 mg/m3

D TWA mg/m3: (a)

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

Predicted No Effect Concentration (PNEC) values

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Natural Hydraulic Lime

CAS: 85117-09-5

Exposure Route: Fresh Water; PNEC Limit: 574 µg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 574 µg/l

Exposure Route: Marine water; PNEC Limit: 374 µg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 374 μ g/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3.511 mg/l

Exposure Route: Soil; PNEC Limit: 1262 mg/kg
Exposure Route: Fresh Water; PNEC Limit: 370 µg/l

Calcium oxide CAS: 1305-78-8

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 370 µg/l

Exposure Route: Marine water; PNEC Limit: 240 µg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 240 μ g/l Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 2.27 mg/l

Exposure Route: Soil; PNEC Limit: 817 mg/kg

Derived No Effect Level (DNEL) values

Natural Hydraulic Lime CAS: 85117-09-5

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

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

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

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

Calcium oxide CAS: 1305-78-8

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: 1 mg/m³; Consumer: 1 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 ≥ 0.35 mm; breakthrough time ≥ 480 min.

Respiratory protection:

Particle filter P2.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid Colour: Brown Odour: Odourless Odour threshold: N.A.

pH: = 11.00

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: 1.86 g/cm3 (EN 1097-03)

Solubility in water: Soluble Solubility in oil: N.A.

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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

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

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)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

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:

Natural Hydraulic Lime a) acute toxicity LD50 Oral Rat > 2000 mg/kg

LC50 Inhalation Dust Rat > 6.04 mg/l 4h LD50 Skin Rabbit > 2500 mg/kg 24h

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

c) serious eye damage/irritation

Eye Irritant Rabbit Yes

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	d) respiratory or skin sensitisation	Skin Sensitization Negative	Mouse
	g) reproductive toxicity	No Observed Adverse Effect Level Oral >= 400 mg/kg	Mouse
Calcium oxide	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg	
		LC50 Inhalation Dust Rat > 6.04 mg/l 4h	
		LD50 Skin Rabbit > 2500 mg/kg 24h	
	b) skin corrosion/irritation	n Skin Irritant Rabbit Positive	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	d) respiratory or skin sensitisation	Skin Sensitization Negative	Mouse
	f) carcinogenicity	Carcinogenicity	
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
Natural Hydraulic Lime	CAS: 85117-09- 5 - EINECS: 285-561-1	a) Aquatic acute toxicity: LC50 Fish rainbow trout = 50.6 mg/L 96h ,,OECD Guideline 203 (Fish, Acute Toxicity Test)
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = $49.1 \text{ mg/L} 48\text{h}$ OECD 202
		b) Aquatic chronic toxicity : NOEC Crangon septemspinosa = $32 \text{ mg/L} - 14 \text{days}$
		d) Terrestrial toxicity: NOEC Worm Eisenia fetida = 2000 mg/kg
		e) Plant toxicity: EC10 = 1080 mg/kg
Calcium oxide	CAS: 1305-78-8 - EINECS: 215- 138-9	a) Aquatic acute toxicity: LC50 Fish rainbow trout = 50.6 mg/L 96h OECD 203
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna $<=49.1$ mg/L 48h OECD 202

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 1848.57 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 test

e) Plant toxicity: NOEC = 1080 mg/kg OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days

guideline 207

12.2. Persistence and degradability

12.3. Bioaccumulative potential

04/03/2025 Date Production Name **GEOCALCE TENACE** Page n. 12 of 16 N.A.

12.4. Mobility in soil

N.A.

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

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

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-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 Provisions: N/A

Sea (IMDG):

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

14.7. Maritime transport in bulk according to IMO instruments

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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. 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.

NWG: Not hazardous for water

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:

Natural Hydraulic Lime

Calcium oxide

SECTION 16: Other information

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Causes serious eye damage.	
May cause respiratory irritation.	
Causes damage to organs through prolong	ged or repeated exposure.
Hazard class and hazard category	Description
Skin Irrit. 2	Skin irritation, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Skin Sens. 1,1A,1B	Skin Sensitisation, Category 1,1A,1B
Skin Sens. 1B	Skin Sensitisation, Category 1B
STOT SE 3	Specific target organ toxicity — single exposure, Category 3
STOT RE 1	Specific target organ toxicity $-$ repeated exposure, Category 1
	May cause respiratory irritation. Causes damage to organs through prolong Hazard class and hazard category Skin Irrit. 2 Eye Dam. 1 Skin Sens. 1,1A,1B Skin Sens. 1B STOT SE 3

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure	
Skin Irrit. 2, H315	Calculation method	
Eye Dam. 1, H318	Calculation method	
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.

Code H315

H317

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).

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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

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, 22/06/2021

Substance identity	
	Calcium oxide
CAS No.	1305-78-8
EINECS No.	215-138-9
Registration number	01-2119475325-36

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

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

1.1	TIT	. – .	·	ΓΙΟΝ
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Exposure Scenario name Insulators - Professional application of coatings and inks - Use in rigid foams, coat adhesives and sealants - Waterproofing agent	
Date - Version	22/06/2021 - 1.0
Life Cycle Stage Widespread use by professional workers	
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a)

Environment Contributing Scenario

CS1 Low environmental release	ERC8c - ERC8f
Worker Contributing Scenario	
CS2 Rolling, Brushing - Material transfers	PROC8a - PROC10
CS3 Mixing operations	PROC19

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Low environmental release (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

Amount used, frequency and duration of use (or from service life)

Amounts used:

Application rate = 18000 kg/ha

Technical and organisational conditions and measures

Control measures to prevent releases

Prevent discharge of undissolved substance to or recover from onsite wastewater.

1.2. CS2: Worker Contributing Scenario: Rolling, Brushing - Material transfers (PROC8a, PROC10)

Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities -
	Roller application or brushing (PROC8a, PROC10)

Product (article) characteristics

Physical form of product:

Solid, medium dustiness

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration = 480 h/day

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

Use suitable eye protection.

Wear suitable respiratory protection.

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

1.2. CS3: Worker Contributing Scenario: Mixing operations (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 = 480 h/day

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

Use suitable eye protection.

Wear suitable respiratory protection.

Wear suitable gloves tested to EN374.

Wear suitable face shield.

Other conditions affecting worker exposure

Covers indoor and outdoor use

Professional use

Temperature: Covers use at ambient temperatures.

1.3 Exposure estimation and reference to its source

1.3. CS1: Environment Contributing Scenario: Low environmental release (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: Rolling, Brushing - Material transfers (PROC8a, PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m³	MEASE	N/A

Additional information on exposure estimation:

Dermal exposure is considered to be not relevant.

1.3. CS3: Worker Contributing Scenario: Mixing operations (PROC19)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative	< 1 mg/m³	MEASE	N/A

Additional information on exposure estimation:

Dermal exposure is considered to be not relevant.

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.



Exposure Scenario, 08/06/2021

Substance identity		
	Lime (chemical), hydraulic	
CAS No.	85117-09-5	
EINECS No.	285-561-1	

Table of contents

1. **ES 1** Service life - workers; Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

1. ES 1 Service life - workers; Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

1	1	TIT	ΓIF	SF	CTI	N

Exposure Scenario name	Road and construction applications - Professional use of floor care products - Tackifier
Date - Version	20/05/2021 - 1.0
Life Cycle Stage	Service life - workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Product Categories	Fillers, putties, plasters, modelling clay (PC9b) - Coatings and paints, thinners, paint removers (PC9a) - Adhesives, sealants (PC1) - Non-metal surface treatment products (PC15)
Article Category(ies)	Stone, plaster, cement, glass and ceramic articles: Large surface area articles (AC4a)

Environment Contributing Scenario

CS1 Low environmental release	ERC2
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Worker Contributing Scenario

CS2 Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers

PROC8b - PROC9 - PROC26

1.2 Conditions of use affecting exposure

1.2. CS1: Environment Contributing Scenario: Low environmental release (ERC2)

Environmental release	Formulation into mixture (ERC2)
categories	

Product (article) characteristics

Physical form of product:

Solid, very high dustiness

Vapour pressure:

< 1E-05 Pa

1.2. CS2: Worker Contributing Scenario: Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers (PROC8b, PROC9. PROC26)

Process Categories	Transfer of substance or mixture (charging and discharging) at dedicated facilities - Transfer
	of substance or mixture into small containers (dedicated filling line, including weighing) -
	Handling of solid inorganic substances at ambient temperature (PROC8b, PROC9, PROC26)

Product (article) characteristics

Physical form of product:

Solid, very high dustiness

Amount used, frequency and duration of use/exposure

Duration:

Exposure duration <= 240 min

Frequency:

Use frequency = 8 h/event

Technical and organisational conditions and measures

Technical and organisational measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour). Do not ingest.

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

Personal protection

Wear suitable gloves tested to EN374.

Use eye protection according to EN 166.

Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Indoor use Professional use

Temperature: Covers use at ambient temperatures. 23°C

1.3 Exposure estimation and reference to its source

1.3. CS2: Worker Contributing Scenario: Mixing operations - Surfaces - Transfer from/pouring from containers - Hand application - finger paints, pastels, adhesives - Filling of equipment from drums or containers (PROC8b, PROC9, PROC26)

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

Additional information on exposure estimation:

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

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.