

## Safety Data Sheet

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

## DECOR

Date of first edition: 20. 06. 2025

Safety Data Sheet dated 16/09/2026 version 6

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

### 1.1. Product identifier

Mixture identification:

Trade name: DECOR

Trade code: 001031023

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

Recommended use: Barve/premazi – dekorativni

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)

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.

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

#### Special Provisions:

EUH208 Contains 1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on. May produce an allergic reaction.

EUH208 Contains 2-oktil-2H-izotiazol-3-on. May produce an allergic reaction.

EUH208 Contains 2-metilizotiazol-3(2H)-on. May produce an allergic reaction.

EUH208 Contains reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1). May produce an allergic reaction.

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

Notranje matirane stene in stropi (Sijaj < 25@60o)

EU limit value for this product (cat. A/a): 30 g/l

This product contains max 5.19 g/l VOC.

#### 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  $\geq 0.1\%$

Other Hazards: Vsebuje biocidni proizvod: C(M)IT/MIT (3:1)

; BIT; MIT; IPBC; Označevanje proizvoda je v skladu z 58. členom Uredbe EU št. 528/2012 in kasnejšimi spremembami.

Preprečiti je treba morebitno izpostavljenost kože. Potrebna je uporaba zaščitnih rokavic in delovnih oblačil. Preprečite izpust

**SECTION 3: Composition/information on ingredients****3.1. Substances**

N.A.

**3.2. Mixtures**

Mixture identification: DECOR

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

| Qty          | Name                                                                                   | Ident. Numb.                                         | Classification                                                                                                                                                                                                                                                                                                                                                                                          | Registration Number |
|--------------|----------------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| ≥0.1-<0.15 % | cinkov oksid                                                                           | CAS:1314-13-2<br>EC:215-222-5<br>Index:030-013-00-7  | Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1                                                                                                                                                                                                                                                                                                                                  | 01-2119463881-32    |
| ≥0.05-<0.1 % | 3-jodo-2-propinil butilkarbamat;<br>3-jodoprop-2-in-1-il butilkarbamat                 | CAS:55406-53-6<br>EC:259-627-5<br>Index:616-212-00-7 | Acute Tox. 2, H330; Acute Tox. 4, H302; STOT RE 1, H372; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:10, M-Acute:10<br><br>Acute Toxicity Estimate:<br>ATE - Inhalation (Dust/mist):<br>0.17 mg/l                                                                                                                                                   |                     |
| <0.05 %      | Quarz (SiO <sub>2</sub> )                                                              | CAS:14808-60-7<br>EC:238-878-4                       | STOT RE 1, H372                                                                                                                                                                                                                                                                                                                                                                                         |                     |
| <0.036 %     | 1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on                                   | CAS:2634-33-5<br>EC:220-120-9<br>Index:613-088-00-6  | Acute Tox. 2, H330; Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1<br><br>Specific Concentration Limits:<br>C ≥ 0.036%: Skin Sens. 1A H317<br><br>Acute Toxicity Estimate:<br>ATE - Oral: 450mg/kg bw<br>ATE - Inhalation (Dust/mist):<br>0.21mg/l                                              |                     |
| <0.036 %     | bronopol (INN); 2-bromo-2-nitropropan-1,3-diol                                         | CAS:52-51-7<br>EC:200-143-0<br>Index:603-085-00-8    | STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H312; Aquatic Chronic 1, H410; Acute Tox. 3, H301; Acute Tox. 3, H331, M-Chronic:10, M-Acute:100                                                                                                                                                                                                           |                     |
| <0.01 %      | etandiol; etilen glikol                                                                | CAS:107-21-1<br>EC:203-473-3                         | Acute Tox. 4, H302; STOT RE 2, H373                                                                                                                                                                                                                                                                                                                                                                     | 01-2119456816-28    |
| <0.0015 %    | 2-oktil-2H-izotiazol-3-on                                                              | CAS:26530-20-1<br>EC:247-761-7<br>Index:613-112-00-5 | Acute Tox. 2, H330; Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Corrosive to the respiratory tract., M-Chronic:100, M-Acute:100<br><br>Specific Concentration Limits:<br>C ≥ 0.0015%: Skin Sens. 1A H317<br><br>Acute Toxicity Estimate:<br>ATE - Oral: 125mg/kg bw<br>ATE - Dermal: 311mg/kg bw |                     |
| <0.0015 %    | reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1) | CAS:55965-84-9<br>Index:613-167-00-5                 | Acute Tox. 2, H330; Acute Tox. 2, H310; Acute Tox. 3, H301; Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317; Aquatic Acute 1, H400; Aquatic                                                                                                                                                                                                                                                  |                     |

Chronic 1, H410, M-Chronic:100,  
M-Acute:100, EUH071

Specific Concentration Limits:  
C ≥ 0.6%: Skin Corr. 1C H314  
0.06% ≤ C < 0.6%: Skin Irrit. 2  
H315  
C ≥ 0.6%: Eye Dam. 1 H318  
0.06% ≤ C < 0.6%: Eye Irrit. 2  
H319  
C ≥ 0.0015%: Skin Sens. 1A H317

|           |                |                                                      |                                                                                                                                                                                       |
|-----------|----------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <0.0015 % | Cinkov piriton | CAS:13463-41-7<br>EC:236-671-3<br>Index:613-333-00-7 | Acute Tox. 2, H330; Acute Tox. 3,<br>H301; STOT RE 1, H372; Eye<br>Dam. 1, H318; Aquatic Acute 1,<br>H400; Aquatic Chronic 1, H410;<br>Repr. 1B, H360, M-Chronic:10, M-<br>Acute:1000 |
|-----------|----------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Acute Toxicity Estimate:  
ATE - Oral: 221 mg/kg bw

|           |                           |                                                     |                                                                                                                                                                                                                            |
|-----------|---------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <0.0015 % | 2-metilizotiazol-3(2H)-on | CAS:2682-20-4<br>EC:220-239-6<br>Index:613-326-00-9 | Acute Tox. 2, H330; Acute Tox. 3,<br>H301; Acute Tox. 3, H311; Skin<br>Corr. 1B, H314; Eye Dam. 1,<br>H318; Skin Sens. 1A, H317;<br>Aquatic Acute 1, H400; Aquatic<br>Chronic 1, H410, M-Chronic:1, M-<br>Acute:10, EUH071 |
|-----------|---------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Specific Concentration Limits:  
C ≥ 0.0015%: Skin Sens. 1A H317

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## 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.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

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## 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**

For containment:  
 Izdelek vsebuje mikroplastike: ne odvrzite izdelka v okolje med uporabo ali odstranjevanjem. Orodja ne čistite pod tekočo vodo.  
 Ostankov izdelka, vode ali drugih pralnih raztopin ne vlivajte v gospodinjske odtoke ali kanalizacijo.

**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.  
 Contaminated 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**

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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

Recommendation(s)

Izdelek vsebuje mikroplastike: ne odvrzite izdelka v okolje med uporabo ali odstranjevanjem. Orodja ne čistite pod tekočo vodo.  
 Ostankov izdelka, vode ali drugih pralnih raztopin ne vlivajte v gospodinjske odtoke ali kanalizacijo.

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)**

Titanium dioxide

CAS: 13463-67-7

ACGIH

Long Term: 2.5 mg/m<sup>3</sup> (8h)  
 Notes: Finescale particles; R ; A3 - LRT irr, pneumoconiosis

NATION Avstrija  
 AL

Long Term: 5 mg/m<sup>3</sup>; Short Term: 10 mg/m<sup>3</sup>  
 Notes: 60(Miw), 2x, MAK, A  
 Source: BGBl. II Nr. 156/2021

NATION Belgija  
 AL

Long Term: 10 mg/m<sup>3</sup>  
 Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATION Bolgarija  
 AL

Long Term: 10 mg/m<sup>3</sup>  
 Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.

NATION Nemčija  
 AL

Long Term: 0.3 mg/m<sup>3</sup>; Short Term: 2.4 mg/m<sup>3</sup>  
 Notes: DFG; Long term and short term: excluding ultrafine particles; respirable fraction; multiplied by the material density;  
 Source: TRGS900

NATION Danska  
 AL

Long Term: 6 mg/m<sup>3</sup>  
 Notes: K  
 Source: BEK nr 2203 af 29/11/2021

|                       |                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------|
| NATION Španija<br>AL  | Long Term: 10 mg/m3<br>Source: LEP 2022                                                                     |
| NATION Estonija<br>AL | Long Term: 5 mg/m3<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                         |
| NATION Francija<br>AL | Long Term: 10 mg/m3<br>Notes: Cancérogène de catégorie 2<br>Source: INRS outil65                            |
| NATION Grčija<br>AL   | Long Term: 10 mg/m3<br>Notes: εισπν.<br>Source: ΦΕΚ 94/A` 13.5.1999                                         |
|                       | Long Term: 5 mg/m3<br>Notes: αναπν.<br>Source: ΦΕΚ 94/A` 13.5.1999                                          |
| NATION Hrvatska<br>AL | 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                                                         |
| NATION Irska<br>AL    | Long Term: 10 mg/m3<br>Source: 2021 Code of Practice                                                        |
|                       | Long Term: 4 mg/m3<br>Source: 2021 Code of Practice                                                         |
| NATION Litva<br>AL    | Long Term: 5 mg/m3<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                         |
| NATION Latvija<br>AL  | Long Term: 10 mg/m3<br>Source: KN325P1                                                                      |
| NATION Norveška<br>AL | Long Term: 5 mg/m3<br>Source: FOR-2021-06-28-2248                                                           |
| NATION Poljska<br>AL  | Long Term: 10 mg/m3<br>Notes: 4), 7)<br>Source: Dz.U. 2018 poz. 1286                                        |
| NATION Romunija<br>AL | Long Term: 10 mg/m3; Short Term: 15 mg/m3<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021             |
| NATION Slovaška<br>AL | Long Term: 5 mg/m3<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                          |
| NATION Švedska<br>AL  | Long Term: 5 mg/m3<br>Notes: 3<br>Source: AFS 2021:3                                                        |
| SUVA Švicar           | Long Term: 3 mg/m3<br>Notes: TWA mg/m3: (a), SSC, Formel / Formal, NIOSH<br>Source: suva.ch/valeurs-limites |

#### PCMR Talc (Mg3H2(SiO3)4)

|                       |       |                                                                                                      |
|-----------------------|-------|------------------------------------------------------------------------------------------------------|
| CAS: 14807-96-6       | ACGIH | Long Term: 2 mg/m3 (8h)<br>Notes: Containing no asbestos fibers\$ E,R, A4 - Pulm fibrosis, pulm func |
| NATION Avstrija<br>AL |       | Long Term: 2 mg/m3<br>Notes: MAK, A<br>Source: BGBl. II Nr. 156/2021                                 |
| NATION Belgija<br>AL  |       | Long Term: 2 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1       |
| NATION Danska<br>AL   |       | Notes: 0, 3 fiber/cm3, K<br>Source: BEK nr 2203 af 29/11/2021                                        |
| NATION Španija<br>AL  |       | Long Term: 2 mg/m3<br>Notes: d, e<br>Source: LEP 2022                                                |
| NATION Finska<br>AL   |       | Notes: 8h: 0.5 kuitua/cm3<br>Source: HTP-ARVOT 2020                                                  |

Long Term: 2 mg/m<sup>3</sup>  
Notes: hengittävää pöly  
Source: HTP-ARVOT 2020

Long Term: 1 mg/m<sup>3</sup>  
Notes: alveolijae  
Source: HTP-ARVOT 2020

NATION Grčija  
AL Long Term: 10 mg/m<sup>3</sup>  
Notes: εισπν.  
Source: ΦΕΚ 94/A` 13.5.1999

Long Term: 2 mg/m<sup>3</sup>  
Notes: avanv.  
Source: ΦΕΚ 94/A` 13.5.1999

NATION Hrvatska  
AL Long Term: 1 mg/m<sup>3</sup>  
Notes: R  
Source: NN 1/2021

NATION Madžarska  
AL Long Term: 2 mg/m<sup>3</sup>  
Notes: Respirable aerosol  
Source: 5/2020. (II. 6.) ITM

NATION Irska  
AL Long Term: 10 mg/m<sup>3</sup>  
Source: 2021 Code of Practice

Long Term: 0.8 mg/m<sup>3</sup>  
Source: 2021 Code of Practice

NATION Latvija  
AL Long Term: 4 mg/m<sup>3</sup>  
Source: KN325P1

NATION Nizozemska  
AL Long Term: 0.25 mg/m<sup>3</sup>  
Source: Arbeidsomstandighedenregeling - Lijst A

NATION Poljska  
AL Long Term: 4 mg/m<sup>3</sup>  
Notes: 4)  
Source: Dz.U. 2018 poz. 1286

Long Term: 1 mg/m<sup>3</sup>  
Notes: 6), 18)  
Source: Dz.U. 2018 poz. 1286

NATION Romunija  
AL Long Term: 2 mg/m<sup>3</sup>  
Notes: fracțiune respirabilă  
Source: Republicarea 1 - nr. 743 din 29 iulie 2021

NATION Švedska  
AL Long Term: 2 mg/m<sup>3</sup>  
Notes: 3  
Source: AFS 2021:3

Long Term: 1 mg/m<sup>3</sup>  
Notes: 3  
Source: AFS 2021:3

SUVA Švicar Long Term: 3 mg/m<sup>3</sup>  
Notes: TWA mg/m<sup>3</sup>: (a), SSC, Formel / Formal, OSHA  
Source: suva.ch/valeurs-limites

Calcium Carbonate  
CAS: 471-34-1

NATION Francija  
AL Long Term: 10 mg/m<sup>3</sup>  
Source: INRS outil65

NATION Hrvatska  
AL Long Term: 10 mg/m<sup>3</sup>  
Notes: U  
Source: NN 1/2021

Long Term: 4 mg/m<sup>3</sup>  
Notes: R  
Source: NN 1/2021

NATION Madžarska  
AL Long Term: 10 mg/m<sup>3</sup>  
Notes: inhalable aerosol  
Source: 5/2020. (II. 6.) ITM

NATION Irska  
AL Long Term: 10 mg/m<sup>3</sup>  
Notes: Inhalable fraction  
Source: 2021 Code of Practice

|                                                                                  |                                                                               |                                                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                  |                                                                               | Long Term: 4 mg/m3<br>Notes: Respirable fraction<br>Source: 2021 Code of Practice                                                                      |
|                                                                                  | NATION Latvija<br>AL                                                          | Long Term: 6 mg/m3<br>Source: KN325P1                                                                                                                  |
|                                                                                  | NATION Poljska<br>AL                                                          | 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                                                 |
| natrijev karbonat<br>CAS: 497-19-8                                               | ITA Češka<br>NATION Romunija<br>AL                                            | Long Term: 5 mg/m3 (8h); Short Term: 10 mg/m3 (15min)<br>Long Term: 1 mg/m3; Short Term: 3 mg/m3<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| Barium sulfate<br>CAS: 7727-43-7                                                 | ACGIH                                                                         | Long Term: 5 mg/m3 (8h)<br>Notes: I, E - Pneumoconiosis                                                                                                |
|                                                                                  | NATION Belgija<br>AL                                                          | Long Term: 5 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                                         |
|                                                                                  | NATION Bolgarija<br>AL                                                        | Long Term: 10 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                                                     |
|                                                                                  | NATION Španija<br>AL                                                          | Long Term: 10 mg/m3<br>Notes: e<br>Source: LEP 2022                                                                                                    |
|                                                                                  | NATION Hrvatska<br>AL                                                         | 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                                                                                                    |
|                                                                                  | NATION Irska<br>AL                                                            | Long Term: 5 mg/m3<br>Source: 2021 Code of Practice                                                                                                    |
|                                                                                  | NATION Slovaška<br>AL                                                         | Long Term: 4 mg/m3<br>Notes: 10)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                                       |
|                                                                                  |                                                                               | Long Term: 1.5 mg/m3<br>Notes: 11)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                                     |
|                                                                                  | WEL- UNITED<br>EH40 KINGDOM OF<br>GREAT<br>BRITAIN AND<br>NORTHERN<br>IRELAND | Long Term: 10 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                               |
|                                                                                  |                                                                               | Long Term: 4 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                |
|                                                                                  | SUVA Švicar                                                                   | Long Term: 3 mg/m3<br>Notes: TWA mg/m3: (a), Formel / Formal<br>Source: suva.ch/valeurs-limites                                                        |
| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy-<br>CAS: 25322-68-3 | NATION Nemčija<br>AL                                                          | Long Term: 200 mg/m3<br>Notes: DFG, Y, E, 2 (II)<br>Source: TRGS 900                                                                                   |
|                                                                                  | NATION Slovaška<br>AL                                                         | Long Term: 1000 mg/m3<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                                                  |
|                                                                                  | SUVA Švicar                                                                   | Long Term: 500 mg/m3<br>Notes: SSC, Mcorp / KG                                                                                                         |

## cinkov oxid

CAS: 1314-13-2

|                        |                                                                                                                                                                                      |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACGIH                  | Long Term: 2 mg/m <sup>3</sup> (8h); Short Term: 10 mg/m <sup>3</sup><br>Notes: R - Metal fume fever                                                                                 |
| NATION Avstrija<br>AL  | Long Term: 5 mg/m <sup>3</sup><br>Notes: MAK, A<br>Source: BGBl. II Nr. 156/2021                                                                                                     |
| NATION Belgija<br>AL   | Long Term: 2 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                        |
| NATION Bolgarija<br>AL | Long Term: 5 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                                     |
| NATION Češka<br>AL     | Long Term: 2 mg/m <sup>3</sup> ; Short Term: Ceiling - 5 mg/m <sup>3</sup><br>Source: Nařízení vlády č. 361-2007 Sb                                                                  |
| NATION Danska<br>AL    | Long Term: 4 mg/m <sup>3</sup><br>Source: BEK nr 2203 af 29/11/2021                                                                                                                  |
| NATION Španija<br>AL   | Long Term: 2 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Notes: d<br>Source: LEP 2022                                                                                    |
| NATION Estonija<br>AL  | Long Term: 5 mg/m <sup>3</sup><br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                                                                      |
| NATION Finska<br>AL    | Long Term: 2 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Source: HTP-ARVOT 2020                                                                                          |
| NATION Francija<br>AL  | Long Term: 5 mg/m <sup>3</sup><br>Source: INRS outil65<br><br>Long Term: 10 mg/m <sup>3</sup><br>Source: INRS outil65                                                                |
| NATION Grčija<br>AL    | Long Term: 5 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Source: ФЕК 94/А` 13.5.1999                                                                                     |
| NATION Hrvatska<br>AL  | Long Term: 2 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Notes: GVI: R<br>Source: NN 1/2021                                                                              |
| NATION Madžarska<br>AL | Long Term: 5 mg/m <sup>3</sup><br>Notes: i, N<br>Source: 5/2020. (II. 6.) ITM rendelet<br><br>Long Term: 5 mg/m <sup>3</sup><br>Notes: i, R<br>Source: 5/2020. (II. 6.) ITM rendelet |
| NATION Irska<br>AL     | Long Term: 2 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Notes: OEL (8-hour reference period) : R<br>Source: 2021 Code of Practice                                       |
| NATION Litva<br>AL     | Long Term: 5 mg/m <sup>3</sup><br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                                                                      |
| NATION Latvija<br>AL   | Long Term: 0.5 mg/m <sup>3</sup><br>Source: KN325P1                                                                                                                                  |
| NATION Norveška<br>AL  | Long Term: 5 mg/m <sup>3</sup><br>Source: FOR-2021-06-28-2248                                                                                                                        |
| NATION Poljska<br>AL   | Long Term: 5 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Notes: 4)<br>Source: Dz.U. 2018 poz. 1286                                                                       |
| NATION Romunija<br>AL  | Long Term: 5 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Notes: (Fumuri)<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                           |
| NATION Slovaška<br>AL  | Long Term: 1 mg/m <sup>3</sup> ; Short Term: 1 mg/m <sup>3</sup><br>Notes: 11)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                       |
| NATION Švedska<br>AL   | Long Term: 5 mg/m <sup>3</sup><br>Notes: 3                                                                                                                                           |

Source: AFS 2021:3

SUVA Švicar

Long Term: 3 mg/m<sup>3</sup>; Short Term: 3 mg/m<sup>3</sup>  
Notes: TWA mg/m<sup>3</sup>: (a), Fimétal / Metallrauch, NIOSH OSHA  
Source: suva.ch/valeurs-limites

#### Magnesium carbonate

CAS: 546-93-0

NATION Belgija  
AL

Long Term: 10 mg/m<sup>3</sup>  
Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATION Francija  
AL

Long Term: 10 mg/m<sup>3</sup>  
Source: INRS outil65

NATION Hrvaška  
AL

Long Term: 10 mg/m<sup>3</sup>  
Notes: U  
Source: NN 1/2021

Long Term: 4 mg/m<sup>3</sup>  
Notes: R  
Source: NN 1/2021

NATION Litva  
AL

Long Term: 10 mg/m<sup>3</sup>  
Notes: F  
Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

SUVA Švicar

Long Term: 3 mg/m<sup>3</sup>  
Notes: TWA mg/m<sup>3</sup>: (a)  
Source: suva.ch/valeurs-limites

#### Quartz (SiO<sub>2</sub>)

CAS: 14808-60-7

ACGIH

Long Term: 0.025 mg/m<sup>3</sup> (8h)  
Notes: R, A2 - Pulm fibrosis, lung cancer

NATION Belgija  
AL

Long Term: 0.1 mg/m<sup>3</sup>  
Notes: C  
Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATION Danska  
AL

Long Term: 0.3 mg/m<sup>3</sup>  
Notes: alveolijae, liite 3  
Source: BEK nr 2203 af 29/11/2021

Long Term: 0.1 mg/m<sup>3</sup>  
Notes: EK  
Source: BEK nr 2203 af 29/11/2021

NATION Španija  
AL

Long Term: 0.3 mg/m<sup>3</sup>  
Notes: Respirable fraction  
Source: LEP 2022

NATION Estonija  
AL

Long Term: 0.1 mg/m<sup>3</sup>  
Notes: 1, C  
Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105

NATION Finska  
AL

Long Term: 0.05 mg/m<sup>3</sup>  
Notes: alveolijae, liite 3  
Source: HTP-ARVOT 2020

NATION Francija  
AL

Long Term: 0.1 mg/m<sup>3</sup>  
Notes: La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.  
Source: INRS outil65, article R. 4412-149 du Code du travail

NATION Madžarska  
AL

Long Term: 0.1 mg/m<sup>3</sup>  
Source: 5/2020. (II. 6.) ITM rendelet

NATION Irska  
AL

Long Term: 0.1 mg/m<sup>3</sup>  
Notes: Respirable fraction  
Source: 2021 Code of Practice

NATION Italija  
AL

Long Term: 0.1 mg/m<sup>3</sup>  
Notes: Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008  
Source: D.lgs. 81/2008, Allegato XLIII

NATION Litva  
AL

Long Term: 0.1 mg/m<sup>3</sup>  
Notes: Žiūrėti 1 priedo 3 punktą.  
Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

NATION Nizozemska  
AL

Long Term: 0.075 mg/m<sup>3</sup>  
Notes: (2)  
Source: Arbeidsomstandighedenregeling - Lijst B1

|                       |                                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATION Norveška<br>AL | Long Term: 0.3 mg/m <sup>3</sup><br>Notes: K 7<br>Source: FOR-2021-06-28-2248                                                                                                    |
|                       | Long Term: 0.05 mg/m <sup>3</sup><br>Notes: K G 7 21<br>Source: FOR-2021-06-28-2248                                                                                              |
| NATION Poljska<br>AL  | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: 6)<br>Source: Dz.U. 2018 poz. 1286                                                                                                    |
| NATION Švedska<br>AL  | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: C, M, 3<br>Source: AFS 2021:3                                                                                                         |
| SUVA Švicar           | Long Term: 0.15 mg/m <sup>3</sup><br>Notes: TWA mg/m <sup>3</sup> : (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites |

3-jodo-2-propinil butilkarbamat; 3-jodoprop-2-in-1-il butilkarbamat

|                 |                        |                                                                                                                                                                                                                                                                                                                 |
|-----------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 55406-53-6 | NATION Nemčija<br>AL   | Long Term: 0.058 mg/m <sup>3</sup> - 0.005 ppm<br>Notes: DFG, Y, Sh, 11, 2 (I)<br>Source: TRGS 900                                                                                                                                                                                                              |
|                 | NATION Slovenija<br>AL | Long Term: 0.058 mg/m <sup>3</sup> - 0.005 ppm; Short Term: 0.116 mg/m <sup>3</sup> - 0.01 ppm<br>Notes: Y<br>Source: UL št. 72, 11. 5. 2021                                                                                                                                                                    |
|                 | SUVA Švicar            | Long Term: 0.12 mg/m <sup>3</sup> - 0.01 ppm; Short Term: 0.24 mg/m <sup>3</sup> - 0.02 ppm<br>Notes: S, SSC, Cholin / Cholin, La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen<br>Source: suva.ch/valeurs-limites |

Dolomite

|                 |                      |                                                                                  |
|-----------------|----------------------|----------------------------------------------------------------------------------|
| CAS: 16389-88-1 | NATION Latvija<br>AL | Long Term: 6 mg/m <sup>3</sup><br>Source: KN325P1                                |
|                 | NATION Poljska<br>AL | Long Term: 10 mg/m <sup>3</sup><br>Notes: 4), 7)<br>Source: Dz.U. 2018 poz. 1286 |

Quarz (SiO<sub>2</sub>)

|                 |                       |                                                                                                                                                                     |
|-----------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 14808-60-7 | ACGIH                 | Long Term: 0.025 mg/m <sup>3</sup> (8h)<br>Notes: R, A2 - Pulm fibrosis, lung cancer                                                                                |
|                 | EU                    | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung cancer. Directive 2017/2398 |
|                 | NATION Avstrija<br>AL | Long Term: 0.05 mg/m <sup>3</sup><br>Notes: MAK, III C, A<br>Source: BGBl. II Nr. 156/2021                                                                          |
|                 | NATION Belgija<br>AL  | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: C<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                            |
|                 | NATION Danska<br>AL   | Long Term: 0.3 mg/m <sup>3</sup><br>Source: BEK nr 2203 af 29/11/2021                                                                                               |
|                 |                       | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: EK<br>Source: BEK nr 2203 af 29/11/2021                                                                                  |
|                 | NATION Španija<br>AL  | Long Term: 0.05 mg/m <sup>3</sup> (8h)<br>Notes: Respirable fraction<br>Source: LEP 2022                                                                            |
|                 | NATION Estonija<br>AL | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: 1, C<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                                    |
|                 | NATION Finska<br>AL   | Long Term: 0.05 mg/m <sup>3</sup><br>Notes: alveolijae, liite 3<br>Source: HTP-ARVOT 2020                                                                           |

|                         |                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATION Francija<br>AL   | Long Term: 0.1 mg/m <sup>3</sup><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<br>AL    | Long Term: 0.1 mg/m <sup>3</sup><br>Source: NN 1/2021                                                                                                                                |
| NATION Madžarska<br>AL  | Long Term: 0.1 mg/m <sup>3</sup> (8h)<br>Notes: Respirable aerosol<br>Source: 5/2020. (II. 6.) ITM rendelet                                                                          |
| NATION Irska<br>AL      | Long Term: 0.1 mg/m <sup>3</sup> (8h)<br>Notes: Respirable fraction<br>Source: 2021 Code of Practice                                                                                 |
| NATION Italija<br>AL    | Long Term: 0.1 mg/m <sup>3</sup> (8h)<br>Notes: Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008<br>Source: D.lgs. 81/2008, Allegato XLIII              |
| NATION Litva<br>AL      | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: Žiūrėti 1 priedo 3 punktą.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                               |
| NATION Nizozemska<br>AL | Long Term: 0.075 mg/m <sup>3</sup><br>Notes: (2)<br>Source: Arbeidsomstandighedenregeling - Lijst B1                                                                                 |
| NATION Norveška<br>AL   | Long Term: 0.3 mg/m <sup>3</sup><br>Notes: K 7<br>Source: FOR-2021-06-28-2248                                                                                                        |
|                         | Long Term: 0.05 mg/m <sup>3</sup><br>Notes: K G 7 21<br>Source: FOR-2021-06-28-2248                                                                                                  |
| NATION Poljska<br>AL    | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: 6)<br>Source: Dz.U. 2018 poz. 1286                                                                                                        |
| NATION Švedska<br>AL    | Long Term: 0.1 mg/m <sup>3</sup><br>Notes: C, M, 3<br>Source: AFS 2021:3                                                                                                             |
| SUVA Švicar             | Long Term: 0.15 mg/m <sup>3</sup><br>Notes: TWA mg/m <sup>3</sup> : (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites     |

amonijak ... %

CAS: 1336-21-6

|                     |                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------|
| NATION Finska<br>AL | Long Term: 14 mg/m <sup>3</sup> - 20 ppm; Short Term: 36 mg/m <sup>3</sup> - 50 ppm<br>Source: HTP-ARVOT 2020 |
|---------------------|---------------------------------------------------------------------------------------------------------------|

Propane-1,2-diol

CAS: 57-55-6

|                       |                                                                                 |
|-----------------------|---------------------------------------------------------------------------------|
| NATION Hrvaška<br>AL  | Long Term: 474 mg/m <sup>3</sup> - 150 ppm<br>Source: NN 1/2021                 |
|                       | Long Term: 10 mg/m <sup>3</sup><br>Source: NN 1/2021                            |
| NATION Irska<br>AL    | Long Term: 470 mg/m <sup>3</sup> - 150 ppm<br>Source: 2021 Code of Practice     |
|                       | Long Term: 10 mg/m <sup>3</sup><br>Source: 2021 Code of Practice                |
| NATION Litva<br>AL    | Long Term: 7 mg/m <sup>3</sup><br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| NATION Latvija<br>AL  | Long Term: 7 mg/m <sup>3</sup><br>Source: KN325P1                               |
| NATION Norveška<br>AL | Long Term: 79 mg/m <sup>3</sup> - 25 ppm<br>Source: FOR-2021-06-28-2248         |
| NATION Poljska<br>AL  | Long Term: 100 mg/m <sup>3</sup><br>Notes: 4)<br>Source: Dz.U. 2018 poz. 1286   |

Propylidynetrimethanol

|                                    |                                                                     |                                                                                                                                                                                                                                                                                         |
|------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 77-99-6                       | NATION Litva<br>AL                                                  | Short Term: Ceiling - 5 ppm<br>Notes: Ū<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                                                                                                                                                                |
|                                    | NATION Švedska<br>AL                                                | Long Term: 5 mg/m <sup>3</sup><br>Source: AFS 2021:3                                                                                                                                                                                                                                    |
| 2,2'-oksidietanol; dietilen glikol |                                                                     |                                                                                                                                                                                                                                                                                         |
| CAS: 111-46-6                      | NATION Avstrija<br>AL                                               | Long Term: 44 mg/m <sup>3</sup> - 10 ppm; Short Term: 176 mg/m <sup>3</sup> - 40 ppm<br>Notes: 15(Miw), 4x, MAK<br>Source: GKV, BGBl. II Nr. 156/2021                                                                                                                                   |
|                                    | NATION Nemčija<br>AL                                                | Long Term: 44 mg/m <sup>3</sup> - 10 ppm<br>Notes: DFG, Y, 11, 4(II)<br>Source: TRGS 900                                                                                                                                                                                                |
|                                    | NATION Danska<br>AL                                                 | Long Term: 11 mg/m <sup>3</sup> - 2.5 ppm<br>Source: BEK nr 2203 af 29/11/2021                                                                                                                                                                                                          |
|                                    | NATION Estonija<br>AL                                               | Long Term: 45 mg/m <sup>3</sup> - 10 ppm; Short Term: 90 mg/m <sup>3</sup> - 20 ppm<br>Notes: A<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                                                                                                        |
|                                    | NATION Hrvatska<br>AL                                               | Long Term: 101 mg/m <sup>3</sup> - 23 ppm<br>Source: NN 1/2021                                                                                                                                                                                                                          |
|                                    | NATION Irska<br>AL                                                  | Long Term: 100 mg/m <sup>3</sup> - 23 ppm<br>Source: 2021 Code of Practice                                                                                                                                                                                                              |
|                                    | NATION Litva<br>AL                                                  | Long Term: 45 mg/m <sup>3</sup> - 10 ppm; Short Term: 90 mg/m <sup>3</sup> - 20 ppm<br>Notes: O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                                                                                                        |
|                                    | NATION Latvija<br>AL                                                | Long Term: 10 mg/m <sup>3</sup><br>Source: KN325P1                                                                                                                                                                                                                                      |
|                                    | NATION Poljska<br>AL                                                | Long Term: 10 mg/m <sup>3</sup><br>Notes: 4)<br>Source: Dz.U. 2018 poz. 1286                                                                                                                                                                                                            |
|                                    | NATION Rumunija<br>AL                                               | Long Term: 500 mg/m <sup>3</sup> - 115 ppm; Short Term: 800 mg/m <sup>3</sup> - 184 ppm<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                                                                                                                           |
|                                    | NATION Slovakska<br>AL                                              | Long Term: 44 mg/m <sup>3</sup> - 10 ppm; Short Term: 90 mg/m <sup>3</sup> - 20 ppm<br>Source: 355 NARIADENIE VLADY z 10. mája 2006                                                                                                                                                     |
|                                    | NATION Slovenija<br>AL                                              | Long Term: 44 mg/m <sup>3</sup> - 10 ppm; Short Term: 176 mg/m <sup>3</sup> - 40 ppm<br>Notes: Y<br>Source: UL št. 72, 11. 5. 2021                                                                                                                                                      |
|                                    | NATION Švedska<br>AL                                                | Long Term: 45 mg/m <sup>3</sup> - 10 ppm; Short Term: 90 mg/m <sup>3</sup> - 20 ppm<br>Notes: H, V<br>Source: AFS 2021:3                                                                                                                                                                |
| WEL-<br>EH40                       | UNITED<br>KINGDOM OF<br>GREAT<br>BRITAIN AND<br>NORTHERN<br>IRELAND | Long Term: 101 mg/m <sup>3</sup> - 23 ppm<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                          |
|                                    | SUVA Švicar                                                         | Long Term: 44 mg/m <sup>3</sup> - 10 ppm; Short Term: 176 mg/m <sup>3</sup> - 40 ppm<br>Notes: SSC, La substance peut être présente sous forme de vapeur et d'aérosol en même temps /<br>Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen<br>Source: suva.ch/valeurs-limites |
| Magnesium oxide                    |                                                                     |                                                                                                                                                                                                                                                                                         |
| CAS: 1309-48-4                     | ACGIH                                                               | Long Term: 10 mg/m <sup>3</sup> (8h)<br>Notes: I, A4 - URT, metal fume fever                                                                                                                                                                                                            |
|                                    | NATION Avstrija<br>AL                                               | Long Term: 10 mg/m <sup>3</sup> ; Short Term: 20 mg/m <sup>3</sup><br>Notes: 60(Miw), 2x, MAK, E<br>Source: BGBl. II Nr. 156/2021                                                                                                                                                       |
|                                    |                                                                     | Long Term: 5 mg/m <sup>3</sup> ; Short Term: 10 mg/m <sup>3</sup><br>Notes: 60(Miw), 2x, MAK, A<br>Source: BGBl. II Nr. 156/2021                                                                                                                                                        |
|                                    |                                                                     | Long Term: 5 mg/m <sup>3</sup> ; Short Term: 20 mg/m <sup>3</sup>                                                                                                                                                                                                                       |

|                        |                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
|                        | Notes: 15(Miw), 4x, MAK, A<br>Source: BGBl. II Nr. 156/2021                                                                                |
| NATION Belgija<br>AL   | Long Term: 10 mg/m <sup>3</sup><br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                |
| NATION Bolgarija<br>AL | Long Term: 10 mg/m <sup>3</sup><br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                             |
| NATION Češka<br>AL     | Long Term: 5 mg/m <sup>3</sup> ; Short Term: Ceiling - 10 mg/m <sup>3</sup><br>Source: Nařízení vlády č. 361-2007 Sb                       |
| NATION Danska<br>AL    | Long Term: 6 mg/m <sup>3</sup><br>Source: BEK nr 2203 af 29/11/2021                                                                        |
| NATION Španija<br>AL   | Long Term: 10 mg/m <sup>3</sup><br>Source: LEP 2022                                                                                        |
| NATION Francija<br>AL  | Long Term: 10 mg/m <sup>3</sup><br>Source: INRS outil65                                                                                    |
| NATION Grčija<br>AL    | Long Term: 10 mg/m <sup>3</sup><br>Notes: εισπν.<br>Source: ΦΕΚ 94/Α` 13.5.1999                                                            |
|                        | Long Term: 5 mg/m <sup>3</sup><br>Notes: αναπν.<br>Source: ΦΕΚ 94/Α` 13.5.1999                                                             |
| NATION Hrvatska<br>AL  | Long Term: 10 mg/m <sup>3</sup><br>Notes: U<br>Source: NN 1/2021                                                                           |
|                        | Long Term: 4 mg/m <sup>3</sup><br>Notes: R<br>Source: NN 1/2021                                                                            |
| NATION Madžarska<br>AL | Long Term: 6 mg/m <sup>3</sup><br>Notes: resp, i, R<br>Source: 5/2020. (II. 6.) ITM rendelet                                               |
| NATION Irska<br>AL     | Long Term: 10 mg/m <sup>3</sup> (8h); Short Term: 4 mg/m <sup>3</sup><br>Notes: Respirable fraction<br>Inhalable fraction                  |
|                        | Long Term: 5 mg/m <sup>3</sup> (8h)<br>Notes: Fume                                                                                         |
|                        | Long Term: 10 mg/m <sup>3</sup> (8h)<br>Notes: Inhalable fraction                                                                          |
| NATION Litva<br>AL     | Long Term: 4 mg/m <sup>3</sup><br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                            |
| NATION Norveška<br>AL  | Long Term: 10 mg/m <sup>3</sup><br>Notes: 1<br>Source: FOR-2021-06-28-2248                                                                 |
| NATION Poljska<br>AL   | Long Term: 10 mg/m <sup>3</sup><br>Notes: 4)<br>Source: Dz.U. 2018 poz. 1286                                                               |
| NATION Romunija<br>AL  | Long Term: 5 mg/m <sup>3</sup> ; Short Term: 15 mg/m <sup>3</sup><br>Notes: (Fumuri)<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| NATION Slovaška<br>AL  | Long Term: 4 mg/m <sup>3</sup><br>Notes: 11)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                               |
|                        | Long Term: 10 mg/m <sup>3</sup><br>Notes: 10)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                              |
| SUVA Švicar            | Long Term: 3 mg/m <sup>3</sup><br>Notes: TWA mg/m <sup>3</sup> : (a), SSC, NIOSH<br>Source: suva.ch/valeurs-limites                        |
|                        | Long Term: 3 mg/m <sup>3</sup><br>Notes: TWA mg/m <sup>3</sup> : (a), NIOSH                                                                |

propan-2-ol; izopropil alkohol; izopropanol

CAS: 67-63-0

ACGIH

Long Term: 200 ppm (8h); Short Term: 400 ppm  
Notes: A4, BEI - Eye and URT irr, CNS impairNATION Avstrija  
ALLong Term: 500 mg/m<sup>3</sup> - 200 ppm; Short Term: 2000 mg/m<sup>3</sup> - 800 ppm  
Notes: 15(Miw), 4x, MAK  
Source: BGBl. II Nr. 156/2021NATION Belgija  
ALLong Term: 500 mg/m<sup>3</sup> - 200 ppm; Short Term: 1000 mg/m<sup>3</sup> - 400 ppm  
Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1NATION Bolgarija  
ALLong Term: 980 mg/m<sup>3</sup>; Short Term: 1225 mg/m<sup>3</sup>  
Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.NATION Češka  
ALLong Term: 500 mg/m<sup>3</sup>; Short Term: Ceiling - 1000 mg/m<sup>3</sup>  
Notes: I  
Source: Nařízení vlády č. 361-2007 SbNATION Nemčija  
ALLong Term: 500 mg/m<sup>3</sup> - 200 ppm  
Notes: DFG, Y, 2(II)  
Source: TRGS 900NATION Danska  
ALLong Term: 490 mg/m<sup>3</sup> - 200 ppm  
Source: BEK nr 2203 af 29/11/2021NATION Španija  
ALLong Term: 500 mg/m<sup>3</sup> - 200 ppm; Short Term: 1000 mg/m<sup>3</sup> - 400 ppm  
Notes: VLB®, s  
Source: LEP 2022NATION Estonija  
ALLong Term: 350 mg/m<sup>3</sup> - 150 ppm; Short Term: 600 mg/m<sup>3</sup> - 250 ppm  
Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105NATION Finska  
ALLong Term: 500 mg/m<sup>3</sup> - 200 ppm; Short Term: 620 mg/m<sup>3</sup> - 250 ppm  
Source: HTP-ARVOT 2020NATION Francija  
ALShort Term: 980 mg/m<sup>3</sup> - 400 ppm  
Source: INRS outil65NATION Grčija  
ALLong Term: 980 mg/m<sup>3</sup> - 400 ppm; Short Term: 1225 mg/m<sup>3</sup> - 500 ppm  
Source: ФЕК 94/А` 13.5.1999NATION Hrvaška  
ALLong Term: 999 mg/m<sup>3</sup> - 400 ppm; Short Term: 1250 mg/m<sup>3</sup> - 500 ppm  
Source: NN 1/2021NATION Madžarska  
ALLong Term: 500 mg/m<sup>3</sup>; Short Term: 1000 mg/m<sup>3</sup>  
Notes: b, i, R  
Source: 5/2020. (II. 6.) ITM rendeletNATION Irska  
ALLong Term: 200 ppm; Short Term: 400 ppm  
Notes: Sk  
Source: 2021 Code of PracticeNATION Litva  
ALLong Term: 350 mg/m<sup>3</sup> - 150 ppm; Short Term: 600 mg/m<sup>3</sup> - 250 ppm  
Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389NATION Latvija  
ALLong Term: 350 mg/m<sup>3</sup>; Short Term: 600 mg/m<sup>3</sup>  
Source: KN325P1NATION Norveška  
ALLong Term: 245 mg/m<sup>3</sup> - 100 ppm  
Source: FOR-2021-06-28-2248NATION Poljska  
ALLong Term: 900 mg/m<sup>3</sup>; Short Term: 1200 mg/m<sup>3</sup>  
Notes: skóra  
Source: Dz.U. 2018 poz. 1286NATION Romunija  
ALLong Term: 200 mg/m<sup>3</sup> - 81 ppm; Short Term: 500 mg/m<sup>3</sup> - 203 ppm  
Source: Republicarea 1 - nr. 743 din 29 iulie 2021NATION Slovaška  
ALLong Term: 500 mg/m<sup>3</sup> - 200 ppm; Short Term: 1000 mg/m<sup>3</sup> - 400 ppm  
Source: 355 NARIADENIE VLÁDY z 10. mája 2006NATION Slovenija  
ALLong Term: 500 mg/m<sup>3</sup> - 200 ppm; Short Term: 1000 mg/m<sup>3</sup> - 400 ppm  
Notes: Y, BAT  
Source: UL št. 72, 11. 5. 2021NATION Švedska  
ALLong Term: 350 mg/m<sup>3</sup> - 150 ppm; Short Term: 600 mg/m<sup>3</sup> - 250 ppm  
Notes: V  
Source: AFS 2021:3

|                                   |                                                      |                                                                                                                                                                                                  |
|-----------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEL-EH40                          | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 999 mg/m <sup>3</sup> - 400 ppm; Short Term: 1250 mg/m <sup>3</sup> - 500 ppm<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                    |
|                                   | SUVA Švicar                                          | Long Term: 500 mg/m <sup>3</sup> - 200 ppm; Short Term: 1000 mg/m <sup>3</sup> - 400 ppm<br>Notes: SSC, B, VRS Foie SNC Yeux / OAW Laber ZNS Auge, INRS NIOSH<br>Source: suva.ch/valeurs-limites |
| Kaolin                            |                                                      |                                                                                                                                                                                                  |
| CAS: 1332-58-7                    | ACGIH                                                | Long Term: 2 mg/m <sup>3</sup> (8h)<br>Notes: E,R, A4 - Pneumoconiosis                                                                                                                           |
|                                   | NATION Belgija AL                                    | Long Term: 2 mg/m <sup>3</sup><br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                                                                       |
|                                   | NATION Danska AL                                     | Long Term: 2 mg/m <sup>3</sup><br>Source: BEK nr 2203 af 29/11/2021                                                                                                                              |
|                                   | NATION Finska AL                                     | Long Term: 2 mg/m <sup>3</sup><br>Notes: alveolijae<br>Source: HTP-ARVOT 2020                                                                                                                    |
|                                   | NATION Hrvatska AL                                   | Long Term: 2 mg/m <sup>3</sup><br>Notes: R<br>Source: NN 1/2021                                                                                                                                  |
|                                   | NATION Irska AL                                      | Long Term: 2 mg/m <sup>3</sup><br>Source: 2021 Code of Practice                                                                                                                                  |
|                                   | NATION Poljska AL                                    | Long Term: 10 mg/m <sup>3</sup><br>Notes: 4), 7)<br>Source: Dz.U. 2018 poz. 1286                                                                                                                 |
|                                   | SUVA Švicar                                          | Long Term: 3 mg/m <sup>3</sup><br>Notes: TWA mg/m <sup>3</sup> : (a), Fib pulm / Lungenfibrose<br>Source: suva.ch/valeurs-limites                                                                |
| natrijev hidroksid kavstična soda |                                                      |                                                                                                                                                                                                  |
| CAS: 1310-73-2                    | ACGIH                                                | Short Term: Ceiling - 2 mg/m <sup>3</sup><br>Notes: URT, eye, and skin irr                                                                                                                       |
|                                   | NATION Avstrija AL                                   | Long Term: 2 mg/m <sup>3</sup> ; Short Term: Ceiling - 4 mg/m <sup>3</sup><br>Notes: 5(Mow), 8x, MAK, E<br>Source: BGBl. II Nr. 156/2021                                                         |
|                                   | NATION Belgija AL                                    | Long Term: 2 mg/m <sup>3</sup><br>Notes: M<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                                                           |
|                                   | NATION Bolgarija AL                                  | Long Term: 2 mg/m <sup>3</sup><br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                                                                                    |
|                                   | NATION Češka AL                                      | Long Term: 1 mg/m <sup>3</sup> ; Short Term: Ceiling - 2 mg/m <sup>3</sup><br>Notes: I<br>Source: Nařízení vlády č. 361-2007 Sb                                                                  |
|                                   | NATION Danska AL                                     | Short Term: Ceiling - 2 mg/m <sup>3</sup><br>Notes: L<br>Source: BEK nr 2203 af 29/11/2021                                                                                                       |
|                                   | NATION Španija AL                                    | Short Term: 2 mg/m <sup>3</sup><br>Source: LEP 2022                                                                                                                                              |
|                                   | NATION Estonija AL                                   | Long Term: 1 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup><br>Notes: *<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                                    |
|                                   | NATION Finska AL                                     | Short Term: Ceiling - 2 mg/m <sup>3</sup><br>Notes: kattoarvo<br>Source: HTP-ARVOT 2020                                                                                                          |
|                                   | NATION Francija AL                                   | Long Term: 2 mg/m <sup>3</sup><br>Source: INRS outil65                                                                                                                                           |

|                         |                                                                                                                                                                                           |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATION Grčija<br>AL     | Long Term: 2 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup><br>Source: ΦΕΚ 94/Α` 13.5.1999                                                                                           |
| NATION Hrvatska<br>AL   | Short Term: 2 mg/m <sup>3</sup><br>Source: NN 1/2021                                                                                                                                      |
| NATION Mađarska<br>AL   | Long Term: 1 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup><br>Notes: m, N<br>Source: 5/2020. (II. 6.) ITM rendelet                                                                  |
| NATION Irska<br>AL      | Short Term: 2 mg/m <sup>3</sup><br>Source: 2021 Code of Practice                                                                                                                          |
| NATION Litva<br>AL      | Short Term: Ceiling - 2 mg/m <sup>3</sup><br>Notes: Ū<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                                                    |
| NATION Latvija<br>AL    | Long Term: 0.5 mg/m <sup>3</sup><br>Source: KN325P1                                                                                                                                       |
| NATION Norveška<br>AL   | Short Term: Ceiling - 2 mg/m <sup>3</sup><br>Notes: T<br>Source: FOR-2021-06-28-2248                                                                                                      |
| NATION Poljska<br>AL    | Long Term: 0.5 mg/m <sup>3</sup> ; Short Term: 1 mg/m <sup>3</sup><br>Source: Dz.U. 2018 poz. 1286                                                                                        |
| NATION Romunijska<br>AL | Long Term: 1 mg/m <sup>3</sup> ; Short Term: 3 mg/m <sup>3</sup>                                                                                                                          |
| NATION Slovaška<br>AL   | Long Term: 2 mg/m <sup>3</sup><br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                                                                            |
| NATION Švedska<br>AL    | Long Term: 1 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup><br>Notes: 3<br>Source: AFS 2021:3                                                                                        |
| SUVA Švicarska          | Long Term: 2 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup><br>Notes: TWA mg/m <sup>3</sup> : (i), SSC, VRS Peau Yeux / OAW Haut Auge, NIOSH OSHA<br>Source: suva.ch/valeurs-limites |

etandiol; etilen glikol

CAS: 107-21-1

|                        |                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACGIH                  | Short Term: 10 mg/m <sup>3</sup><br>Notes: I, H, A4 - URT irr                                                                                                                                               |
| EU                     | Long Term: 52 mg/m <sup>3</sup> - 20 ppm (8h); Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Skin                                                                                                    |
| NATION Avstrija<br>AL  | Long Term: 26 mg/m <sup>3</sup> - 10 ppm; Short Term: Ceiling - 52 mg/m <sup>3</sup> - 20 ppm<br>Notes: 5(Mow), 8x, MAK, H<br>Source: BGBl. II Nr. 156/2021                                                 |
| NATION Belgija<br>AL   | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: D, M<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                             |
| NATION Bolgarija<br>AL | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Кожа<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                          |
| NATION Ciper<br>AL     | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: δέρμα<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATION Češka<br>AL     | Long Term: 50 mg/m <sup>3</sup> ; Short Term: Ceiling - 100 mg/m <sup>3</sup><br>Notes: D<br>Source: Nařízení vlády č. 361-2007 Sb                                                                          |
| NATION Nemčija<br>AL   | Long Term: 26 mg/m <sup>3</sup> - 10 ppm<br>Notes: DFG, EU, H, Y, 11, 2(I)<br>Source: TRGS 900                                                                                                              |
| NATION Danska<br>AL    | Long Term: 26 mg/m <sup>3</sup> - 10 ppm<br>Notes: EH<br>Source: BEK nr 2203 af 29/11/2021<br><br>Long Term: 10 mg/m <sup>3</sup><br>Source: BEK nr 2203 af 29/11/2021                                      |

|                          |                                                                                                                                                                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATION Španija<br>AL     | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: vía dérmica, VLI<br>Source: LEP 2022                                                                                                                                          |
| NATION Estonija<br>AL    | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: A, 18<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105                                                                                                        |
| NATION Finska<br>AL      | Long Term: 50 mg/m <sup>3</sup> - 20 ppm; Short Term: 100 mg/m <sup>3</sup> - 40 ppm<br>Notes: iho<br>Source: HTP-ARVOT 2020                                                                                                                                                 |
| NATION Francija<br>AL    | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Risque de pénétration percutanée<br>Source: INRS outil65, arrêté du 30-06-2004 modifié                                                                                        |
| NATION Grčija<br>AL      | Long Term: 125 mg/m <sup>3</sup> - 50 ppm; Short Term: 125 mg/m <sup>3</sup> - 50 ppm<br>Source: ΦΕΚ 94/A` 13.5.1999                                                                                                                                                         |
| NATION Madžarska<br>AL   | Long Term: 52 mg/m <sup>3</sup> ; Short Term: 104 mg/m <sup>3</sup><br>Notes: b, i, EU1, N<br>Source: 5/2020. (II. 6.) ITM rendelet                                                                                                                                          |
| NATION Irska<br>AL       | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Sk, IOELV<br>Source: 2021 Code of Practice                                                                                                                                    |
| NATION Italija<br>AL     | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Cute<br>Source: D.lgs. 81/2008, Allegato XXXVIII                                                                                                                              |
| NATION Litva<br>AL       | Long Term: 25 mg/m <sup>3</sup> - 10 ppm; Short Term: 50 mg/m <sup>3</sup> - 20 ppm<br>Notes: O, Šis RD taikomas bendrai garų ir aerozolio koncentracijai.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389                                                                  |
| NATION Luksemburg<br>AL  | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Peau<br>Source: Mémorial A n.226 du 22 mars 2021                                                                                                                              |
| NATION Latvija<br>AL     | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Āda<br>Source: KN325P1                                                                                                                                                        |
| NATION Malta<br>AL       | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: skin<br>Source: S.L.424.24                                                                                                                                                    |
| NATION Nizozemska<br>AL  | Long Term: 52 mg/m <sup>3</sup> ; Short Term: 104 mg/m <sup>3</sup><br>Notes: H<br>Source: Arbeidsomstandighedenregeling - Lijst A<br><br>Long Term: 10 mg/m <sup>3</sup> ; Short Term: 104 mg/m <sup>3</sup><br>Notes: H<br>Source: Arbeidsomstandighedenregeling - Lijst A |
| NATION Norveška<br>AL    | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: H E 5 S<br>Source: FOR-2021-06-28-2248                                                                                                                                        |
| NATION Poljska<br>AL     | Long Term: 15 mg/m <sup>3</sup> ; Short Term: 50 mg/m <sup>3</sup><br>Notes: skóra<br>Source: Dz.U. 2018 poz. 1286                                                                                                                                                           |
| NATION Portugalska<br>AL | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: Cutânea<br>Source: Decreto-Lei n.º 1/2021                                                                                                                                     |
| NATION Romunija<br>AL    | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: P, Dir. 2000/39<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                                                                                         |
| NATION Slovaška<br>AL    | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: K<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006                                                                                                                             |
| NATION Slovenija<br>AL   | Long Term: 52 mg/m <sup>3</sup> - 20 ppm; Short Term: 104 mg/m <sup>3</sup> - 40 ppm<br>Notes: K, Y, EU1<br>Source: UL št. 72, 11. 5. 2021                                                                                                                                   |

NATION Švedska  
AL Long Term: 25 mg/m<sup>3</sup> - 10 ppm; Short Term: 104 mg/m<sup>3</sup> - 40 ppm  
Notes: H, 26  
Source: AFS 2021:3

WEL- UNITED Long Term: 10 mg/m<sup>3</sup>  
EH40 KINGDOM OF Notes: Sk  
GREAT Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)  
BRITAIN AND  
NORTHERN  
IRELAND

Long Term: 52 mg/m<sup>3</sup> - 20 ppm; Short Term: 104 mg/m<sup>3</sup> - 40 ppm  
Notes: Sk  
Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

SUVA Švicar Long Term: 26 mg/m<sup>3</sup> - 10 ppm; Short Term: 52 mg/m<sup>3</sup> - 20 ppm  
Notes: R/H, SSC, VRS Yeux / OAW Auge, La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen  
Source: suva.ch/valeurs-limites

#### 2-oktil-2H-izotiazol-3-on

CAS: 26530-20-1 NATION Avstrija  
AL Long Term: 0.05 mg/m<sup>3</sup>; Short Term: Ceiling - 0.05 mg/m<sup>3</sup>  
Notes: Mow, MAK, H, S, E  
Source: BGBl. II Nr. 156/2021

NATION Nemčija  
AL Long Term: 0.05 mg/m<sup>3</sup>  
Notes: DFG, H, Y, E, 2(I)  
Source: TRGS 900

NATION Slovenija  
AL Long Term: 0.05 mg/m<sup>3</sup>; Short Term: 0.1 mg/m<sup>3</sup>  
Notes: K, Y, (I)  
Source: UL št. 72, 11. 5. 2021

SUVA Švicar Long Term: 0.05 mg/m<sup>3</sup>; Short Term: 0.1 mg/m<sup>3</sup>  
Notes: TWA mg/m<sup>3</sup>: (i), R/H, S, VRS / OAW  
Source: suva.ch/valeurs-limites

#### reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1)

CAS: 55965-84-9 NATION Avstrija  
AL Long Term: 0.05 mg/m<sup>3</sup>  
Notes: MAK, Sh  
Source: GKV, BGBl. II Nr. 156/2021

NATION Nemčija  
AL Long Term: 0.2 mg/m<sup>3</sup>; Short Term: 0.4 mg/m<sup>3</sup>  
Notes: DFG; Long term and short term: inhalable fraction  
Source: TRGS900

SUVA Švicar Long Term: 0.2 mg/m<sup>3</sup>; Short Term: 0.4 mg/m<sup>3</sup>  
Notes: TWA mg/m<sup>3</sup>: (i), S, SSC, VRS Peau Yeux / OAW Haut Auge  
Source: suva.ch/valeurs-limites

#### 2-metilizotiazol-3(2H)-on

CAS: 2682-20-4 NATION Avstrija  
AL Long Term: 0.05 mg/m<sup>3</sup>  
Notes: MAK, Sh  
Source: GKV, BGBl. II Nr. 156/2021

NATION Slovenija  
AL Long Term: 0.05 mg/m<sup>3</sup> (8h)

#### Benzyl acetate

CAS: 140-11-4 ACGIH Long Term: 10 ppm (8h)  
Notes: A4 - URT irr

NATION Belgija  
AL Long Term: 62 mg/m<sup>3</sup> - 10 ppm  
Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1

NATION Danska  
AL Long Term: 61 mg/m<sup>3</sup> - 10 ppm  
Source: BEK nr 2203 af 29/11/2021

NATION Španija  
AL Long Term: 62 mg/m<sup>3</sup> - 10 ppm  
Source: LEP 2022

NATION Irska  
AL Long Term: 10 ppm  
Source: 2021 Code of Practice

NATION Litva  
AL Long Term: 5 mg/m<sup>3</sup>  
Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389

|                                       |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                       | NATION Latvija<br>AL                                                       | Long Term: 5 mg/m3<br>Source: KN325P1                                                                                                                                                                                                                                                                                                                                                        |
|                                       | NATION Romuniya<br>AL                                                      | Long Term: 50 mg/m3 - 8 ppm; Short Term: 80 mg/m3 - 13 ppm<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021                                                                                                                                                                                                                                                                             |
| oktametilciklotetrasiloksan           |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                              |
| CAS: 556-67-2                         | NATION Avstrija<br>AL                                                      | Notes: f<br>Source: BGBl. II Nr. 156/2021                                                                                                                                                                                                                                                                                                                                                    |
| 2,6-di-tert-butyl-p-cresol            |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                              |
| CAS: 128-37-0                         | ACGIH                                                                      | Long Term: 2 mg/m3 (8h)<br>Notes: IFV, A4 - URT irr                                                                                                                                                                                                                                                                                                                                          |
|                                       | NATION Avstrija<br>AL                                                      | Long Term: 10 mg/m3<br>Notes: MAK<br>Source: GKV, BGBl. II Nr. 156/2021                                                                                                                                                                                                                                                                                                                      |
|                                       | NATION Belgija<br>AL                                                       | Long Term: 2 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1                                                                                                                                                                                                                                                                                               |
|                                       | NATION Bolgarija<br>AL                                                     | Long Term: 10 mg/m3; Short Term: 50 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г.                                                                                                                                                                                                                                                                                                     |
|                                       | NATION Nemčija<br>AL                                                       | Long Term: 10 mg/m3<br>Notes: DFG, Y, 11, E, 4 (II)<br>Source: TRGS 900                                                                                                                                                                                                                                                                                                                      |
|                                       | NATION Danska<br>AL                                                        | Long Term: 10 mg/m3<br>Source: BEK nr 2203 af 29/11/2021                                                                                                                                                                                                                                                                                                                                     |
|                                       | NATION Španija<br>AL                                                       | Long Term: 10 mg/m3<br>Source: LEP 2022                                                                                                                                                                                                                                                                                                                                                      |
|                                       | NATION Finska<br>AL                                                        | Long Term: 10 mg/m3; Short Term: 20 mg/m3<br>Source: HTP-ARVOT 2020                                                                                                                                                                                                                                                                                                                          |
|                                       | NATION Francija<br>AL                                                      | Long Term: 10 mg/m3<br>Source: INRS outil65                                                                                                                                                                                                                                                                                                                                                  |
|                                       | NATION Grčija<br>AL                                                        | Long Term: 10 mg/m3<br>Source: ФЕК 94/А` 13.5.1999                                                                                                                                                                                                                                                                                                                                           |
|                                       | NATION Hrvatska<br>AL                                                      | Long Term: 10 mg/m3<br>Source: NN 1/2021                                                                                                                                                                                                                                                                                                                                                     |
|                                       | NATION Irska<br>AL                                                         | Long Term: 2 mg/m3<br>Source: 2021 Code of Practice                                                                                                                                                                                                                                                                                                                                          |
|                                       | NATION Slovenija<br>AL                                                     | Long Term: 10 mg/m3; Short Term: 40 mg/m3<br>Notes: Y, (I)<br>Source: UL št. 72, 11. 5. 2021                                                                                                                                                                                                                                                                                                 |
|                                       | WEL- UNITED<br>EH40 KINGDOM OF GREAT<br>BRITAIN AND<br>NORTHERN<br>IRELAND | Long Term: 10 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                                                                                     |
|                                       | SUVA Švicar                                                                | Long Term: 10 mg/m3; Short Term: 40 mg/m3<br>Notes: TWA mg/m3: (i), C1#B, SSC, Foie / Leber, Pas de risque accru de cancer si la VME est respectée. La substance peut être présente sous forme de vapeur et d'aérosol en même temps / Kein erhöhtes Krebsrisiko bei Einhalten des MAK-Werts. Der Stoff kann gleichzeitig als Dampf und Aerosol vorliegen.<br>Source: suva.ch/valeurs-limites |
| Pyridine-2-thiol 1-oxide, sodium salt |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                              |
| CAS: 3811-73-2                        | NATION Avstrija<br>AL                                                      | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>Notes: 15(Miw), 4x, MAK, H<br>Source: BGBl. II Nr. 156/2021                                                                                                                                                                                                                                                                                       |
|                                       | NATION Nemčija<br>AL                                                       | Long Term: 0.2 mg/m3<br>Notes: DFG, H, Y, E, 2(II)<br>Source: TRGS 900                                                                                                                                                                                                                                                                                                                       |
|                                       | NATION Danska<br>AL                                                        | Long Term: 1 mg/m3<br>Notes: H                                                                                                                                                                                                                                                                                                                                                               |

|                        |                                                                                                                                                                    |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATION Slovenija<br>AL | Long Term: 1 mg/m <sup>3</sup> ; Short Term: 2 mg/m <sup>3</sup><br>Notes: K, (I)<br>Source: UL št. 72, 11. 5. 2021                                                |
| SUVA Švicar            | Long Term: 0.2 mg/m <sup>3</sup> ; Short Term: 0.4 mg/m <sup>3</sup><br>Notes: TWA mg/m <sup>3</sup> : (i), R/H, SSC, SNP / PNS<br>Source: suva.ch/valeurs-limites |

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

3-jodo-2-propinil butilkarbamat; 3-jodoprop-2-in-1-il butilkarbamat

CAS: 55406-53-6 Exposure Route: Fresh Water; PNEC Limit: 500 ng/L

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 530 ng/L

Exposure Route: Marine water; PNEC Limit: 46 ng/L

Exposure Route: Intermittent releases (marine water); PNEC Limit: 530 ng/L

Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 440 ng/L

Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 440 ng/L

1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on

CAS: 2634-33-5 Exposure Route: Fresh Water; PNEC Limit: 4.03 mg/m<sup>3</sup>Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.1 mg/m<sup>3</sup>

Exposure Route: Marine water; PNEC Limit: 403 ng/L

Exposure Route: Intermittent releases (marine water); PNEC Limit: 110 ng/L

Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 1.03 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 49.9 µg/kg

Exposure Route: Usedline morske vode; PNEC Limit: 4.99 µg/kg

Exposure Route: Zemlja; PNEC Limit: 3 mg/kg

bronopol (INN); 2-bromo-2-nitropropan-1,3-diol

CAS: 52-51-7 Exposure Route: Fresh Water; PNEC Limit: 10 mg/m<sup>3</sup>Exposure Route: Intermittent releases (fresh water); PNEC Limit: 2.5 mg/m<sup>3</sup>

Exposure Route: Marine water; PNEC Limit: 800 ng/L

Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 430 mg/m<sup>3</sup>Exposure Route: Freshwater sediments; PNEC Limit: 41 mg/m<sup>3</sup>

Exposure Route: Usedline morske vode; PNEC Limit: 3.28 µg/kg

Exposure Route: Zemlja; PNEC Limit: 500 µg/kg

etandiol; etilen glikol

CAS: 107-21-1 Exposure Route: Fresh Water; PNEC Limit: 10 mg/l

Exposure Route: Intermittent releases (fresh water); PNEC Limit: 10 mg/l

Exposure Route: Marine water; PNEC Limit: 1 mg/l

Exposure Route: Intermittent releases (marine water); PNEC Limit: 10 mg/l

Exposure Route: Mikroorganizmi v čiščenju odplak; PNEC Limit: 199.5 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 37 mg/kg

Exposure Route: Usedline morske vode; PNEC Limit: 3.7 mg/kg

Exposure Route: Zemlja; PNEC Limit: 1.53 mg/kg

2-oktil-2H-izotiazol-3-on

CAS: 26530-20-1 Exposure Route: Fresh Water; PNEC Limit: 2.2 mg/m<sup>3</sup>Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.22 mg/m<sup>3</sup>

Exposure Route: Marine water; PNEC Limit: 220 ng/L

Exposure Route: Intermittent releases (marine water); PNEC Limit: 122 ng/L

Exposure Route: Freshwater sediments; PNEC Limit: 47.5 µg/kg

Exposure Route: Usedline morske vode; PNEC Limit: 47.5 µg/kg

Exposure Route: Zemlja; PNEC Limit: 8.2 µg/kg

reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1)

CAS: 55965-84-9 Exposure Route: Fresh Water; PNEC Limit: 3.39 mg/m<sup>3</sup>Exposure Route: Intermittent releases (fresh water); PNEC Limit: 3.39 mg/m<sup>3</sup>

Exposure Route: Marine water; PNEC Limit: 3.39 mg/m<sup>3</sup>  
Exposure Route: Intermittent releases (marine water); PNEC Limit: 3.39 mg/m<sup>3</sup>  
Exposure Route: Mikroorganizmi v čiščenju odpad; PNEC Limit: 230 mg/m<sup>3</sup>  
Exposure Route: Freshwater sediments; PNEC Limit: 27 mg/m<sup>3</sup>  
Exposure Route: Usedline morske vode; PNEC Limit: 27 mg/m<sup>3</sup>  
Exposure Route: Zemlja; PNEC Limit: 10 mg/m<sup>3</sup>

#### Cinkov piriton

CAS: 13463-41-7 Exposure Route: Fresh Water; PNEC Limit: 90 ng/L  
Exposure Route: Marine water; PNEC Limit: 90 ng/L  
Exposure Route: Mikroorganizmi v čiščenju odpad; PNEC Limit: 10 mg/m<sup>3</sup>  
Exposure Route: Freshwater sediments; PNEC Limit: 9.5 µg/kg  
Exposure Route: Usedline morske vode; PNEC Limit: 9.5 µg/kg  
Exposure Route: Zemlja; PNEC Limit: 1.02 mg/kg

#### 2-metilizotiazol-3(2H)-on

CAS: 2682-20-4 Exposure Route: Fresh Water; PNEC Limit: 3.39 mg/m<sup>3</sup>  
Exposure Route: Intermittent releases (fresh water); PNEC Limit: 3.39 mg/m<sup>3</sup>  
Exposure Route: Marine water; PNEC Limit: 3.39 mg/m<sup>3</sup>  
Exposure Route: Intermittent releases (marine water); PNEC Limit: 3.39 mg/m<sup>3</sup>  
Exposure Route: Mikroorganizmi v čiščenju odpad; PNEC Limit: 230 mg/m<sup>3</sup>  
Exposure Route: Zemlja; PNEC Limit: 47.1 µg/kg

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

##### 3-jodo-2-propinil butilkarbamat; 3-jodoprop-2-in-1-il butilkarbamat

CAS: 55406-53-6 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 23 µg/m<sup>3</sup>  
  
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 70 µg/m<sup>3</sup>  
  
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 1.16 mg/kg/day  
  
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 1.16 mg/kg/day  
  
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 2 mg/kg

##### 1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on

CAS: 2634-33-5 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 6.81 mg/kg/day; Consumer: 1.2 mg/kg/day  
  
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 966 µg/kg; Consumer: 345 µg/kg

##### bronopol (INN); 2-bromo-2-nitropropan-1,3-diol

CAS: 52-51-7 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 4.1 mg/kg/day; Consumer: 1.2 mg/kg/day  
  
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 12.3 mg/kg/day  
  
Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 4.2 mg/kg/day; Consumer: 1.3 mg/kg/day  
  
Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 4.2 mg/kg/day; Consumer: 1.3 mg/kg/day  
  
Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 2.3 mg/kg; Consumer: 1.4 mg/kg  
  
Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Worker Professional: 7 mg/kg  
  
Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 350 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 1.1 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects  
Worker Professional: 0.013 mg/cm<sup>2</sup>; Consumer: 0.008 mg/cm<sup>2</sup>

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects  
Worker Professional: 0.013 mg/cm<sup>2</sup>; Consumer: 0.008 mg/cm<sup>2</sup>

etandiol; etilen glikol

CAS: 107-21-1 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 35 mg/kg/day; Consumer: 7 mg/kg/day

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 106 mg/kg; Consumer: 53 mg/kg

reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1)

CAS: 55965-84-9 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 20 µg/m<sup>3</sup>; Consumer: 20 µg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 40 µg/m<sup>3</sup>; Consumer: 20 µg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 90 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 110 µg/kg

Cinkov piriton

CAS: 13463-41-7 Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Professional: 10 µg/kg

2-metilizotiazol-3(2H)-on

CAS: 2682-20-4 Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects  
Worker Professional: 21 µg/m<sup>3</sup>; Consumer: 21 µg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Professional: 43 µg/m<sup>3</sup>; Consumer: 43 µg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 27 µg/kg

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 53 µg/kg

## 8.2. Exposure controls

Eye protection:

Očala s stransko zaščito.(EN166)

Protection for skin:

Kemična zaščitna oblačila. Zaščitna obutev

Protection for hands:

Nitrilkavčuk.

Respiratory protection:

N.A.

Thermal Hazards:

Ni predvideno, če se uporablja, kot je predvideno

Environmental exposure controls:

Izdelek vsebuje mikroplastike: ne odvrzite izdelka v okolje med uporabo ali odstranjevanjem. Orodja ne čistite pod tekočo vodo. Ostankov izdelka, vode ali drugih pralnih raztopin ne vlivajte v gospodinske odtoke ali kanalizacijo.

---

## SECTION 9: Physical and chemical properties

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

|                 |                           |
|-----------------|---------------------------|
| Physical state: | Liquid                    |
| Colour:         | V skladu z opisom izdelka |
| Odour:          | odourless                 |
| pH:             | >8.40<8.80                |

|                                                           |                                                                        |
|-----------------------------------------------------------|------------------------------------------------------------------------|
| 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:                                              | > 93°C                                                                 |
| Lower and upper explosion limit:                          | Not Relevant<br>Notes: Se ne uporablja, ker zmes ni vnetljiva          |
| Relative vapour density:                                  | N.A.                                                                   |
| Vapour pressure:                                          | N.A.                                                                   |
| Density and/or relative density:                          | 1.26 g/cm <sup>3</sup>                                                 |
| Solubility in water:                                      | Se meša                                                                |
| 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><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 =                       | 0.41%; 5.19g/L                                                         |
| <b>Particle characteristics:</b>                          |                                                                        |
| 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.

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## 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><br>Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation     | Not classified<br><br>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:

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|                |                                      |                                                                                                   |
|----------------|--------------------------------------|---------------------------------------------------------------------------------------------------|
| CAS: 1314-13-2 | a) acute toxicity                    | LD50 Oral Rat > 5000 mg/kg<br>LC50 Inhalation Rat > 5.7 mg/l 4h<br>LD50 Skin Rat > 2000 mg/kg 24h |
|                | b) skin corrosion/irritation         | Skin Irritant Rabbit Negative                                                                     |
|                | c) serious eye damage/irritation     | Eye Irritant Rabbit No                                                                            |
|                | d) respiratory or skin sensitisation | Skin Sensitization Guineapig Negative                                                             |
|                | f) carcinogenicity                   | Genotoxicity Negative                                                                             |
|                | g) reproductive toxicity             | No Observed Adverse Effect Level Oral Rat = 7.2 mg/kg                                             |

3-jodo-2-propinil butilkarbamat; 3-jodoprop-2-in-1-il butilkarbamat

|                 |                                  |                                                                                                                                                       |
|-----------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 55406-53-6 | a) acute toxicity                | ATE - Inhalation (Dust/mist): 0.17 mg/l<br>LD50 Oral Rat = 1056 mg/kg<br>LC50 Inhalation Dust Rat > 6.89 mg/l 4h<br>LD50 Skin Rabbit > 2000 mg/kg 24h |
|                 | b) skin corrosion/irritation     | Skin Irritant Rabbit Negative 4h                                                                                                                      |
|                 | c) serious eye damage/irritation | Eye Irritant Rabbit Yes                                                                                                                               |
|                 | f) carcinogenicity               | Genotoxicity Negative<br>Carcinogenicity Oral Negative                                                                                                |
|                 | g) reproductive toxicity         | Reproductive Toxicity Oral Rat Negative                                                                                                               |

Quarz (SiO2)

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

1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on

|                |                                      |                                                                                                                                |
|----------------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| CAS: 2634-33-5 | a) acute toxicity                    | ATE - Oral: 450 mg/kg bw<br>ATE - Inhalation (Dust/mist): 0.21 mg/l<br>LD50 Oral Rat = 670 mg/kg<br>LD50 Skin Rat > 2000 mg/kg |
|                | b) skin corrosion/irritation         | Skin Irritant Rabbit Negative                                                                                                  |
|                | c) serious eye damage/irritation     | Eye Corrosive Positive                                                                                                         |
|                | d) respiratory or skin sensitisation | Skin Sensitization Guineapig Positive                                                                                          |
|                | f) carcinogenicity                   | Genotoxicity Rat Negative                                                                                                      |
|                | g) reproductive toxicity             | No Observed Adverse Effect Level Oral Rat = 112 mg/kg                                                                          |

bronopol (INN); 2-bromo-2-nitropropan-1,3-diol

|              |                                      |                                                                                                               |
|--------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------|
| CAS: 52-51-7 | a) acute toxicity                    | LD50 Oral Rat = 305 mg/kg<br>LC50 Inhalation of aerosol Rat >= 0.59 mg/l 4h<br>LD50 Skin Rat > 2000 mg/kg 24h |
|              | b) skin corrosion/irritation         | Skin Irritant Rabbit Positive 4h                                                                              |
|              | c) serious eye damage/irritation     | Eye Irritant Rabbit Yes                                                                                       |
|              | d) respiratory or skin sensitisation | Skin Sensitization Guinea pig Negative                                                                        |
|              | f) carcinogenicity                   | Genotoxicity Negative<br>Carcinogenicity Oral Rat Negative                                                    |
|              | g) reproductive toxicity             | No Observed Adverse Effect Level Oral Rat 200                                                                 |
|              |                                      |                                                                                                               |

etandiol; etilen glikol

|               |                                      |                                                                                                            |
|---------------|--------------------------------------|------------------------------------------------------------------------------------------------------------|
| CAS: 107-21-1 | a) acute toxicity                    | LD50 Oral Rat = 7712 mg/kg<br>LC50 Inhalation of aerosol Rat > 2.5 mg/l 6h<br>LD50 Skin Mouse > 3500 mg/kg |
|               | b) skin corrosion/irritation         | Skin Irritant Rabbit Negative                                                                              |
|               | c) serious eye damage/irritation     | Eye Irritant Rabbit No 24h                                                                                 |
|               | d) respiratory or skin sensitisation | Skin Sensitization Guinea pig Negative                                                                     |
|               | f) carcinogenicity                   | Genotoxicity Rat Negative<br>Carcinogenicity Negative                                                      |
|               | g) reproductive toxicity             | No Observed Adverse Effect Level Oral Rat > 1000 mg/kg                                                     |
|               |                                      |                                                                                                            |

2-oktil-2H-izotiazol-3-on

|                 |                                      |                                                                                                                                                                |
|-----------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 26530-20-1 | a) acute toxicity                    | ATE - Oral: 125 mg/kg bw<br>ATE - Dermal: 311 mg/kg bw<br>LD50 Oral Rat = 125 mg/kg<br>LC50 Inhalation Mist Rat = 0.27 mg/l 4h<br>LD50 Skin Rabbit = 311 mg/kg |
|                 | b) skin corrosion/irritation         | Skin Irritant Rabbit Positive                                                                                                                                  |
|                 | c) serious eye damage/irritation     | Eye Irritant Rabbit Yes                                                                                                                                        |
|                 | d) respiratory or skin sensitisation | Skin Sensitization Guinea pig Positive                                                                                                                         |
|                 |                                      |                                                                                                                                                                |
|                 |                                      |                                                                                                                                                                |
|                 |                                      |                                                                                                                                                                |

reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1)

|                 |                                      |                                                                                                |
|-----------------|--------------------------------------|------------------------------------------------------------------------------------------------|
| CAS: 55965-84-9 | a) acute toxicity                    | LD50 Oral Rat = 69 mg/kg<br>LD50 Skin Rabbit = 141 mg/kg<br>LC50 Inhalation Rat = 0.33 mg/l 4h |
|                 | b) skin corrosion/irritation         | Skin Irritant Rabbit Positive                                                                  |
|                 | c) serious eye damage/irritation     | Eye Corrosive Rabbit Positive                                                                  |
|                 | d) respiratory or skin sensitisation | Skin Sensitization Positive                                                                    |
|                 | f) carcinogenicity                   | Genotoxicity Negative<br>Carcinogenicity Skin Negative                                         |
|                 | g) reproductive toxicity             | No Observed Adverse Effect Level Oral Rat = 22.7 mg/kg                                         |
|                 |                                      |                                                                                                |

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|                 |                   |                                                                                                                                    |
|-----------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------|
| CAS: 13463-41-7 | a) acute toxicity | ATE - Oral: 221 mg/kg bw<br>LD50 Oral Rat = 269 mg/kg<br>LC50 Inhalation Dust Rat = 0.14 mg/l 4h<br>LD50 Skin Rat > 2000 mg/kg 24h |
|                 |                   |                                                                                                                                    |
|                 |                   |                                                                                                                                    |
|                 |                   |                                                                                                                                    |
|                 |                   |                                                                                                                                    |

- b) skin corrosion/irritation Skin Irritant Rabbit Negative 4h
- c) serious eye damage/irritation Eye Irritant Rabbit Yes
- d) respiratory or skin sensitisation Skin Sensitization Guinea pig Negative
- f) carcinogenicity Genotoxicity Negative  
Carcinogenicity Oral Rat = 0.5 mg/kg  
Carcinogenicity Skin = 5 mg/kg
- g) reproductive toxicity No Observed Adverse Effect Level Oral Rat = 1.4 mg/kg

2-metilizotiazol-3(2H)-on

- CAS: 2682-20-4
- a) acute toxicity LC50 Inhalation of aerosol Rat = 0.1 mg/l 4h  
LD50 Oral Rat = 120 mg/kg  
LD50 Skin Rat = 242 mg/kg 24h
  - b) skin corrosion/irritation Skin Corrosive Rabbit Positive 4h
  - c) serious eye damage/irritation Eye Corrosive Rabbit Positive
  - d) respiratory or skin sensitisation Skin Sensitization Guinea pig Positive
  - f) carcinogenicity Genotoxicity Rat Negative  
Carcinogenicity Oral Rat Negative
  - g) reproductive toxicity Reproductive Toxicity Oral Rat = 200 ppm

## 11.2. Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

#### List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

#### List of Eco-Toxicological properties of the components

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- CAS: 1314-13-2
- a) Aquatic acute toxicity: LC50 Fish Oncorhynchus Mykiss = 0.169 mg/L 96h
  - b) Aquatic chronic toxicity: NOEC Fish Cyprinodontidae, Cyprinidae, Salmonidae and Cottidae = 0.044 mg/L
  - a) Aquatic acute toxicity: EC50 Ceriodaphnia dubia = 0.147 mg/L
  - b) Aquatic chronic toxicity: NOEC aquatic invertebrates = 0.014 mg/L
  - a) Aquatic acute toxicity: IC50 Algae Selenastrum capricornutum = 0.136 mg/L
  - b) Aquatic chronic toxicity: NOEC Algae = 0.06 mg/L
  - c) Bacteria toxicity: NOEC Sludge activated sludge = 100 µg/L
  - d) Terrestrial toxicity: EC10 Worm Lumbricus terrestris = 1634 mg/kg
  - d) Terrestrial toxicity: EC10 Folsomia candida = 14.6 mg/kg

3-jodo-2-propinil butilkarbamat; 3-jodoprop-2-in-1-il butilkarbamat

- CAS: 55406-53-6
- a) Aquatic acute toxicity: LC50 Fish Sheepshead minnow = 0.067 mg/L 96h
  - b) Aquatic chronic toxicity: NOEC Fish Pimephales promelas = 8.4 µg/L
  - a) Aquatic acute toxicity: LC50 Daphnia magna = 0.645 mg/L 48h
  - b) Aquatic chronic toxicity: NOEC Daphnia magna = 49.9 µg/L
  - a) Aquatic acute toxicity: LC50 Algae Desmodesmus subspicatus = 53 µg/L 72h
  - a) Aquatic acute toxicity: LC50 Sludge activated sludge = 44 mg/L 3h
  - e) Plant toxicity: LC50 Avena sativa = 4.92 mg/kg

1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on

CAS: 2634-33-5 a) Aquatic acute toxicity: LC50 Fish *Oncorhynchus mykiss* = 2.15 mg/L 96h  
 a) Aquatic acute toxicity: EC50 *Daphnia magna* = 2.9 mg/L 48h  
 a) Aquatic acute toxicity: EC50 Algae green alga *Selenastrum capricornutum* freshwater algae = 110 µg/L  
 d) Terrestrial toxicity: EC50 Worm *Eisenia fetida* > 410.6 mg/kg  
 d) Terrestrial toxicity: EC10 soil microorganisms = 263.7 mg/kg  
 a) Aquatic acute toxicity: NOEC Sludge activated sludge 10.3 mg/L 3h  
 e) Plant toxicity: LC50 *Triticum aestivum* = 200 mg/kg

bronopol (INN); 2-bromo-2-nitropropan-1,3-diol

CAS: 52-51-7 a) Aquatic acute toxicity: LC50 Fish *Lepomis macrochirus* = 37.5 mg/L 96h  
 b) Aquatic chronic toxicity: NOEC Fish *Oncorhynchus mykiss* = 21.5 mg/L  
 a) Aquatic acute toxicity: EC50 *Daphnia magna* = 1.4 mg/L 48h  
 b) Aquatic chronic toxicity: NOEC *Daphnia magna* = 0.27 mg/L  
 a) Aquatic acute toxicity: NOEC Algae *Skeletonema costatum* = 0.08 mg/L 72h  
 a) Aquatic acute toxicity: EC20 Sludge activated sludge = 2 mg/L  
 d) Terrestrial toxicity: LC50 Worm *Eisenia foetida* > 500 mg/kg  
 d) Terrestrial toxicity: EC50 soil microorganisms = 679 mg/kg

etandiol; etilen glikol

CAS: 107-21-1 a) Aquatic acute toxicity: LC50 Fish *Pimephales promelas* = 72860 mg/L 96h  
 b) Aquatic chronic toxicity: NOEC Fish = 15380 mg/L  
 b) Aquatic chronic toxicity: NOEC *Ceriodaphnia dubia* = 8590 mg/L  
 a) Aquatic acute toxicity: NOEC Algae *Pseudokirchnerella subcapitata* = 100 mg/L 72h

2-oktil-2H-izotiazol-3-on

CAS: 26530-20-1 a) Aquatic acute toxicity: LC50 Fish freshwater fish = 0.122 mg/L  
 b) Aquatic chronic toxicity: EC10 Fish = 0.022 mg/L  
 a) Aquatic acute toxicity: EC50 freshwater invertebrates = 0.181 mg/L  
 b) Aquatic chronic toxicity: EC10 freshwater invertebrates = 0.035 mg/L  
 LC50 Algae freshwater algae = 0.15 mg/L

reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1)

CAS: 55965-84-9 a) Aquatic acute toxicity: LC50 Fish *Oncorhynchus mykiss* = 0.19 mg/L 96h  
 b) Aquatic chronic toxicity: NOEC Fish *Danio rerio* = 0.02 mg/L  
 a) Aquatic acute toxicity: LC50 *Daphnia magna* = 0.16 mg/L 48h  
 b) Aquatic chronic toxicity: NOEC *Daphnia magna* = 0.1 mg/L  
 a) Aquatic acute toxicity: EC50 Algae *Skeletonema costatum* = 0 mg/L 96h  
 a) Aquatic acute toxicity: EC50 Sludge activated sludge = 4.5 mg/L 3h  
 d) Terrestrial toxicity: LC50 Worm *Eisenia fetida* = 613 mg/kg  
 e) Plant toxicity: NOEC *Trifolium pratense*, *Oryza sativa*, *Brassica napus* = 1000 mg/L

Cinkov pirition

CAS: 13463-41-7 a) Aquatic acute toxicity: LC50 Fish *Pimephales promelas* = 2.6 µg/L 96h  
 a) Aquatic acute toxicity: LC50 *Daphnia magna* = 8.2 µg/L  
 a) Aquatic acute toxicity: EC50 Algae *Navicula pelliculosa* = 3 µg/L  
 b) Aquatic chronic toxicity: NOEC Fish *Pimephales promelas* = 1.22 µg/L  
 b) Aquatic chronic toxicity: EC50 *Lemna gibba* = 9.6 µg/L  
 d) Terrestrial toxicity: LC50 *Folsomia candida* = 822 mg/kg  
 e) Plant toxicity: NOEC Tomato, Cucumber, Lettuce, Soybean, Cabbage, Carrot, Oat > 0.49 µg/L  
 d) Terrestrial toxicity: LC50 Avian Northern Bobwhite = 60 mg/kg  
 d) Terrestrial toxicity: NOEC Avian Northern Bobwhite = 31.2 mg/kg

2-metilizotiazol-3(2H)-on

CAS: 2682-20-4 a) Aquatic acute toxicity: LC50 Fish *Oncorhynchus mykiss* = 4.77 mg/L 96h  
 b) Aquatic chronic toxicity: NOEC Fish *Oncorhynchus mykiss* = 4.93 mg/L  
 a) Aquatic acute toxicity: LC50 *Daphnia magna* = 0.93 mg/L 48h  
 b) Aquatic chronic toxicity: EC10 *Daphnia magna* = 0.04 mg/L

- a) Aquatic acute toxicity: EC50 Algae *Selenastrum capricornutum* = 0.1 mg/L 72h  
a) Aquatic acute toxicity: EC50 Sludge activated sludge of a predominantly domestic sewage = 41 mg/L 3h  
b) Aquatic chronic toxicity: EC50 freshwater sediment = 50 mg/kg

## 12.2. Persistence and degradability

3-jodo-2-propinil butilkarbamat; 3-jodoprop-2-in-1-il butilkarbamat

CAS: 55406-53-6 Non-readily biodegradable Test: Oxygen consumption  
Notes: EU Method C.4-D (Determination of the "Ready" Biodegradability - Manometric Respirometry Test)

1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on

CAS: 2634-33-5 Non-readily biodegradable Test: CO2 production  
Notes: OECD Guideline 301C

bronopol (INN); 2-bromo-2-nitropropan-1,3-diol

CAS: 52-51-7 Readily biodegradable Notes: OECD guideline 301B

etandiol; etilen glikol

CAS: 107-21-1 Readily biodegradable Test: Dissolved organic carbon; Value: 90  
Notes: 10days

2-oktil-2H-izotiazol-3-on

CAS: 26530-20-1 Non-readily biodegradable

reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1)

CAS: 55965-84-9 Non-readily biodegradable

Cinkov pirition

CAS: 13463-41-7 Non-readily biodegradable Test: CO2 production  
Notes: OECD 301B CO2evolution

2-metilizotiazol-3(2H)-on

CAS: 2682-20-4 Non-readily biodegradable Test: CO2 production  
Notes: OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

## 12.3. Bioaccumulative potential

1,2-benzizotiazol-3(2H)-on; 1,2-benzizotiazolin-3-on

CAS: 2634-33-5 Bioaccumulative Test: BCF - Bioconcentration factor; Value: 6.62

bronopol (INN); 2-bromo-2-nitropropan-1,3-diol

CAS: 52-51-7 Bioaccumulative Test: BCF - Bioconcentration factor

2-oktil-2H-izotiazol-3-on

CAS: 26530-20-1 Bioaccumulative Test: BCF - Bioconcentration factor; Value: 19.21  
Notes: L/kg ww

reakcijska zmes 5-kloro-2-metil-2h-izotiazol-3-ona in 2-metil-2h-izotiazol-3-ona (3:1)

CAS: 55965-84-9 Bioaccumulative Test: BCF - Bioconcentration factor; Value: 54  
Notes: ≤ 54

Cinkov pirition

CAS: 13463-41-7 Bioaccumulative Test: BCF - Bioconcentration factor; Value: 1.4

2-metilizotiazol-3(2H)-on

CAS: 2682-20-4 Bioaccumulative Test: BCF - Bioconcentration factor; Value: 5.75  
Notes: carcass

Bioaccumulative Test: BCF - Bioconcentration factor; Value: 48.1  
Notes: viscera

## 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  $\geq 0.1\%$

#### 12.7. Other adverse effects

N.A.

---

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Če je mogoče, predelajte. Ravnavajte 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 odpad

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

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

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

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

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

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

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

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

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

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

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

Regulation (EU) n. 2024/197 (ATP 21 CLP)

Regulation (EU) n. 2024/2865

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, 78

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.

Concentration of synthetic polymer microparticles: 4.185%

Polymer identity: Polymers of propylene or of other olefins, in primary forms

Restrictions related to the substances contained: 30, 40, 70, 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.**

Razred 3: izjemno nevarna.

#### **German Lagerklasse according to TRGS 510:**

LGK 10

SVHC Substances:

No SVHC substances present in concentration  $\geq 0.1\%$

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

(ready to use)

Volatile Organic compounds - VOCs = 0.41 %

Volatile Organic compounds - VOCs = 5.19 g/L

#### **UREDBA (EU) No 528/2012:**

Označevanje proizvoda je v skladu z 58. členom Uredbe EU št. 528/2012 in kasnejšimi spremembami.

snovi, vključene v Uredba (EU) n. 528/2012 (o dostopnosti na trgu in uporabi biocidnih proizvodov): Nomenclature IUPAC: Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6) (Mixture of CMIT/MIT)

Nomenclature BPR: C(M)IT/MIT (3:1)

CAS number: 55965-84-9

Product-type 6: Preservatives for products during storage

Assessment status: Approved

IZVEDBENA UREDBA KOMISIJE (EU) 2016/131 ; Nomenclature IUPAC: 1,2-benzisothiazol-3(2H)-one

Nomenclature BPR: BIT

CAS number: 2634-33-5

Product-type 6: Preservatives for products during storage

Assessment status: Approved

Commission Implementing Regulation (EU) 2025/929; Nomenclature IUPAC: 2-methyl-2H-isothiazol-3-one

Nomenclature BPR: MIT

CAS number: 2682-20-4

Product-type 6: Preservatives for products during storage

Assessment status: Approved.

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

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

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

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

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

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

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

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

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2023/707

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

Regulation (EU) n. 2024/2564 (ATP 22 CLP)

Regulation (EU) n. 2025/1222 (ATP 23 CLP)

Commission Implementing Regulation (EU) 2025/1257; Nomenclature IUPAC: 3-iodo-2-propynyl butylcarbamate  
 Nomenclature BPR: IPBC  
 CAS number: 55406-53-6  
 Product-type 6: Preservatives for products during storage  
 Assessment status: Approved EU 1037/2013  
 Commission Implementing Regulation  
 Product-type 7: Film preservatives  
 Assessment status: Initial application for approval in progress. Competent authority evaluation  
 Product-type 8: Film preservatives  
 Assessment status: Approved  
 Commission Implementing Regulation EU 2015/1728

## 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:

cinkov oksid  
 etandiol; etilen glikol

## SECTION 16: Other information

| Code | Description                                                        |
|------|--------------------------------------------------------------------|
| H301 | Toxic if swallowed.                                                |
| H302 | Harmful if swallowed.                                              |
| H310 | Fatal in contact with skin.                                        |
| H311 | Toxic in contact with skin.                                        |
| H314 | Causes severe skin burns and eye damage.                           |
| H315 | Causes skin irritation.                                            |
| H317 | May cause an allergic skin reaction.                               |
| H318 | Causes serious eye damage.                                         |
| H319 | Causes serious eye irritation.                                     |
| H330 | Fatal if inhaled.                                                  |
| H372 | Causes damage to organs through prolonged or repeated exposure.    |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life.                                        |
| H410 | Very toxic to aquatic life with long lasting effects.              |
| H412 | Harmful to aquatic life with long lasting effects.                 |

| Code         | Hazard class and hazard category | Description                                                    |
|--------------|----------------------------------|----------------------------------------------------------------|
| 3.1/2/Dermal | Acute Tox. 2                     | Acute toxicity (dermal), Category 2                            |
| 3.1/2/Inhal  | Acute Tox. 2                     | Acute toxicity (inhalation), Category 2                        |
| 3.1/3/Dermal | Acute Tox. 3                     | Acute toxicity (dermal), Category 3                            |
| 3.1/3/Oral   | Acute Tox. 3                     | Acute toxicity (oral), Category 3                              |
| 3.1/4/Oral   | Acute Tox. 4                     | Acute toxicity (oral), Category 4                              |
| 3.2/1        | Skin Corr. 1                     | Skin corrosion, Category 1                                     |
| 3.2/1B       | Skin Corr. 1B                    | Skin corrosion, Category 1B                                    |
| 3.2/1C       | Skin Corr. 1C                    | Skin corrosion, Category 1C                                    |
| 3.2/2        | Skin Irrit. 2                    | Skin irritation, Category 2                                    |
| 3.3/1        | Eye Dam. 1                       | Serious eye damage, Category 1                                 |
| 3.3/2        | Eye Irrit. 2                     | Eye irritation, Category 2                                     |
| 3.4.2/1A     | Skin Sens. 1A                    | Skin Sensitisation, Category 1A                                |
| 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 |
| 4.1/A1       | Aquatic Acute 1                  | Acute aquatic hazard, category 1                               |
| 4.1/C1       | Aquatic Chronic 1                | Chronic (long term) aquatic hazard, category 1                 |
| 4.1/C3       | Aquatic Chronic 3                | Chronic (long term) aquatic hazard, category 3                 |
| EUH071       |                                  | EUH071                                                         |

**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**

Aquatic Chronic 3, H412

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 6: Accidental release measures
- 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 15: Regulatory information
- SECTION 16: Other information

# Scenarij izpostavljenosti

## Ethane-1,2-diol

### Scenarij izpostavljenosti, 09/08/2021

| Identiteta snovi        |                  |
|-------------------------|------------------|
|                         | Ethane-1,2-diol  |
| št.CAS                  | 107-21-1         |
| Št. INDEKSA             | 603-027-00-1     |
| št.EINECS               | 203-473-3        |
| Registracijska številka | 01-2119456816-28 |

### Kazalo

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

## 1. ES 1

Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9a, PC9b)

**1.1 NASLOVNI ODSTAVEK**

|                                |                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Ime scenarija izpostavljenosti | Uporaba pri premazih - Uporaba za trde penaste mase, premaze, lepila in tesnila                                     |
| Datum - revizija               | 09/08/2021 - 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            | Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a) - Polnila, kiti, mavci, modelirna glina (PC9b) |

**Scenarij, ki prispeva Okolje**

|     |       |
|-----|-------|
| CS1 | ERC8d |
|-----|-------|

**Scenarij, ki prispeva Delojemalec**

|                                                |        |
|------------------------------------------------|--------|
| CS2 Prenosi materiala                          | PROC8a |
| CS3 Nanašanje z valjem in čopičem              | PROC10 |
| CS4 Nanašanje z valjem, pršenjem in polivanjem | PROC11 |
| CS5 Redčenje koncentratov in ravnanje z njimi  | PROC19 |

**1.2 Pogoji uporabe z vplivom na izpostavitve****1.2. CS1: Scenarij, ki prispeva Okolje (ERC8d)**

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Kategorije sproščanja v okolje | Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, zunanja) (ERC8d) |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|

**Lastnosti izdelka (proizvoda)****Fizikalna oblika izdelka:**

Tekoč

**Koncentracija substance v produktu:**

Obsega delež snovi v izdelku do 1 %.

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

Dnevna količina na lokacijo = 5479 kg

**Tip izločanja:** Kontinuirano izločanje**Dnevi emisij:** 365 dnevi na leto**Tehnični in organizacijski pogoji in ukrepi****Kontrolni ukrepi za preprečevanje izpustov**

|                               |                                                                                |
|-------------------------------|--------------------------------------------------------------------------------|
| Uporabljena čistilna naprava. | Zrak - najmanjša učinkovitost: = 95 %<br>Voda - najmanjša učinkovitost: = 87 % |
|-------------------------------|--------------------------------------------------------------------------------|

**Pogoji in meritve v zvezi z obdelavo odpadkov (vključno z odpadki izdelka)****Ravnanje z odpadki**

Zbirajte odpadke in jih odstranite skladno s krajevnimi predpisi.

**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: Prenosi materiala (PROC8a)

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| Kategorije procesov | Prenos snovi ali zmesi (polnjenje in praznjenje) na nenamenskih napravah (PROC8a) |
|---------------------|-----------------------------------------------------------------------------------|

### Lastnosti izdelka (proizvoda)

#### Fizikalna oblika izdelka:

Tekoč

#### Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 1 %.

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

#### Trajanje:

Trajanje izpostavljenosti < 8 h

#### Frekvenca:

Pogostost uporabe < 240 dnevi na leto

### Tehnični in organizacijski pogoji in ukrepi

#### Tehnični in organizacijski ukrepi

Zagotovite dodatno prezračevanje na točkah, kjer nastopajo emisije.

Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.

Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev delovanja.

Vdihavanje - najmanjša učinkovitost:  
80 %

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

#### Osebna zaščitna oprema

Nosite ustrezno opremo za zaščito dihal.

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

Notranja aplikacija

Gospodarska uporaba

**Temperatura:** Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.

#### Izpostavljeni deli telesa:

Predpostavlja se, da je morebiten stik s kožo omejen na roke.

## 1.2. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem (PROC10)

|                     |                                           |
|---------------------|-------------------------------------------|
| Kategorije procesov | Nanašanje z valjčkom ali čopičem (PROC10) |
|---------------------|-------------------------------------------|

### Lastnosti izdelka (proizvoda)

#### Fizikalna oblika izdelka:

Tekoč

#### Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 1 %.

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

#### Trajanje:

Trajanje izpostavljenosti < 8 h

#### Frekvenca:

Pogostost uporabe < 240 dnevi na leto

### Tehnični in organizacijski pogoji in ukrepi

#### Tehnični in organizacijski ukrepi

Zagotovite dodatno prezračevanje na točkah, kjer nastopajo emisije.

Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.

Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev

Vdihavanje - najmanjša učinkovitost:  
80 %

|            |  |
|------------|--|
| delovanja. |  |
|------------|--|

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

#### **Osebna zaščitna oprema**

|                                                                                                                                            |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Nosite ustrezno opremo za zaščito dihal.<br>Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374). | Kožni - najmanjša učinkovitost: 90 % |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|

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

Notranja aplikacija  
Gospodarska uporaba

**Temperatura:** Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.

#### **Izpostavljeni deli telesa:**

Predpostavlja se, da je morebiten stik s kožo omejen na roke.

### **1.2. CS4: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem, pršenjem in polivanjem (PROC11)**

|                            |                                   |
|----------------------------|-----------------------------------|
| <b>Kategorije procesov</b> | Neindustrijsko brizganje (PROC11) |
|----------------------------|-----------------------------------|

### *Lastnosti izdelka (proizvoda)*

#### **Fizikalna oblika izdelka:**

Tekoč

#### **Koncentracija substance v produktu:**

Obsega delež snovi v izdelku do 1 %.

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

#### **Uporabljene količine:**

Poraba 0.05 L/min

#### **Trajanje:**

Trajanje izpostavljenosti < 150 min

#### **Frekvenca:**

Pogostost uporabe < 5 dnevi na teden

### *Tehnični in organizacijski pogoji in ukrepi*

#### **Tehnični in organizacijski ukrepi**

Zagotovite zadostno stopnjo splošnega prezračevanja (ne manj kot 3 do 5 izmenjav zraka na uro).

Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.

Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev delovanja.

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

#### **Osebna zaščitna oprema**

|                                                                                                                                                                                                                  |                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Nosite ustrezno opremo za zaščito dihal.<br>Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374).<br>Nosite primeren kombinezon, da bi preprečili izpostavljenost kože. | Kožni - najmanjša učinkovitost: 80 %<br>Vdihavanje - najmanjša učinkovitost: 40 % |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|

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

Notranja aplikacija  
Gospodarska uporaba

**Velikost prostora:** Obsega uporabo pri velikosti prostora < 1000 m<sup>3</sup>

**Temperatura:** Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.

#### **Izpostavljeni deli telesa:**

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

### **1.2. CS5: Scenarij, ki prispeva Delojemalec: Redčenje koncentratov in ravnanje z njimi (PROC19)**

|                     |                                                      |
|---------------------|------------------------------------------------------|
| Kategorije procesov | Ročne dejavnosti, ki vključujejo ročni stik (PROC19) |
|---------------------|------------------------------------------------------|

### *Lastnosti izdelka (proizvoda)*

#### Fizikalna oblika izdelka:

Tekoč

#### Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 1 %.

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

#### Trajanje:

Trajanje izpostavljenosti < 15 min

#### Frekvenca:

Pogostost uporabe < 240 dnevi na leto

### *Tehnični in organizacijski pogoji in ukrepi*

#### Tehnični in organizacijski ukrepi

|                                                                                                                                                                                                                                                                             |                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|
| Zagotovite dodatno prezračevanje na točkah, kjer nastopajo emisije.<br>Zagotovite, da so upravljavci usposobljeni za zmanjšanje izpostavljenosti na minimum.<br>Nadzorujte pravilen prenos razpoložljivih ukrepov za obvladovanje tveganj in upoštevanje pogojev delovanja. | Vdihavanje - najmanjša učinkovitost: 80 % |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|

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

#### Osebna zaščitna oprema

|                                                                                                                                            |                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Nosite ustrezno opremo za zaščito dihal.<br>Pri osnovnem usposabljanju uslužbencev nosite kemično odporne rokavice (preizkušene po EN374). | Kožni - najmanjša učinkovitost: 90 % |
|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|

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

Notranja aplikacija

Gospodarska uporaba

**Temperatura:** Predpostavljena je uporaba pri temperaturah ki ne presegajo temperaturo okolice za več kot 20 °C.

#### Izpostavljeni deli telesa:

Predpostavlja se, da je morebiten stik s kožo omejen na roke.

## 1.3 Ocena izpostavljenosti in sklicevanje na njen vir

### 1.3. CS2: Scenarij, ki prispeva Delojemalec: Prenosi materiala (PROC8a)

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti  | Metoda izračuna                | Stopnja opredelitve tveganja (RCR) |
|-----------------------------------------------------------------------|---------------------------|--------------------------------|------------------------------------|
| inhalacijski, dolgoročno                                              | = 12.94 mg/m <sup>3</sup> | ECETOC TRA<br>Delojemalec v2.0 | = 0.37                             |
| stik s kožo, sistemsko, dolgoročno                                    | = 13.71 mg/kg bw/dan      | ECETOC TRA<br>Delojemalec v2.0 | = 0.01                             |

### 1.3. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem (PROC10)

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti  | Metoda izračuna | Stopnja opredelitve tveganja (RCR) |
|-----------------------------------------------------------------------|---------------------------|-----------------|------------------------------------|
| inhalacijski, dolgoročno                                              | = 12.94 mg/m <sup>3</sup> | ECETOC TRA      | = 0.37                             |

|                                    |                     |                                |        |
|------------------------------------|---------------------|--------------------------------|--------|
|                                    |                     | Delojemalec v2.0               |        |
| stik s kožo, sistemska, dolgoročno | = 2.74 mg/kg bw/dan | ECETOC TRA<br>Delojemalec v2.0 | = 0.03 |

### 1.3. CS4: 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                                              | = 14.05 mg/m <sup>3</sup> | ECETOC TRA<br>Delojemalec v2.0 | = 0.4                              |
| stik s kožo, sistemska, dolgoročno                                    | = 53.75 mg/kg bw/dan      | ECETOC TRA<br>Delojemalec v2.0 | = 0.51                             |

### 1.3. CS5: Scenarij, ki prispeva Delojemalec: Redčenje koncentratov in ravnanje z njimi (PROC19)

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti | Metoda izračuna                | Stopnja opredelitve tveganja (RCR) |
|-----------------------------------------------------------------------|--------------------------|--------------------------------|------------------------------------|
| inhalacijski, dolgoročno                                              | = 6.47 mg/m <sup>3</sup> | ECETOC TRA<br>Delojemalec v2.0 | = 0.18                             |
| stik s kožo, sistemska, dolgoročno                                    | = 14.14 mg/kg bw/dan     | ECETOC TRA<br>Delojemalec v2.0 | = 0.13                             |

## 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.

# Scenarij izpostavljenosti

## Zinc Oxide

### Scenarij izpostavljenosti, 04/07/2022

| Identiteta snovi        |                  |
|-------------------------|------------------|
|                         | Zinc Oxide       |
| št.CAS                  | 1314-13-2        |
| Št. INDEKSA             | 030-013-00-7     |
| št.EINECS               | 215-222-5        |
| Registracijska številka | 01-2119463881-32 |

### Kazalo

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

|                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                       |                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| 1. ES 1                                                                                                                                                                                                                                         | Široko razširjena uporaba, ki jo izvajajo poklicni delavci; Razni produkti (PC9a, PC9b)                                                                                                                                               |                                       |
| <b>1.1 NASLOVNI ODSTAVEK</b>                                                                                                                                                                                                                    |                                                                                                                                                                                                                                       |                                       |
| Ime scenarija izpostavljenosti                                                                                                                                                                                                                  | Gospodarska uporaba premazov in barv - Uporaba za trde penaste mase, premaze, lepila in tesnila                                                                                                                                       |                                       |
| Datum - revizija                                                                                                                                                                                                                                | 04/07/2022 - 1.0                                                                                                                                                                                                                      |                                       |
| Stopnja življenjskega cikla                                                                                                                                                                                                                     | Široko razširjena uporaba, ki jo izvajajo poklicni delavci                                                                                                                                                                            |                                       |
| Glavna uporabniška skupina                                                                                                                                                                                                                      | Poklicne uporabe                                                                                                                                                                                                                      |                                       |
| Sektor(-ji) uporabe                                                                                                                                                                                                                             | Poklicne uporabe (SU22)                                                                                                                                                                                                               |                                       |
| Kategorije izdelkov                                                                                                                                                                                                                             | Premazi in barve, razredčila, sredstva za odstranjevanje barv (PC9a) - Polnila, kiti, mavci, modelirna glina (PC9b)                                                                                                                   |                                       |
| <b>Scenarij, ki prispeva Okolje</b>                                                                                                                                                                                                             |                                                                                                                                                                                                                                       |                                       |
| CS1                                                                                                                                                                                                                                             | ERC8a - ERC8d                                                                                                                                                                                                                         |                                       |
| <b>Scenarij, ki prispeva Delojemalec</b>                                                                                                                                                                                                        |                                                                                                                                                                                                                                       |                                       |
| CS2 Nanašanje z valjem in čopičem                                                                                                                                                                                                               | PROC10                                                                                                                                                                                                                                |                                       |
| CS3 Nanašanje z valjem in čopičem                                                                                                                                                                                                               | PROC10                                                                                                                                                                                                                                |                                       |
| CS4 Nanašanje z valjem, pršenjem in polivanjem                                                                                                                                                                                                  | PROC11                                                                                                                                                                                                                                |                                       |
| CS5 Nanašanje z valjem, pršenjem in polivanjem                                                                                                                                                                                                  | PROC11                                                                                                                                                                                                                                |                                       |
| <b>1.2 Pogoji uporabe z vplivom na izpostavitve</b>                                                                                                                                                                                             |                                                                                                                                                                                                                                       |                                       |
| <b>1.2. CS1: Scenarij, ki prispeva Okolje (ERC8a, ERC8d)</b>                                                                                                                                                                                    |                                                                                                                                                                                                                                       |                                       |
| Kategorije sproščanja v okolje                                                                                                                                                                                                                  | Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, notranja) - Široko razširjena uporaba nereaktivnega procesnega pripomočka (brez vključitve v ali na izdelek, zunanja) (ERC8a, ERC8d) |                                       |
| <b>Lastnosti izdelka (proizvoda)</b>                                                                                                                                                                                                            |                                                                                                                                                                                                                                       |                                       |
| <b>Fizikalna oblika izdelka:</b><br>Trdna snov, srednje velika prašnost                                                                                                                                                                         |                                                                                                                                                                                                                                       |                                       |
| <b>Koncentracija substance v produktu:</b><br>Obsega delež snovi v izdelku do 25 %.                                                                                                                                                             |                                                                                                                                                                                                                                       |                                       |
| <b>Uporabljen količina, pogostost in trajanje uporabe/(ali amortizacijska doba)</b>                                                                                                                                                             |                                                                                                                                                                                                                                       |                                       |
| <b>Uporabljene količine:</b><br>Poraba 50 ton/letno                                                                                                                                                                                             |                                                                                                                                                                                                                                       |                                       |
| <b>Tip izločanja:</b> Občasno sproščanje                                                                                                                                                                                                        |                                                                                                                                                                                                                                       |                                       |
| <b>Tehnični in organizacijski pogoji in ukrepi</b>                                                                                                                                                                                              |                                                                                                                                                                                                                                       |                                       |
| <b>Kontrolni ukrepi za preprečevanje izpustov</b>                                                                                                                                                                                               |                                                                                                                                                                                                                                       |                                       |
| Nadgradnja obstoječega sistema ali dodatni ukrepi za čiščenje zraka, kot so na primer naprave za mokro čiščenje in/ali filtracija zraka in/ali termična oksidacija in/ali sistemi za pridobivanje pare, za doseganje zmanjšanja emisij v zraku. |                                                                                                                                                                                                                                       | Zrak - najmanjša učinkovitost: > 50 % |
| <b>Pogoji in ukrepi v zvezi s komunalnimi čistilnimi napravami</b>                                                                                                                                                                              |                                                                                                                                                                                                                                       |                                       |
| <b>Vrsta čistilne naprave (STP):</b><br>Komunalna STP čistilna naprava                                                                                                                                                                          |                                                                                                                                                                                                                                       |                                       |
| <b>STP odpadne vode (m3/dan):</b> 2000                                                                                                                                                                                                          |                                                                                                                                                                                                                                       |                                       |
| <b>Pogoji in meritve v zvezi z obdelavo odpadkov (vključno z odpadki izdelka)</b>                                                                                                                                                               |                                                                                                                                                                                                                                       |                                       |

## Ravnanje z odpadki

Zažiganje, odstranjevanje ali recikliranje s pomočjo zunanjih izvajalcev

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

|                     |                                           |
|---------------------|-------------------------------------------|
| Kategorije procesov | Nanašanje z valjčkom ali čopičem (PROC10) |
|---------------------|-------------------------------------------|

#### Lastnosti izdelka (proizvoda)

##### Fizikalna oblika izdelka:

Trdna snov, srednje velika prašnost

##### Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 25 %.

#### Uporabljen količina, pogostost in trajanje uporabe/izpostavljenost

##### Uporabljene količine:

Poraba 50 ton/letno

Poraba 0.15 ton/dnevno

##### Trajanje:

Obsega dnevno izpostavljenost do 8 ure

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

##### Osebna zaščitna oprema

Nosite primerne rokavice, preizkušene po EN374.

Uporabljajte ustrezno zaščito za obraz.

Uporabljajte primerno zaščito oči.

Zagotoviti programe za zaščito kože zaposlenih.

Nosite ustrezno opremo za zaščito dihal.

Kožni - najmanjša učinkovitost:  $\geq 90\%$

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

Notranja aplikacija

Gospodarska uporaba

**Temperatura:** Sprejme procesno temperaturo do .... 25°C

### 1.2. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem (PROC10)

|                     |                                           |
|---------------------|-------------------------------------------|
| Kategorije procesov | Nanašanje z valjčkom ali čopičem (PROC10) |
|---------------------|-------------------------------------------|

#### Lastnosti izdelka (proizvoda)

##### Fizikalna oblika izdelka:

Trdna snov, srednje velika prašnost

##### Koncentracija substance v produktu:

Obsega delež snovi v izdelku do 25 %.

#### Uporabljen količina, pogostost in trajanje uporabe/izpostavljenost

##### Uporabljene količine:

Poraba 50 ton/letno

Poraba 0.15 ton/dnevno

##### Trajanje:

Obsega dnevno izpostavljenost do 8 ure

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

##### Osebna zaščitna oprema

Nosite primerne rokavice, preizkušene po EN374.

Uporabljajte ustrezno zaščito za obraz.

Uporabljajte primerno zaščito oči.

Zagotoviti programe za zaščito kože zaposlenih.

Kožni - najmanjša učinkovitost:  $\geq 90\%$

|                                                                                                                                                                                                                                 |                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Nosite ustrezno opremo za zaščito dihal.                                                                                                                                                                                        |                                         |
| <b>Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev</b>                                                                                                                                                        |                                         |
| Zunanja uporaba<br>Gospodarska uporaba<br><b>Temperatura:</b> Sprejme procesno temperaturo do .... 25°C                                                                                                                         |                                         |
| <b>1.2. CS4: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem, pršenjem in polivanjem (PROC11)</b>                                                                                                                         |                                         |
| <b>Kategorije procesov</b>                                                                                                                                                                                                      | Neindustrijsko brizganje (PROC11)       |
| <b>Lastnosti izdelka (proizvoda)</b>                                                                                                                                                                                            |                                         |
| <b>Fizikalna oblika izdelka:</b><br>Trdna snov, srednje velika prašnost<br><br><b>Koncentracija substance v produktu:</b><br>Obsega delež snovi v izdelku do 25 %.                                                              |                                         |
| <b>Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost</b>                                                                                                                                                      |                                         |
| <b>Uporabljene količine:</b><br>Poraba 50 ton/letno<br>Poraba 0.15 ton/dnevno<br><br><b>Trajanje:</b><br>Obsega dnevno izpostavljenost do 8 ure                                                                                 |                                         |
| <b>Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja</b>                                                                                                                                    |                                         |
| <b>Osebna zaščitna oprema</b>                                                                                                                                                                                                   |                                         |
| Nosite primerne rokavice, preizkušene po EN374.<br>Uporabljajte ustrezno zaščito za obraz.<br>Uporabljajte primerno zaščito oči.<br>Zagotoviti programe za zaščito kože zaposlenih.<br>Nosite ustrezno opremo za zaščito dihal. | Kožni - najmanjša učinkovitost: >= 90 % |
| <b>Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev</b>                                                                                                                                                        |                                         |
| Notranja aplikacija<br>Gospodarska uporaba<br><b>Temperatura:</b> Sprejme procesno temperaturo do .... 25°C                                                                                                                     |                                         |
| <b>1.2. CS5: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem, pršenjem in polivanjem (PROC11)</b>                                                                                                                         |                                         |
| <b>Kategorije procesov</b>                                                                                                                                                                                                      | Neindustrijsko brizganje (PROC11)       |
| <b>Lastnosti izdelka (proizvoda)</b>                                                                                                                                                                                            |                                         |
| <b>Fizikalna oblika izdelka:</b><br>Trdna snov, srednje velika prašnost<br><br><b>Koncentracija substance v produktu:</b><br>Obsega delež snovi v izdelku do 25 %.                                                              |                                         |
| <b>Uporabljena količina, pogostost in trajanje uporabe/izpostavljenost</b>                                                                                                                                                      |                                         |
| <b>Uporabljene količine:</b><br>Poraba 50 ton/letno<br>Poraba 0.15 ton/dnevno<br><br><b>Trajanje:</b><br>Obsega dnevno izpostavljenost do 8 ure                                                                                 |                                         |
| <b>Pogoji in ukrepi glede na osebno zaščito, higieno in preverjanje zdravstvenega stanja</b>                                                                                                                                    |                                         |

## Osebna zaščitna oprema

Nosite primerne rokavice, preizkušene po EN374.  
Uporabljajte ustrezno zaščito za obraz.  
Uporabljajte primerno zaščito oči.  
Zagotoviti programe za zaščito kože zaposlenih.  
Nosite ustrezno opremo za zaščito dihal.

Kožni - najmanjša učinkovitost:  $\geq 90\%$

## Drugi pogoji uporabe, ki vplivajo na izpostavljenost delojemalcev

Zunanja uporaba

Gospodarska uporaba

**Temperatura:** Sprejme procesno temperaturo do .... 25°C

## 1.3 Ocena izpostavljenosti in sklicevanje na njen vir

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

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti | Metoda izračuna | Stopnja opredelitve tveganja (RCR) |
|-----------------------------------------------------------------------|--------------------------|-----------------|------------------------------------|
| inhalacijski, sistemsko                                               | $\leq 1.4$ mg/dan        | MEASE           | N/A                                |
| stik s kožo, sistemsko                                                | $\leq 0.12$ mg/dan       | MEASE           | N/A                                |
| kombinirane poti, sistemsko                                           | $\leq 1.5$ mg/dan        | MEASE           | $\leq 0.15$                        |

### 1.3. CS3: Scenarij, ki prispeva Delojemalec: Nanašanje z valjem in čopičem (PROC10)

| Pot izpostavljenosti, Učinki na zdravje, Indikatorji izpostavljenosti | Stopnja izpostavljenosti | Metoda izračuna | Stopnja opredelitve tveganja (RCR) |
|-----------------------------------------------------------------------|--------------------------|-----------------|------------------------------------|
| inhalacijski, sistemsko                                               | $\leq 6$ mg/dan          | MEASE           | N/A                                |
| stik s kožo, sistemsko                                                | $\leq 0.12$ mg/dan       | MEASE           | N/A                                |
| kombinirane poti, sistemsko                                           | $\leq 6$ mg/dan          | MEASE           | $\leq 0.6$                         |

### 1.3. CS4: 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, sistemsko                                               | $\leq 6$ mg/dan          | MEASE           | N/A                                |
| stik s kožo, sistemsko                                                | $\leq 0.12$ mg/dan       | MEASE           | N/A                                |
| kombinirane poti, sistemsko                                           | $\leq 6$ mg/dan          | MEASE           | $\leq 0.6$                         |

### 1.3. CS5: 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, sistemsko     | <= 24 mg/dan   | MEASE | N/A    |
| stik s kožo, sistemsko      | <= 0.12 mg/dan | MEASE | N/A    |
| kombinirane poti, sistemsko | <= 24 mg/dan   | MEASE | <= 2.4 |

## 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.