**Safety Data Sheet**

Skladno z Uredbo ES št. 1907/2006 (REACH), Člen 31, Priloga II, kot spremenjeno z Uredbo Komisije (EU) št. 2020/878

**KERACEM ECO**

Date of first edition: 9. 04. 2021

Safety Data Sheet dated 26/06/2026 version 9

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

### 1.1. Product identifier

Mixture identification:

Trade name: KERACEM ECO

Trade code: S100K0035 85

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

Recommended use: Lepila / tesnilne mase za keramiko in naravni kamen

Uses advised against: Uporabe, ki niso priporočene

### 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

112 v primeru zastrupitve v sil/ in case of emergency poisoning

## 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. |
| STOT SE 3 | May cause respiratory irritation. |

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. |
| H335 | May cause respiratory irritation. |

**Precautionary statements**

| | |
|---|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves and eye protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P501 | Dispose of contents/container in accordance with applicable regulations. |

**Contains**

Portlandski cement

Flue Dust, Portland Cement

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

Nobena

**2.3. Other hazards**

Mešanice vsebujejo cement, ob prisotnosti vode, na primer pri pripravi betona ali malt ali kadar se zmočijo, pride do močno alkalne raztopine (visoka pH vrednost zaradi tvorjenja kalcijevega hidroksida, natrija in kalija). Mešanice, ki vsebujejo cement, lahko dražijo oči, sluznico, grlo in dihalni sistem ter povzročajo kašelj. Ponavljajoče in dolgotrajno vdihavanje cementnega prahu ali prahu mešanic z vsebnostjo cementa poveča tveganje za nastanek pljučnih bolezni.

Mešanice z vsebnostjo cementa in njihove zmesi lahko ob dolgotrajnem stiku s kožo povzročijo preobčutljivost (zaradi prisotnosti sledi kromovih soli VI); kjer je potrebno, se prisotnost zmanjša z dodatkom posebnega aditiva, reducenta, ki vrednost v vodi topnega klora VI zniža in uravnava pod mejo 0,0002 % (2 ppm) na skupno suho težo cementa.

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: KERACEM ECO

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

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|---|---|---|---|---|
| ≥70-<90 % | Portlandski cement | CAS:65997-15-1<br>EC:266-043-4 | Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1B, H317; STOT SE 3, H335 | |
| ≥3-<5 % | Flue Dust, Portland Cement | CAS:68475-76-3<br>EC:270-659-9 | Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317; STOT SE 3, H335 | 01-2119486767-17 |
| <0.01 % | Quarz (SIO2) | CAS:14808-60-7<br>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:

In case of inhalation, consult a doctor immediately and show him packing or label.

**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:

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Use localized ventilation system.

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**

Kontrola vodotopnega kroma (VI):

Izdelek vsebuje cemente z dodatkom reducenta kroma VI, čigar učinkovitost pa se s časom zmanjšuje. Izdelki imajo zato na embalaži zaveden datum proizvodnje, pogoje za skladiščenje in tudi ustrezen čas skladiščenja (rok trajanja), v katerem reducent za zmanjševanje vodotopnega kroma VI še obdrži vrednost kroma pod 2 ppm na skupno suho težo cementa (EN 196-10).

Incompatible materials:

Izdelek je treba skladiščiti v suhem in čistem prostoru, na nepremočljivem mestu, ki je zaščiten pred kontaminacijo.

Zaradi nezdružljivosti materialov ne uporabljajte aluminijastih posod.

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)**

Portlandski cement

| | | |
|---|---|---|
| CAS: 65997-15-1 | ACGIH | Long Term: 1 mg/m3 (8h)<br>Notes: E,R, A4 - Pulm func, resp symptoms, asthma |
| | NATIONAL Avstrija | Long Term: 5 mg/m3<br>Notes: MAK, E<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL Belgija | Long Term: 1 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL Španija | Long Term: 4 mg/m3<br>Notes: e, d<br>Source: LEP 2022 |
| | NATIONAL Finska | Long Term: 5 mg/m3<br>Notes: hengittyvä pöly<br>Source: HTP-ARVOT 2020 |
| | | Long Term: 1 mg/m3<br>Notes: alveolijae<br>Source: HTP-ARVOT 2020 |
| | NATIONAL Hrvaška | Long Term: 10 mg/m3<br>Notes: U<br>Source: NN 1/2021 |
| | | Long Term: 4 mg/m3<br>Notes: R<br>Source: NN 1/2021 |
| | NATIONAL Madžarska | Long Term: 10 mg/m3<br>Notes: N<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL Irska | Long Term: 1 mg/m3<br>Notes: R<br>Source: 2021 Code of Practice |
| | NATIONAL Latvija | Long Term: 6 mg/m3<br>Source: KN325P1 |
| | NATIONAL Poljska | Long Term: 6 mg/m3<br>Notes: 4)<br>Source: Dz.U. 2018 poz. 1286 |
| | | Long Term: 2 mg/m3<br>Notes: 6), 7)<br>Source: Dz.U. 2018 poz. 1286 |
| | SUVA Švicar | Long Term: 5 mg/m3<br>Notes: TWA mg/m3: (i), S, Poumons Asthme / Lunge Asthma<br>Source: suva.ch/valeurs-limites |

Calcium Carbonate

| | | |
|---|---|---|
| CAS: 471-34-1 | NATIONAL Francija | Long Term: 10 mg/m3<br>Source: INRS outil65 |
| | NATIONAL Hrvaška | Long Term: 10 mg/m3<br>Notes: U<br>Source: NN 1/2021 |
| | | Long Term: 4 mg/m3<br>Notes: R<br>Source: NN 1/2021 |
| | NATIONAL Madžarska | Long Term: 10 mg/m3<br>Notes: inhalable aerosol<br>Source: 5/2020. (II. 6.) ITM |
| | NATIONAL Irska | Long Term: 10 mg/m3<br>Notes: Inhalable fraction<br>Source: 2021 Code of Practice |
| | | Long Term: 4 mg/m3<br>Notes: Respirable fraction<br>Source: 2021 Code of Practice |

| | | | |
|---|---|---|---|
| | NATIONAL | Latvija | Long Term: 6 mg/m3<br>Source: KN325P1 |
| | NATIONAL | Poljska | Long Term: 10 mg/m3<br>Notes: 4)<br>Source: Dz.U. 2018 poz. 1286 |
| | SUVA | Švicar | Long Term: 3 mg/m3<br>Notes: TWA mg/m3: (a), Formel / Formal, NIOSH<br>Source: suva.ch/valeurs-limites |

Quartz (SiO2)

| | | | |
|---|---|---|---|
| CAS: 14808-60-7 | ACGIH | | Long Term: 0.025 mg/m3 (8h)<br>Notes: R, A2 - Pulm fibrosis, lung cancer |
| | NATIONAL | Belgija | Long Term: 0.1 mg/m3<br>Notes: C<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | Danska | Long Term: 0.3 mg/m3<br>Notes: alveolijae, liite 3<br>Source: BEK nr 2203 af 29/11/2021<br><br>Long Term: 0.1 mg/m3<br>Notes: EK<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | Španija | Long Term: 0.3 mg/m3<br>Notes: Respirable fraction<br>Source: LEP 2022 |
| | NATIONAL | Estonija | Long Term: 0.1 mg/m3<br>Notes: 1, C<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | Finska | Long Term: 0.05 mg/m3<br>Notes: alveolijae, liite 3<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | Francija | Long Term: 0.1 mg/m3<br>Notes: La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| | NATIONAL | Madžarska | Long Term: 0.1 mg/m3<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | Irska | Long Term: 0.1 mg/m3<br>Notes: Respirable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | Italija | Long Term: 0.1 mg/m3<br>Notes: Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008<br>Source: D.lgs. 81/2008, Allegato XLIII |
| | NATIONAL | Litva | Long Term: 0.1 mg/m3<br>Notes: Žiūrėti 1 priedo 3 punktą.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | Nizozemska | Long Term: 0.075 mg/m3<br>Notes: (2)<br>Source: Arbeidsomstandighedenregeling - Lijst B1 |
| | NATIONAL | Norveška | Long Term: 0.3 mg/m3<br>Notes: K 7<br>Source: FOR-2021-06-28-2248<br><br>Long Term: 0.05 mg/m3<br>Notes: K G 7 21<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | Poljska | Long Term: 0.1 mg/m3<br>Notes: 6)<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | Švedska | Long Term: 0.1 mg/m3<br>Notes: C, M, 3<br>Source: AFS 2021:3 |
| | SUVA | Švicar | Long Term: 0.15 mg/m3 |

| | | |
|---|---|---|
| | | Notes: TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites |
| Flue Dust, Portland Cement | | |
| CAS: 68475-76-3 | NATION Avstrija AL | Long Term: 5 mg/m3<br>Notes: MAK, E<br>Source: BGBl. II Nr. 156/2021 |
| Quarz (SIO2) | | |
| CAS: 14808-60-7 | ACGIH | Long Term: 0.025 mg/m3 (8h)<br>Notes: R, A2 - Pulm fibrosis, lung cancer |
| | EU | Long Term: 0.1 mg/m3<br>Notes: Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung cancer.<br>Directive 2017/2398 |
| | NATION Avstrija AL | Long Term: 0.05 mg/m3<br>Notes: MAK, III C, A<br>Source: BGBl. II Nr. 156/2021 |
| | NATION Belgija AL | Long Term: 0.1 mg/m3<br>Notes: C<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATION Danska AL | Long Term: 0.3 mg/m3<br>Source: BEK nr 2203 af 29/11/2021 |
| | | Long Term: 0.1 mg/m3<br>Notes: EK<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATION Španija AL | Long Term: 0.05 mg/m3 (8h)<br>Notes: Respirable fraction<br>Source: LEP 2022 |
| | NATION Estonija AL | Long Term: 0.1 mg/m3<br>Notes: 1, C<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATION Finska AL | Long Term: 0.05 mg/m3<br>Notes: alveolijae, liite 3<br>Source: HTP-ARVOT 2020 |
| | NATION Francija AL | Long Term: 0.1 mg/m3<br>Notes: La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| | NATION Hrvaška AL | Long Term: 0.1 mg/m3<br>Source: NN 1/2021 |
| | NATION Madžarska AL | Long Term: 0.1 mg/m3 (8h)<br>Notes: Respirable aerosol<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATION Irska AL | Long Term: 0.1 mg/m3 (8h)<br>Notes: Respirable fraction<br>Source: 2021 Code of Practice |
| | NATION Italija AL | Long Term: 0.1 mg/m3 (8h)<br>Notes: Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008<br>Source: D.lgs. 81/2008, Allegato XLIII |
| | NATION Litva AL | Long Term: 0.1 mg/m3<br>Notes: Žiūrėti 1 priedo 3 punktą.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATION Nizozemska AL | Long Term: 0.075 mg/m3<br>Notes: (2)<br>Source: Arbeidsomstandighedenregeling - Lijst B1 |
| | NATION Norveška AL | Long Term: 0.3 mg/m3<br>Notes: K 7<br>Source: FOR-2021-06-28-2248 |
| | | Long Term: 0.05 mg/m3<br>Notes: K G 7 21<br>Source: FOR-2021-06-28-2248 |

| | | |
|---|---|---|
| NATION AL | Poljska | Long Term: 0.1 mg/m3<br>Notes: 6)<br>Source: Dz.U. 2018 poz. 1286 |
| NATION AL | Švedska | Long Term: 0.1 mg/m3<br>Notes: C, M, 3<br>Source: AFS 2021:3 |
| SUVA | Švicar | Long Term: 0.15 mg/m3<br>Notes: TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites |

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

Flue Dust, Portland Cement

CAS: 68475-76-3 Exposure Route: Fresh Water; PNEC Limit: 282 mg/m3

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 282 mg/m3

Exposure Route: Marine water; PNEC Limit: 28 mg/m3

Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 6 mg/kg

Exposure Route: Usedline morske vode; PNEC Limit: 88 µg/kg

Exposure Route: Freshwater sediments; PNEC Limit: 875 µg/kg

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

Flue Dust, Portland Cement

CAS: 68475-76-3 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 840 µg/m³; Consumer: 840 µg/m³

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 4 mg/kg/day

**8.2. Exposure controls**

Eye protection:

Očala s stransko zaščito.(EN166)

Protection for skin:

Kemična zaščitna oblačila. Zaščitna obutev

Protection for hands:

Zaščita rok:

Materiali primerni za začitne rokavice; EN 374:

Nitril kavčuk NBR: debeline ≥ 0,35 mm; čas preboja ≥ 480 min.

Respiratory protection:

Filter za delce P2.

Thermal Hazards:

Ni predvideno, če se uporablja, kot je predvideno

Environmental exposure controls:

Ne dovolite, da izdelek pride v kanalizacijo ali v površinske ali podzemne vode.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state: | Solid |
| Colour: | grey |
| Odour: | odourless |
| pH: | =11.00 1%<br>Method: OECD 122 |
| Kinematic viscosity: | Not Relevant<br>Notes: Ni določeno, ker ni potrebno za CLP-razvrstitev |
| 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: | Not Relevant<br>Notes: Se ne uporablja, ker zmes ni tekoča |

| | |
|---|---|
| Relative vapour density: | Not Relevant<br>Notes: Se ne uporablja, ker zmes ni tekoča |
| Vapour pressure: | Not Relevant<br>Notes: Se ne uporablja, ker zmes ni vnetljiva |
| Density and/or relative density: | 1.07 g/cm3<br>Method: EN 1097-03 |
| Solubility in water: | Topno |
| Solubility in oil: | Not Relevant<br>Notes: Ni določeno, ker ni potrebno za CLP-razvrstitev |
| Partition coefficient n-octanol/water (log value): | Not Relevant<br>Notes: Ni uporabljivo za zmesi |
| Auto-ignition temperature: | Not Relevant<br>Notes: Se ne uporablja, ker zmes ni vnetljiva |
| Decomposition temperature: | Not Relevant<br>Notes: Ni uporabljivo, ker zmes ni samoreaktivna |
| Flammability: | Not Relevant<br>Notes: Se ne uporablja, ker zmes ni vnetljiva |
| Volatile Organic compounds - VOCs = | 0.00%; 0.00g/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**

Izdelek je stabilen dlje časa, če se skladišči v ustreznih pogojih skladno z navodili (glej točko 7).

Vlažen izdelek je bazičen in nezdružljiv s kislinami, amonijevimi solmi, aluminijem in drugimi nežlahtnimi kovinami. Mešanice z vsebnostjo cementa se ob stiku s fluorovodikovo kislino razgradijo in tvorijo jedek plin silicijev tetrafluorid. Mešanice z vsebnostjo cementa reagirajo z vodo in tvorijo kalcijeve silikate in hidroksid. Silikati v cementu reagirajo z močnimi oksidanti, kot so fluor, borov trifluorid, klorov trifluorid, magnezijev trifluorid in kisikov difluorid.

Neodprte embalaže in upoštevanje pogojev skladiščenja, kot je navedeno v točki 7.2 (ustrezne zaprte posode, suh in svež prostor brez prezračevanja) so nujni pogoji

za ohranjanje učinkovitosti redukcijskega sredstva v obdobju shranjevanja, navedenem na vreči.

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

Kisline, amonijeve in aluminijeve soli ter soli drugih nežlahtnih kovin. Zaradi nastajanja hidrogena se je treba izogibati nekontrolirani uporabi aluminijevega prahu v izdelkih, ki vsebujejo moker cement.

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<br>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 |
| g) reproductive toxicity | Not classified |
| | Based on available data, the classification criteria are not met |
| h) STOT-single exposure | The product is classified: STOT SE 3(H335) |
| 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:**

Flue Dust, Portland Cement

| | | |
|---|---|---|
| CAS: 68475-76-3 | a) acute toxicity | LD50 Oral Rat > 1848 mg/kg |
| | | LC50 Inhalation Dust Rat > 6.04 mg/l 4h |
| | | LD50 Skin Rat >= 2000 mg/kg 24h |
| | b) skin corrosion/irritation | Skin Irritant Negative |
| | c) serious eye damage/irritation | Eye Irritant Yes |
| | d) respiratory or skin sensitisation | Skin Sensitization Positive |
| | f) carcinogenicity | Genotoxicity Rat Negative |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 16 mg/kg |

Quarz (SIO2)

| | | |
|---|---|---|
| CAS: 14808-60-7 | Generic information: | Informazione tossicologia a livello di sostanza |
| | 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**

Flue Dust, Portland Cement

| | |
|---|---|
| CAS: 68475-76-3 | a) Aquatic acute toxicity: NOEC Fish zebrafish = 11.1 mg/L 96h |
| | a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 100 mg/L 48h |
| | b) Aquatic chronic toxicity: NOELR Daphnia Daphnia magna = 50 mg/L 48h |
| | b) Aquatic chronic toxicity: EL10 Daphnia Daphnia magna = 68.2 mg/L 48h |
| | a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 28.2 mg/L 72h |
| | a) Aquatic acute toxicity: EC50 Sludge activated sludge = 596 mg/L |
| | b) Aquatic chronic toxicity: EC50 = 9931 mg/kg |
| | d) Terrestrial toxicity: EC50 Worm Eisenia fetida = 1000 mg/kg |

**12.2. Persistence and degradability**

N.A.

**12.3. Bioaccumulative potential**

N.A.

**12.4. Mobility in soil**

N.A.

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

Ni sestavine PBT/vPvB.

**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**

Če je mogoče, predelajte. Pošljite v usposobljena odlagališča ali v zažig pod kontroliranimi pogoji. Ravnajte se po lokalnih in državnih normah. Odstranjevanje z izpustom v odpadne vode ni dovoljeno

Odstranjeni izdelek mora biti v skladu z Uredbo (EU) 1357/2014 razvrščen kot nevaren odpadek

Šifre odpadkov v skladu z Evropski seznam odpadkov (ESO) ni mogoče določiti zaradi odvisnosti od uporabe. Obrnite se na pooblaščeno službo za odstranjevanje odpadkov.

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

N.A.

## 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.

## SECTION 15: Regulatory information

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

EN 196/10 – Metode preskušanja cementa – 10. del: Določevanje vodotopnega kroma (VI) v cementu

Uredba (ES) št. 1907/2006 (REACH) v 47. točki Priloge XVII in Uredba št. 552/2009 o spremembi te priloge prepoveduje dajanje v promet in uporabo cementa in njegovih zmesi, če v hidratizirani obliki vsebujejo več kot 0,0002 % (2 ppm) v vodi topnega kroma VI, računano na skupno suho težo cementa. Ta omejitev se zagotavlja z uporabo posebnega aditiva cementu, reducenta, čigar učinkovitost je zagotovljena za določen vnaprej predviden rok trajanja ob upoštevanju ustreznih navodil skladiščenja (navedeno v točkah 7.2 in 10.2).

Glede na to, da je cement zmes, kot tak ni predmet registracije REACH, ki zadeva snovi. Cementni klinker pa je snov, ki je na podlagi člena 2.7 (b) in Priloge V.10 uredbe REACH iz registracije izvzeta.

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 (EU) n. 2020/878

| | |
|---|---|
| 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. 2024/2564 (ATP 22 CLP) |
| Regulation (EU) n. 2024/2865 | Regulation (EU) n. 2025/1222 (ATP 23 CLP) |

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

Omejitve, povezane z izdelkom ali vsebovanimi snovmi, v skladu s Prilogo XVII Uredbe (ES) 1907/2006 (REACH) in poznejše spremembe:

Restrictions related to the product: Nobena

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:**

Flue Dust, Portland Cement

## SECTION 16: Other information

| Code | Description |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| 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 |
| 3.4.2/1 | Skin Sens. 1 | Skin Sensitisation, 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]:**

| 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 |
| STOT SE 3, H335 | 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.

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

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:**

- Safety Data Sheet
- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 10: Stability and reactivity
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

# Scenarij izpostavljenosti

## Flue dust, portland cement

## Scenarij izpostavljenosti, 08/06/2021

| Identiteta snovi | |
|---|---|
| | Flue dust, portland cement |
| **št.CAS** | 68475-76-3 |
| **št.EINECS** | 270-659-9 |
| **Registracijska številka** | 01-2119486767-17 |

## Kazalo

1. **ES 1** Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9b, PC9a, PC1, PC15)

# 1. ES 1 Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9b, PC9a, PC1, PC15)

## 1.1 NASLOVNI ODSTAVEK

| | |
|---|---|
| **Ime scenarija izpostavljenosti** | Uporaba v visokih in nizkih gradnjah - Gospodarska uporaba sredstev za nego tal - Lepljiva podlaga |
| **Datum - revizija** | 25/03/2021 - 1.0 |
| **Stopnja življenjskega cikla** | Široko razširjena uporaba, ki jo izvajajo poklicni delavci |
| **Glavna uporabniška skupina** | Poklicne uporabe |
| **Sektor(-ji) uporabe** | Poklicne uporabe (SU22) |
| **Kategorije izdelkov** | Polnila, kiti, mavci, modelirna glina (PC9b) - Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a) - Lepila, tesnilna sredstva (PC1) - Izdelki za obdelavo nekovinskih površin (PC15) |
| **Kategorije proizvodov** | Izdelki iz kamna, mavca, cementa, stekla in keramike: Izdelki, ki se uporabljajo na velikih površinah (AC4a) |

### Scenarij, ki prispeva Okolje

| | |
|---|---|
| **CS1 Nizki izpusti v okolje** | ERC2 |

### Scenarij, ki prispeva Delojemalec

| | |
|---|---|
| **CS2 Dejavnosti mešanja - Polnjenje posod in izlivanje iz njih - Ročna uporaba - Prstne barve, krede, lepila - Polnjenje in priprava opreme iz sodov ali posod - Ročno - Čiščenje in vzdrževanje naprave - Nanašanje z valjem, pršenjem in polivanjem - Vzdrževanje opreme** | PROC5 - PROC8a - PROC8b - PROC10 - PROC11 - PROC19 - PROC26 - PROC28 |

## 1.2 Pogoji uporabe z vplivom na izpostavitev

### 1.2. CS1: Scenarij, ki prispeva Okolje: Nizki izpusti v okolje (ERC2)

| | |
|---|---|
| **Kategorije sproščanja v okolje** | Formuliranje v zmes (ERC2) |

#### *Lastnosti izdelka (proizvoda)*

**Fizikalna oblika izdelka:**

Trdna snov, zelo visoka prašnost

**Parni tlak:**

< 1E-05 Pa

### 1.2. CS2: Scenarij, ki prispeva Delojemalec: Dejavnosti mešanja - Polnjenje posod in izlivanje iz njih - Ročna uporaba - Prstne barve, krede, lepila - Polnjenje in priprava opreme iz sodov ali posod - Ročno - Čiščenje in vzdrževanje naprave - Nanašanje z valjem, pršenjem in polivanjem - Vzdrževanje opreme (PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC26, PROC28)

| | |
|---|---|
| **Kategorije procesov** | Mešanje ali legiranje v šaržnih procesih - Prenos snovi ali zmesi (polnjenje in praznjenje) na nenamenskih napravah - Prenos snovi ali zmesi (polnjenje in praznjenje) na namenskih napravah - Nanašanje z valjčkom ali čopičem - Neindustrijsko brizganje - Ročne dejavnosti, ki vključujejo ročni stik - Rokovanje s trdnimi anorganskimi snovmi na sobni temperaturi - Ročno vzdrževanje (čiščenje in popravila) strojev (PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC26, PROC28) |

#### *Lastnosti izdelka (proizvoda)*

**Fizikalna oblika izdelka:**

Trdna snov, zelo visoka prašnost
Trdna snov v raztopini
pastozen

**Koncentracija substance v produktu:**

Obsega delež snovi v izdelku do 5 %.

#### *Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost*

**Trajanje:**

Trajanje izpostavljenosti <= 480 min

**Frekvenca:**

Pogostost uporabe = 8 h/dogodek

### *Tehnični in organizacijski pogoji in ukrepi*

**Tehnični in organizacijski ukrepi**

Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev delovanja.
Pri dejavnostih z veliko razpršitvijo, kjer so verjetni znatni izpusti aerosolov (npr. razprševanje), so morda potrebni dodatni ukrepi za zaščito kože, kot so neprepustna oblačila in zaščita obraza.
Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.
Za ukrepe za obvladovanje tveganja zaradi fizikalno-kemičnih lastnosti glejte glavno besedilo varnostnega lista, oddelek 7 in/ali 8.
Ne používati.

### *Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja*

**Osebna zaščitna oprema**

Nosite primerne rokavice, preizkušene po EN374.
Uporaba zaščite oči v skladu z EN 166.
Nosite respirator skladno z EN140.

### *Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev*

Zajema notranjo in zunanjo uporabo
Gospodarska uporaba
**Temperatura:** Obsega uporabo pri temperaturi okolice. 23°C
**Izpostavljeni deli telesa:**

Predpostavlja se, da je morebiten stik s kožo omejen na dlani in podlakti.

### *Dodaten nasvet iz primerov dobre prakse. Obveznosti v skladu s 4. odstavkom 37. člena Uredbe REACH ne veljajo.*

**Dodaten nasvet iz primerov dobre prakse:**

Zagotovite reden servis, čiščenje in vzdrževanje strojev in naprav Sprejeti preventivne ukrepe in ukrepe za vajo za nujno dekontaminacijo in odstranjevanje odpadnih snovi Zagotovite redno preverjanje in vzdrževanje nadzornih ukrepov.

## 1.3 Ocena izpostavljenosti in sklicevanje na njen vir

**1.3. CS2: Scenarij, ki prispeva Delojemalec: Dejavnosti mešanja - Polnjenje posod in izlivanje iz njih - Ročna uporaba - Prstne barve, krede, lepila - Polnjenje in priprava opreme iz sodov ali posod - Ročno - Čiščenje in vzdrževanje naprave - Nanašanje z valjem, pršenjem in polivanjem - Vzdrževanje opreme (PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC19, PROC26, PROC28)**

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti | Metoda izračuna | Stopnja opredelitve tveganja (RCR) |
|---|---|---|---|
| inhalacijski, lokalno, kratkoročno | < 1 mg/m³ | MEASE | <= 0.83 |

**Dodatne informacije glede ocene izpostavljenosti:**

Razpoložljivi podatki o nevarnostih ne dovoljujejo odstopanja od DNEL za draženje na koži.

## 1.4 Smernica za uporabnika, za ugotavljanje, ali dela znotraj omejitev scenarija izpostavitve

**Vodilo za preverjanje skladnosti s scenarijem izpostavljenosti:**

Če so bili sprejeti dodatni ukrepi za upravljanje s tveganji/pogoji za uporabo, morajo uporabniki zagotoviti vsaj enakovredno raven upravljanja s tveganji.