**Safety Data Sheet**

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

**L34 HYBRID**

Date of first edition: 29. 11. 2021

Safety Data Sheet dated 19/11/2026 version 5

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

### 1.1. Product identifier

Mixture identification:

Trade name: L34 HYBRID

Trade code: S100B0283 43

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

Recommended use: Lepila, tesnilne mase

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)**

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

The product is not classified as hazardous according to Regulation EC 1272/2008 (CLP).

**Special Provisions:**

EUH210 Safety data sheet available on request.

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

Nobena

### 2.3. Other hazards

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

Other Hazards: Kristalni silicijev dioksid v respirabilni frakciji, ki je prisoten v izdelku, ne prispeva k razvrščanju glede na nevarnost v skladu z merili, določenimi z Uredbo (ES) 1272/2008 (CLP), zaradi fizičnega stanja samega izdelka (tekočina/pastozno trdna), ko je dan v promet in v katerem upravičeno lahko pričakujemo, da bo uporabljen. (Stališče IMA-Europe, Klasifikacija mešanic v tekoči obliki, ki vsebujejo kristalni silicijev dioksid (Maj 2020)).

Tekoča/pastozno trdna zmes zaradi strjevanja ali izpostavljenosti toploti lahko izgubi vsebnost tekočine (voda in druge tekoče komponente) in preide v trdno stanje; v primeru ravnanja s trdo mešanico je za odstranjevanje (neskladen izdelek) ravnajte se po lokalnih in državnih normah.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: L34 HYBRID

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

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|---|---|---|---|---|
| ≥3-<5 % | Quarz (SIO2) | CAS:14808-60-7 | STOT RE 1, H372 | |

| | | | | |
|---|---|---|---|---|
| | | EC:238-878-4 | | |
| ≥1-<3 % | Trimethoxyphenylsilane | CAS:2996-92-1<br>EC:221-066-9 | Acute Tox. 4, H302; STOT RE 2, H373 | 01-2119964479-19 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

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

N.A.

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

N.A.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide ($CO_2$).

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.

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

Incompatible 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

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## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Community Occupational Exposure Limits (OEL)**

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) |

| | | | |
|---|---|---|---|
| | | | 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<br>Notes: TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites |
| 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. Directive 2017/2398 |
| | NATIONAL | Avstrija | Long Term: 0.05 mg/m3<br>Notes: MAK, III C, A<br>Source: BGBl. II Nr. 156/2021 |
| | 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>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 |
| | NATIONAL | Španija | Long Term: 0.05 mg/m3 (8h)<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 | Hrvaška | Long Term: 0.1 mg/m3<br>Source: NN 1/2021 |
| | NATIONAL | Madžarska | Long Term: 0.1 mg/m3 (8h)<br>Notes: Respirable aerosol<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | Irska | Long Term: 0.1 mg/m3 (8h)<br>Notes: Respirable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | Italija | 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 |
| | 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 |
| | | | 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<br>Notes: TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites |
| metanol | | | |
| CAS: 67-56-1 | ACGIH | | Long Term: 200 ppm (8h); Short Term: 250 ppm<br>Notes: Skin, BEI - Headache, eye dam, dizziness, nausea |
| | EU | | Long Term: 260 mg/m3 - 200 ppm (8h)<br>Notes: Skin |
| | NATIONAL | Avstrija | Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm<br>Notes: 15(Miw), 4x, MAK, H<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | Belgija | Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm<br>Notes: D<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | Bolgarija | Long Term: 260 mg/m3 - 200 ppm<br>Notes: Кожа<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | Ciper | Long Term: 260 mg/m3 - 200 ppm<br>Notes: δέρμα<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| | NATIONAL | Češka | Long Term: 250 mg/m3; Short Term: Ceiling - 1000 mg/m3<br>Notes: D, B<br>Source: Nařízení vlády č. 361-2007 Sb |
| | NATIONAL | Nemčija | Long Term: 130 mg/m3 - 100 ppm<br>Notes: DFG, EU, H, Y, 2(II)<br>Source: TRGS 900 |
| | NATIONAL | Danska | Long Term: 260 mg/m3 - 200 ppm<br>Notes: EH<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | Španija | Long Term: 266 mg/m3 - 200 ppm<br>Notes: vía dérmica, VLB®, VLI, r<br>Source: LEP 2022 |
| | NATIONAL | Estonija | Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm<br>Notes: A<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | Finska | Long Term: 270 mg/m3 - 200 ppm; Short Term: 330 mg/m3 - 250 ppm<br>Notes: iho<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | Francija | Long Term: 260 mg/m3 - 200 ppm; Short Term: 1300 mg/m3 - 1000 ppm<br>Notes: Risque de pénétration percutanée<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| | NATIONAL | Grčija | Long Term: 260 mg/m3 - 200 ppm; Short Term: 325 mg/m3 - 250 ppm<br>Notes: Δ<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | Hrvaška | Long Term: 260 mg/m3 - 200 ppm<br>Notes: koža<br>Source: 2006/15/EZ |
| | NATIONAL | Madžarska | Long Term: 260 mg/m3<br>Notes: b, i, BEM, EU2, R+T<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | Irska | Long Term: 260 mg/m3 - 200 ppm<br>Notes: Sk, IOELV<br>Source: 2021 Code of Practice |

| | | |
|---|---|---|
| NATIONAL | Italija | Long Term: 260 mg/m3 - 200 ppm<br>Notes: Cute<br>Source: D.lgs. 81/2008, Allegato XXXVIII |
| NATIONAL | Litva | Long Term: 260 mg/m3 - 200 ppm<br>Notes: O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| NATIONAL | Luksemburg | Long Term: 260 mg/m3 - 200 ppm<br>Notes: Peau<br>Source: Mémorial A n.226 du 22 mars 2021 |
| NATIONAL | Latvija | Long Term: 260 mg/m3 - 200 ppm<br>Notes: Āda<br>Source: KN325P1 |
| NATIONAL | Malta | Long Term: 260 mg/m3 - 200 ppm<br>Notes: skin<br>Source: S.L.424.24 |
| NATIONAL | Nizozemska | Long Term: 133 mg/m3<br>Notes: H<br>Source: Arbeidsomstandighedenregeling - Lijst A |
| NATIONAL | Norveška | Long Term: 130 mg/m3 - 100 ppm<br>Notes: H E<br>Source: FOR-2021-06-28-2248 |
| NATIONAL | Poljska | Long Term: 100 mg/m3; Short Term: 300 mg/m3<br>Notes: skóra<br>Source: Dz.U. 2018 poz. 1286 |
| NATIONAL | Portugalska | Long Term: 260 mg/m3 - 200 ppm<br>Notes: Cutânea<br>Source: Decreto-Lei n.º 1/2021 |
| NATIONAL | Romunija | Long Term: 260 mg/m3 - 200 ppm<br>Notes: P, Dir. 2006/15<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| NATIONAL | Slovaška | Long Term: 260 mg/m3 - 200 ppm<br>Notes: K, 7)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| NATIONAL | Slovenija | Long Term: 260 mg/m3 - 200 ppm; Short Term: 1040 mg/m3 - 800 ppm<br>Notes: K, Y, BAT, EU2<br>Source: UL št. 72, 11. 5. 2021 |
| NATIONAL | Švedska | Long Term: 250 mg/m3 - 200 ppm; Short Term: 350 mg/m3 - 250 ppm<br>Notes: H, V<br>Source: AFS 2021:3 |
| WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm<br>Notes: Sk<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| SUVA | Švicar | Long Term: 260 mg/m3 - 200 ppm; Short Term: 520 mg/m3 - 400 ppm<br>Notes: R/H, SSC, B, SNC / ZNS, INRS NIOSH<br>Source: suva.ch/valeurs-limites |

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

Trimethoxyphenylsilane

| | |
|---|---|
| CAS: 2996-92-1 | Exposure Route: Fresh Water; PNEC Limit: 240 mg/m3 |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2.4 mg/l |
| | Exposure Route: Marine water; PNEC Limit: 24 mg/m3 |
| | Exposure Route: Intermittent releases (marine water); PNEC Limit: 2.4 mg/l |
| | Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 74 mg/l |
| | Exposure Route: Freshwater sediments; PNEC Limit: 1.1 mg/kg |
| | Exposure Route: Usedline morske vode; PNEC Limit: 110 µg/kg |
| | Exposure Route: Zemlja; PNEC Limit: 80 µg/kg |

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

Trimethoxyphenylsilane

CAS: 2996-92-1 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects
Worker Professional: 40.2 mg/kg/day; Consumer: 10 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects
Worker Professional: 260 mg/kg/day; Consumer: 50 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects
Worker Professional: 260 mg/kg/day; Consumer: 50 mg/kg/day

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects
Worker Professional: 260 mg/kg/day; Consumer: 50 mg/kg/day

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects
Worker Professional: 2.5 mg/kg; Consumer: 1.73 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects
Consumer: 33.3 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects
Consumer: 700 µg/kg

**8.2. Exposure controls**

Eye protection:

No specific requirements during normal conditions of use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

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.

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## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state: | Liquid |
| Colour: | white |
| Odour: | lahek |
| pH: | N.A. |
| Kinematic viscosity: | N.A. |
| Melting point/freezing point: | N.A. |
| Boiling point or initial boiling point and boiling range: | 224 °C (435 °F) |
| Flash point: | > 93°C |
| Lower and upper explosion limit: | N.A. |
| Relative vapour density: | N.A. |
| Vapour pressure: | N.A. |
| Density and/or relative density: | 1.79 g/cm3 |
| Solubility in water: | N.A. |
| 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 = | 0.01%; 0.26g/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**

Data not available.

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

## SECTION 11: Toxicological information

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

**Toxicological Information of the Preparation**

| | |
|---|---|
| a) acute toxicity | Not classified |
| | Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation | Not classified |
| | Based on available data, the classification criteria are not met |
| c) serious eye damage/irritation | Not classified |
| | Based on available data, the classification criteria are not met |
| d) respiratory or skin sensitisation | Not classified |
| | Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity | Not classified |
| | Based on available data, the classification criteria are not met |
| f) carcinogenicity | Not classified |
| | Based on available data, the classification criteria are not met |
| g) reproductive toxicity | Not classified |
| | Based on available data, the classification criteria are not met |
| h) STOT-single exposure | Not classified |
| | Based on available data, the classification criteria are not met |
| i) STOT-repeated exposure | Not classified |
| | Based on available data, the classification criteria are not met |
| j) aspiration hazard | Not classified |
| | Based on available data, the classification criteria are not met |

**Toxicological information on main components of the mixture:**

Quarz (SIO2)

| | | |
|---|---|---|
| CAS: 14808-60-7 | Generic information: | Informazione tossicologia a livello di sostanza |
| | a) acute toxicity | LD50 Oral > 2000 mg/kg |

Trimethoxyphenylsilane

| | | |
|---|---|---|
| CAS: 2996-92-1 | a) acute toxicity | LD50 Oral Rat = 1049 mg/kg |
| | | LD50 Skin Rabbit = 3014 mg/kg 24h |
| | b) skin corrosion/irritation | Skin Irritant Rabbit Negative 24h |
| | c) serious eye damage/irritation | Eye Irritant Rabbit No |

| | |
|---|---|
| d) respiratory or skin sensitisation | Skin Sensitization Guineapig Negative |
| f) carcinogenicity | Genotoxicity Rat Negative |
| g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 500 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**

Trimethoxyphenylsilane

| | |
|---|---|
| CAS: 2996-92-1 | a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss = 1400 mg/L 96h |
| | a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 600 mg/L 96h |
| | a) Aquatic acute toxicity: EC50 Algae Pseudokirchnerella subcapitata = 120 mg/L 96h |
| | a) Aquatic acute toxicity: NOEC Sludge activated sludge = 1000 mg/L 3h |

**12.2. Persistence and degradability**

Trimethoxyphenylsilane

CAS: 2996-92-1 Non-readily biodegradable

**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. 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 nenevaren 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.

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## SECTION 15: Regulatory information

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

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

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

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

Regulation (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: 3

Restrictions related to the substances contained: 40, 69, 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 10

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:**

Trimethoxyphenylsilane

## SECTION 16: Other information

| Code | Description |
|---|---|
| H302 | Harmful if swallowed. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

| Code | Hazard class and hazard category | Description |
|---|---|---|
| 3.1/4/Oral | Acute Tox. 4 | Acute toxicity (oral), Category 4 |
| 3.9/1 | STOT RE 1 | Specific target organ toxicity — repeated exposure, Category 1 |
| 3.9/2 | STOT RE 2 | Specific target organ toxicity — repeated exposure, Category 2 |

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 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information

# Scenarij izpostavljenosti
## Trimethoxyphenylsilane

# Scenarij izpostavljenosti, 15/06/2022

| Identiteta snovi | |
|---|---|
| | Trimethoxyphenylsilane |
| **št.CAS** | 2996-92-1 |
| **št.EINECS** | 221-066-9 |
| **Registracijska številka** | 01-2119964479-19 |

## Kazalo

1. **ES 1** Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a); Gradbeništvo (SU19)

# 1. ES 1 Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a); Gradbeništvo (SU19)

## 1.1 NASLOVNI ODSTAVEK

| | |
|---|---|
| **Ime scenarija izpostavljenosti** | Uporaba za trde penaste mase, premaze, lepila in tesnila |
| **Datum - revizija** | 15/06/2022 - 1.0 |
| **Stopnja življenjskega cikla** | Široko razširjena uporaba, ki jo izvajajo poklicni delavci |
| **Glavna uporabniška skupina** | Poklicne uporabe |
| **Sektor(-ji) uporabe** | Poklicne uporabe (SU22) - Gradbeništvo (SU19) |
| **Kategorije izdelkov** | Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a) |

| **Scenarij, ki prispeva Okolje** | |
|---|---|
| **CS1** | ERC8c - ERC8f |

| **Scenarij, ki prispeva Delojemalec** | |
|---|---|
| **CS2 Nanašanje z valjem in čopičem - Dejavnosti mešanja** | PROC10 - PROC19 |
| **CS3 Nanašanje z valjem, pršenjem in polivanjem** | PROC11 |

## 1.2 Pogoji uporabe z vplivom na izpostavitev

### 1.2. CS1: Scenarij, ki prispeva Okolje (ERC8c, ERC8f)

| | |
|---|---|
| **Kategorije sproščanja v okolje** | Široko razširjena uporaba, rezultat katere je vključitev v ali na izdelek (notranja) - Široko razširjena uporaba, rezultat katere je vključitev v ali na izdelek (zunanja) (ERC8c, ERC8f) |

*Lastnosti izdelka (proizvoda)*

**Fizikalna oblika izdelka:**
Tekočina, parni tlak > 10 Pa (STP)

**Parni tlak:**
= 18.2 Pa

**Koncentracija substance v produktu:**
Obsega delež snovi v izdelku do 5 %.

*Uporabljena količina, pogostost in trajanje uporabe/(ali amortizacijska doba)*

**Uporabljene količine:**
Letna tonaža lokacije = 1 t

**Dnevi emisij:** 365 dnevi na leto

*Pogoji in ukrepi v zvezi s komunalnimi čistilnimi napravami*

**Vrsta čistilne naprave (STP):**
Komunalna STP čistilna naprava
**STP odpadne vode (m3/dan):** 2000

*Drugi pogoji uporabe, ki vplivajo na izpostavljenost okolja*

**Krajevni faktor razredčenja morske vode::** 100
**Krajevni faktor razredčenja sladke vode:** 10

### 1.2. CS2: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem - Dejavnosti mešanja (PROC10, PROC19)

| | |
|---|---|
| **Kategorije procesov** | Nanašanje z valjčkom ali čopičem - Ročne dejavnosti, ki vključujejo ročni stik (PROC10, PROC19) |

*Lastnosti izdelka (proizvoda)*

**Fizikalna oblika izdelka:**
Tekočina, parni tlak > 10 Pa (STP)

**Parni tlak:**
= 18.2 Pa

**Koncentracija substance v produktu:**
Obsega delež snovi v izdelku do 1 %.

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

**Trajanje:**
Obsega dnevno izpostavljenost do 8 ure

**Frekvenca:**
Obsega izpostavljenost do dnevi na teden

### *Tehnični in organizacijski pogoji in ukrepi*

**Tehnični in organizacijski ukrepi**
Med uporabo odprite okna zaradi zagotavljanja naravnega prezračevanja.

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

**Osebna zaščitna oprema**

| | |
|---|---|
| Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374). | Kožni - najmanjša učinkovitost: 80 % |

## 1.2. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem, pršenjem in polivanjem (PROC11)

| | |
|---|---|
| **Kategorije procesov** | Neindustrijsko brizganje (PROC11) |

### *Lastnosti izdelka (proizvoda)*

**Fizikalna oblika izdelka:**
Tekočina, parni tlak > 10 Pa (STP)

**Parni tlak:**
= 18.2 Pa

**Koncentracija substance v produktu:**
Obsega delež snovi v izdelku do 1 %.

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

**Trajanje:**
Obsega dnevno izpostavljenost do 8 ure

**Frekvenca:**
Obsega izpostavljenost do dnevi na teden

### *Tehnični in organizacijski pogoji in ukrepi*

**Tehnični in organizacijski ukrepi**
Med uporabo odprite okna zaradi zagotavljanja naravnega prezračevanja.

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

**Osebna zaščitna oprema**

| | |
|---|---|
| Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374). | Kožni - najmanjša učinkovitost: 80 % |

# 1.3 Ocena izpostavljenosti in sklicevanje na njen vir

## 1.3. CS1: Scenarij, ki prispeva Okolje (ERC8c, ERC8f)

| cilj zaščite | Stopnja izpostavljenosti | Metoda izračuna | Stopnja opredelitve tveganja (RCR) |
|---|---|---|---|

| | | | |
|---|---|---|---|
| sladka voda | 0.00056 mg/L | EUSES v2.1 | 0.0023 |
| morska voda | 5.5E-05 mg/L | EUSES v2.1 | 0.0023 |
| sladkovodne usedline | 0.00047 mg/kg mokra teža | EUSES v2.1 | 0.002 |
| morske usedline | 4.6E-05 mg/kg mokra teža | EUSES v2.1 | 0.0019 |
| tla | 0.000217 mg/kg mokra teža | EUSES v2.1 | 0.0031 |
| Čistilnih napravah | < 1E-06 mg/L | EUSES v2.1 | < 1E-06 |

### 1.3. CS2: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem - Dejavnosti mešanja (PROC10, PROC19)

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti | Metoda izračuna | Stopnja opredelitve tveganja (RCR) |
|---|---|---|---|
| inhalacijski, dolgoročno | 2.85 mg/m³ | Stoffenmanager v5.6.10 | 0.071 |
| stik s kožo, dolgoročno | 0.0274 mg/kg bw/dan | ECETOC TRA delojemalec v3 | 0.011 |

### 1.3. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem, pršenjem in polivanjem (PROC11)

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti | Metoda izračuna | Stopnja opredelitve tveganja (RCR) |
|---|---|---|---|
| inhalacijski, dolgoročno | 9.66 mg/m³ | Stoffenmanager v5.6.10 | 0.24 |
| stik s kožo, dolgoročno | 0.0429 mg/kg bw/dan | ECETOC TRA delojemalec v3 | 0.017 |

## 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.