**Safety Data Sheet**

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

**GEOLITE MICROSILICATO**

Date of first edition: 3/9/2021

Safety Data Sheet dated 22/10/2025

version 6

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

### 1.1. Product identifier

Mixture identification:

Trade name: GEOLITE MICROSILICATO

Trade code: 001029001

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

Recommended use: Paints/coatings - Decorative

Uses advised against: All uses other than recommended ones

### 1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

### 1.4. Emergency telephone number

European emergency phone number 112

Ireland Emergency medical information: (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland.

Members of the public Number (8 am-10 pm): +353 (0)1 809 2166

Healthcare professional telephone Number (24hrs): +353 (0)1 809 2566

Malta In case of emergency call: +356 2395 2000 (24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Regulation (EC) n. 1272/2008 (CLP)**

No specific hazards are encountered under normal product use.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

**Special Provisions:**

EUH208 Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH208 Contains 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

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

Exterior walls of mineral substrate

EU limit value for this product (cat. A/c): 40 g/l

This product contains max 12.76 g/l VOC.

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

None.

### 2.3. Other hazards

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

Other Hazards: Crystalline silica in breathable fraction present in the product does not contribute to the hazard classification according to the criteria laid down by the EC Regulation 1272/2008 (CLP) by virtue of the physical state of the product itself (liquid/solid paste) as it is marketed and reasonably be expected to be used. (Position IMA-Europe, Classification of mixtures in liquid form containing crystalline silica (May 2020)). The liquid/solid paste mixture, due to hardening or exposure to heat, can lose

its liquid content (water and other liquid components) and appear in a solid state; in case of handling of the solid mixture for disposal (non-compliant product) in so doing, comply with the local and national regulations currently in force. Contains biocidal product: C(M)IT/MIT (3:1); OIT; BIT; IPBC; The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments. Possible skin exposure must be avoided. Protective gloves and work clothes are required. Avoid releasing product into the environment. When washing work equipment, water must not be dispersed in the soil or on surface water

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: GEOLITE MICROSILICATO

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

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|---|---|---|---|---|
| ≥3-<5 % | Silicic acid, potassium salt - lumps or aqueous solutions of molar ratio MR > 3.2 | CAS:1312-76-1<br>EC:215-199-1 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335<br><br>Specific Concentration Limits:<br>C ≥ 40%: Eye Irrit. 2 H319<br>C ≥ 40%: Skin Irrit. 2 H315<br>C ≥ 40%: STOT SE 3 H335 | 01-2119456888-17 |
| ≥1-<3 % | Quartz | CAS:14808-60-7<br>EC:238-878-4 | STOT RE 1, H372 | |
| <0.01 % | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | 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 | 01-2120761540-60 |
| <0.0015 % | reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (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<br><br>Specific Concentration Limits:<br>C ≥ 0.6%: Skin Corr. 1C H314<br>0.06% ≤ C < 0.6%: Skin Irrit. 2 H315<br>C ≥ 0.6%: Eye Dam. 1 H318<br>0.06% ≤ C < 0.6%: Eye Irrit. 2 H319<br>C ≥ 0.0015%: Skin Sens. 1A H317 | |
| <0.0015 % | 2-octyl-2H-isothiazol-3-one | 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 | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

Wash immediately with water.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

**4.2. Most important symptoms and effects, both acute and delayed**

N.A.

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

N.A.

---

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide ($CO_2$).

Extinguishing media which must not be used for safety reasons:

None in particular.

**5.2. Special hazards arising from the substance or mixture**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

---

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non emergency personnel:**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**For emergency responders:**

Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

**6.3. Methods and material for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

**6.4. Reference to other sections**

See also section 8 and 13

---

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Advice on general occupational hygiene:**

**7.2. Conditions for safe storage, including any incompatibilities**

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

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

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Community Occupational Exposure Limits (OEL)**

| | OEL Type | Country | Occupational Exposure Limit |
|---|---|---|---|
| Calcium carbonate<br>CAS: 471-34-1 | NATIONAL | HUNGARY | Long Term: 10 mg/m3<br>inhalable aerosol<br>Source: 5/2020. (II. 6.) ITM |
| | NATIONAL | IRELAND | Long Term: 10 mg/m3<br>Inhalable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | IRELAND | Long Term: 4 mg/m3<br>Respirable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m3<br>inhalable aerosol<br>Source: EH40/2005 Workplace exposure limits |
| | NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 4 mg/m3<br>respirable aerosol<br>Source: EH40/2005 Workplace exposure limits |
| | NATIONAL | CROATIA | Long Term: 10 mg/m3<br>U<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 4 mg/m3<br>R<br>Source: NN 1/2021 |
| | NATIONAL | FRANCE | Long Term: 10 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | LATVIA | Long Term: 6 mg/m3<br>Source: KN325P1 |
| | NATIONAL | POLAND | Long Term: 10 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), Formel / Formal, NIOSH<br>Source: suva.ch/valeurs-limites |
| Quartz<br>CAS: 14808-60-7 | ACGIH | | Long Term: 0.025 mg/m3 (8h)<br>R, A2 - Pulm fibrosis, lung cancer |
| | NATIONAL | HUNGARY | Long Term: 0.1 mg/m3<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | IRELAND | Long Term: 0.1 mg/m3<br>Respirable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | ITALY | Long Term: 0.1 mg/m3<br>Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008<br>Source: D.lgs. 81/2008, Allegato XLIII |
| | NATIONAL | SPAIN | Long Term: 0.3 mg/m3<br>Respirable fraction<br>Source: LEP 2022 |

| | | | |
|---|---|---|---|
| | NATIONAL | BELGIUM | Long Term: 0.1 mg/m3<br>C<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | DENMARK | Long Term: 0.3 mg/m3<br>alveolijae, liite 3<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | DENMARK | Long Term: 0.1 mg/m3<br>EK<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 0.1 mg/m3<br>1, C<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FINLAND | Long Term: 0.05 mg/m3<br>alveolijae, liite 3<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 0.1 mg/m3<br>La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| | NATIONAL | LITHUANIA | Long Term: 0.1 mg/m3<br>Žiūrėti 1 priedo 3 punktą.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NETHERLANDS | Long Term: 0.075 mg/m3<br>(2)<br>Source: Arbeidsomstandighedenregeling - Lijst B1 |
| | NATIONAL | NORWAY | Long Term: 0.3 mg/m3<br>K 7<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | NORWAY | Long Term: 0.05 mg/m3<br>K G 7 21<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 0.1 mg/m3<br>6)<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SWEDEN | Long Term: 0.1 mg/m3<br>C, M, 3<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 0.15 mg/m3<br>TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites |
| Mica<br>CAS: 12001-26-2 | ACGIH | | Long Term: 0.1 mg/m3 (8h)<br>R - Pneumoconiosis |
| | NATIONAL | BELGIUM | Long Term: 3 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | IRELAND | Long Term: 3 mg/m3<br>R<br>Source: 2021 Code of Practice |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), Fibpulm / Lungenfibrose<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 0.8 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |

| | | | |
|---|---|---|---|
| | NATIONAL | CROATIA | Long Term: 10 mg/m3<br>U<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 0.8 mg/m3<br>R<br>Source: NN 1/2021 |
| | NATIONAL | ROMANIA | Long Term: 3 mg/m3<br>fracțiune respirabilă<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| Titanium dioxide<br>CAS: 13463-67-7 | ACGIH | | Long Term: 2.5 mg/m3 (8h)<br>Finescale particles; R ; A3 - LRT irr, pneumoconiosis |
| | NATIONAL | GERMANY | Long Term: 0.3 mg/m3; Short Term: 2.4 mg/m3<br>DFG; Long term and short term: excluding ultrafine particles; respirable fraction; multiplied by the material density;<br>Source: TRGS900 |
| | NATIONAL | BELGIUM | Long Term: 10 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 10 mg/m3<br>U<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 4 mg/m3<br>R<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Long Term: 10 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | IRELAND | Long Term: 4 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | ROMANIA | Long Term: 10 mg/m3; Short Term: 15 mg/m3<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| | NATIONAL | SPAIN | Long Term: 10 mg/m3<br>Source: LEP 2022 |
| | NATIONAL | AUSTRIA | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>60(Miw), 2x, MAK, A<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | BULGARIA | Long Term: 10 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | DENMARK | Long Term: 6 mg/m3<br>K<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 5 mg/m3<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FRANCE | Long Term: 10 mg/m3<br>Cancérogène de catégorie 2<br>Source: INRS outil65 |
| | NATIONAL | GREECE | Long Term: 10 mg/m3<br>εισπν.<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | GREECE | Long Term: 5 mg/m3<br>αναπν.<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | LATVIA | Long Term: 10 mg/m3<br>Source: KN325P1 |
| | NATIONAL | LITHUANIA | Long Term: 5 mg/m3<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NORWAY | Long Term: 5 mg/m3<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 10 mg/m3<br>4), 7) |

| | | | |
|---|---|---|---|
| | | | Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SLOVAKIA | Long Term: 5 mg/m3<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | NATIONAL | SWEDEN | Long Term: 5 mg/m3<br>3<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), SSC, Formel / Formal, NIOSH<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| Quartz<br>CAS: 14808-60-7 | EU | | Long Term: 0.1 mg/m3<br>Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung cancer. Directive 2017/2398 |
| | ACGIH | | Long Term: 0.025 mg/m3 (8h)<br>R, A2 - Pulm fibrosis, lung cancer |
| | NATIONAL | HUNGARY | Long Term: 0.1 mg/m3 (8h)<br>Respirable aerosol<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | IRELAND | Long Term: 0.1 mg/m3 (8h)<br>Respirable fraction<br>Source: 2021 Code of Practice |
| | NATIONAL | ITALY | Long Term: 0.1 mg/m3 (8h)<br>Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008<br>Source: D.lgs. 81/2008, Allegato XLIII |
| | NATIONAL | SPAIN | Long Term: 0.05 mg/m3 (8h)<br>Respirable fraction<br>Source: LEP 2022 |
| | NATIONAL | CROATIA | Long Term: 0.1 mg/m3<br>Source: NN 1/2021 |
| | NATIONAL | AUSTRIA | Long Term: 0.05 mg/m3<br>MAK, III C, A<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | BELGIUM | Long Term: 0.1 mg/m3<br>C<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | DENMARK | Long Term: 0.3 mg/m3<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | DENMARK | Long Term: 0.1 mg/m3<br>EK<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 0.1 mg/m3<br>1, C<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FINLAND | Long Term: 0.05 mg/m3<br>alveolijae, liite 3<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 0.1 mg/m3<br>La VLEP s'applique à la fraction alvéolaire. Forme de silice cristalline.<br>Source: INRS outil65, article R. 4412-149 du Code du travail |
| | NATIONAL | LITHUANIA | Long Term: 0.1 mg/m3<br>Žiūrėti 1 priedo 3 punktą.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NETHERLANDS | Long Term: 0.075 mg/m3<br>(2)<br>Source: Arbeidsomstandighedenregeling - Lijst B1 |

| | | | |
|---|---|---|---|
| | NATIONAL | NORWAY | Long Term: 0.3 mg/m3<br>K 7<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | NORWAY | Long Term: 0.05 mg/m3<br>K G 7 21<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 0.1 mg/m3<br>6)<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SWEDEN | Long Term: 0.1 mg/m3<br>C, M, 3<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 0.15 mg/m3<br>TWA mg/m3: (a), C1A, SSC, P, Cancpulm Silicose / Lugenkrebs Silikose, HSE NIOSH OSHA<br>Source: suva.ch/valeurs-limites |
| Carbon black<br>CAS: 1333-86-4 | ACGIH | | Long Term: 3 mg/m3 (8h)<br>I, A3 - Bronchitis |
| | NATIONAL | SWEDEN | Long Term: 3 mg/m3<br>Source: AFS 2021:3 |
| | NATIONAL | BELGIUM | Long Term: 3 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 3.5 mg/m3; Short Term: 7 mg/m3<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Long Term: 3 mg/m3<br>I<br>Source: 2021 Code of Practice |
| | NATIONAL | SPAIN | Long Term: 3.5 mg/m3<br>Source: LEP 2022 |
| | NATIONAL | DENMARK | Long Term: 3.5 mg/m3<br>K<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | FINLAND | Long Term: 3.5 mg/m3; Short Term: 7 mg/m3<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 3.5 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | GREECE | Long Term: 3.5 mg/m3; Short Term: 7 mg/m3<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | HUNGARY | Long Term: 3 mg/m3<br>belélegezhető koncentráció<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | NORWAY | Long Term: 3.5 mg/m3<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 4 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 3.5 mg/m3; Short Term: 7 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| 2-(2-butoxyethoxy)ethanol; diethylene glycol monobutyl ether<br>CAS: 112-34-5 | ACGIH | | Long Term: 10 ppm (8h)<br>IFV - Hematologic, liver and kidney eff |
| | NATIONAL | AUSTRIA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>15(Miw), 4x, MAK<br>Source: GKV, BGBl. II Nr. 156/2021 |

| | | |
|---|---|---|
| NATIONAL | BULGARIA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| NATIONAL | CZECHIA | Long Term: 70 mg/m3; Short Term: Ceiling - 100 mg/m3<br>I<br>Source: Nařízení vlády č. 361-2007 Sb |
| NATIONAL | DENMARK | Long Term: 68 mg/m3 - 10 ppm<br>E<br>Source: BEK nr 2203 af 29/11/2021 |
| NATIONAL | FINLAND | Long Term: 68 mg/m3 - 10 ppm<br>Source: HTP-ARVOT 2020 |
| NATIONAL | FRANCE | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: INRS outil65, arrêté du 30-06-2004 modifié |
| NATIONAL | HUNGARY | Long Term: 67.5 mg/m3; Short Term: 101.2 mg/m3<br>EU2, T<br>Source: 5/2020. (II. 6.) ITM rendelet |
| NATIONAL | LITHUANIA | Long Term: 100 mg/m3 - 15 ppm; Short Term: 200 mg/m3 - 30 ppm<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| NATIONAL | NETHERLANDS | Long Term: 50 mg/m3; Short Term: 100 mg/m3<br>H<br>Source: Arbeidsomstandighedenregeling - Lijst A |
| NATIONAL | NORWAY | Long Term: 68 mg/m3 - 10 ppm<br>E<br>Source: FOR-2021-06-28-2248 |
| NATIONAL | POLAND | Long Term: 67 mg/m3; Short Term: 100 mg/m3<br>Source: Dz.U. 2018 poz. 1286 |
| NATIONAL | SLOVAKIA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| NATIONAL | SWEDEN | Long Term: 68 mg/m3 - 10 ppm; Short Term: 101 mg/m3 - 15 ppm<br>Source: AFS 2021:3 |
| SUVA | SWITZERLAND | Long Term: 67 mg/m3 - 10 ppm; Short Term: 101 mg/m3 - 15 ppm<br>SSC, Rein Sang Foie / Niere Blut Leber, 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 |
| WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| NATIONAL | BELGIUM | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| NATIONAL | CROATIA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: 2006/15/EZ |
| NATIONAL | CYPRUS | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATIONAL | GERMANY | Long Term: 67 mg/m3 - 10 ppm<br>EU, DFG, Y, 11, 1, 5 (I)<br>Source: TRGS 900 |
| NATIONAL | GREECE | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: ΦΕΚ 202/Α` 23.8.2007 |
| NATIONAL | IRELAND | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 12 ppm<br>IOELV<br>Source: 2021 Code of Practice |
| NATIONAL | ITALY | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: D.lgs. 81/2008, Allegato XXXVIII |
| NATIONAL | LATVIA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: KN325P1 |

| | | | |
|---|---|---|---|
| | NATIONAL | LUXEMBOURG | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: Mémorial A n.226 du 22 mars 2021 |
| | NATIONAL | MALTA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: S.L.424.24 |
| | NATIONAL | PORTUGAL | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Source: Decreto-Lei n.º 1/2021 |
| | NATIONAL | ROMANIA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Dir. 2006/15<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| | NATIONAL | SLOVENIA | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>Y, EU2<br>Source: UL št. 72, 11. 5. 2021 |
| | NATIONAL | SPAIN | Long Term: 67.5 mg/m3 - 10 ppm; Short Term: 101.2 mg/m3 - 15 ppm<br>VLI, r<br>Source: LEP 2022 |
| | EU | | Long Term: 67.5 mg/m3 - 10 ppm (8h); Short Term: 101.2 mg/m3 - 15 ppm |
| Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1, 2-diol, ethoxylated<br>CAS: 25322-68-3 | NATIONAL | GERMANY | Long Term: 200 mg/m3<br>DFG, Y, E, 2 (II)<br>Source: TRGS 900 |
| | NATIONAL | SLOVAKIA | Long Term: 1000 mg/m3<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | SUVA | SWITZERLAND | Long Term: 500 mg/m3<br>SSC, Mcorp / KG<br>Source: suva.ch/valeurs-limites |
| Diiron trioxide<br>CAS: 1309-37-1 | ACGIH | | Long Term: 5 mg/m3 (8h)<br>R, A4 - Pneumoconiosis |
| | NATIONAL | BELGIUM | Long Term: 5 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 10 mg/m3<br>U<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 4 mg/m3<br>R<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | IRELAND | Long Term: 10 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | IRELAND | Long Term: 4 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | ROMANIA | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>(Fumuri, pulberi)<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| | NATIONAL | SPAIN | Long Term: 5 mg/m3<br>Source: LEP 2022 |
| | NATIONAL | AUSTRIA | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>60(Miw), 2x, MAK, A<br>Source: GKV, BGBl. II Nr. 156/2021 |
| | NATIONAL | BULGARIA | Long Term: 5 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | DENMARK | Long Term: 3.5 mg/m3<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 3.5 mg/m3<br>1<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |

| | | | |
|---|---|---|---|
| | NATIONAL | FINLAND | Long Term: 5 mg/m3<br>Fe<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 5 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | GREECE | Long Term: 10 mg/m3; Short Term: 10 mg/m3<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | HUNGARY | Long Term: 4 mg/m3<br>resp, T<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | LITHUANIA | Long Term: 3.5 mg/m3<br>Žiūrėti 1 priedo 3 punktą.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NORWAY | Long Term: 3 mg/m3<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | POLAND | Long Term: 2.5 mg/m3; Short Term: 5 mg/m3<br>6)<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SLOVAKIA | Long Term: 1.5 mg/m3<br>11)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | NATIONAL | SLOVAKIA | Long Term: 4 mg/m3<br>10)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | NATIONAL | SWEDEN | Long Term: 3.5 mg/m3<br>3<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), Formel / Formal, NIOSH<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 4 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| Barium sulfate<br>CAS: 7727-43-7 | ACGIH | | Long Term: 5 mg/m3 (8h)<br>I, E - Pneumoconiosis |
| | NATIONAL | BELGIUM | Long Term: 5 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 10 mg/m3<br>U<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 4 mg/m3<br>R<br>Source: NN 1/2021 |

| | | | |
|---|---|---|---|
| | NATIONAL | IRELAND | Long Term: 5 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | SPAIN | Long Term: 10 mg/m3<br>e<br>Source: LEP 2022 |
| | NATIONAL | BULGARIA | Long Term: 10 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | SLOVAKIA | Long Term: 4 mg/m3<br>10)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | NATIONAL | SLOVAKIA | Long Term: 1.5 mg/m3<br>11)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), Formel / Formal<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 4 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| Cellulose<br>CAS: 9004-34-6 | ACGIH | | Long Term: 10 mg/m3 (8h)<br>URT irr |
| | NATIONAL | BELGIUM | Long Term: 10 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 10 mg/m3; Short Term: 20 mg/m3<br>U<br>Source: NN 1/2021 |
| | NATIONAL | CROATIA | Long Term: 4 mg/m3<br>R<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Long Term: 10 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | ROMANIA | Long Term: 10 mg/m3<br>fracțiune inhalabilă<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| | NATIONAL | SPAIN | Long Term: 10 mg/m3<br>Source: LEP 2022 |
| | NATIONAL | ESTONIA | Long Term: 10 mg/m3<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FRANCE | Long Term: 10 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | LATVIA | Long Term: 2 mg/m3<br>Source: KN325P1 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), VRS / OAW, NIOSH<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m3; Short Term: 20 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |

| | | | |
|---|---|---|---|
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 4 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| potassium hydroxide; caustic potash<br>CAS: 1310-58-3 | ACGIH | | Short Term: Ceiling - 2 mg/m3<br>URT, eye, and skin irr |
| | NATIONAL | AUSTRIA | Long Term: 2 mg/m3<br>MAK, E<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | BULGARIA | Long Term: 2 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | CZECHIA | Long Term: 1 mg/m3; Short Term: Ceiling - 2 mg/m3<br>I<br>Source: Nařízení vlády č. 361-2007 Sb |
| | NATIONAL | DENMARK | Short Term: Ceiling - 2 mg/m3<br>L<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 2 mg/m3<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FINLAND | Short Term: Ceiling - 2 mg/m3<br>kattoarvo<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Short Term: 2 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | GREECE | Long Term: 2 mg/m3; Short Term: 2 mg/m3<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | HUNGARY | Long Term: 2 mg/m3; Short Term: 2 mg/m3<br>m, N<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | NORWAY | Short Term: Ceiling - 2 mg/m3<br>T<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 0.5 mg/m3; Short Term: 1 mg/m3<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SWEDEN | Long Term: 1 mg/m3; Short Term: 2 mg/m3<br>3<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 2 mg/m3<br>TWA mg/m3: (i), VRS Peau Yeux, NIOSH<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Short Term: 2 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | NATIONAL | BELGIUM | Short Term: 2 mg/m3<br>M<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Short Term: 2 mg/m3<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Short Term: 2 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | SPAIN | Short Term: 2 mg/m3<br>Source: LEP 2022 |

| | | | |
|---|---|---|---|
| 2,2' -oxybisethanol; diethylene glycol<br>CAS: 111-46-6 | NATIONAL | AUSTRIA | Long Term: 44 mg/m3 - 10 ppm; Short Term: 176 mg/m3 - 40 ppm<br>15(Miw), 4x, MAK<br>Source: GKV, BGBl. II Nr. 156/2021 |
| | NATIONAL | DENMARK | Long Term: 11 mg/m3 - 2.5 ppm<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 45 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm<br>A<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | LATVIA | Long Term: 10 mg/m3<br>Source: KN325P1 |
| | NATIONAL | LITHUANIA | Long Term: 45 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm<br>O<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | POLAND | Long Term: 10 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SLOVAKIA | Long Term: 44 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | NATIONAL | SWEDEN | Long Term: 45 mg/m3 - 10 ppm; Short Term: 90 mg/m3 - 20 ppm<br>H, V<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 44 mg/m3 - 10 ppm; Short Term: 176 mg/m3 - 40 ppm<br>SSC, 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 |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 101 mg/m3 - 23 ppm<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | NATIONAL | CROATIA | Long Term: 101 mg/m3 - 23 ppm<br>Source: NN 1/2021 |
| | NATIONAL | GERMANY | Long Term: 44 mg/m3 - 10 ppm<br>DFG, Y, 11, 4(II)<br>Source: TRGS 900 |
| | NATIONAL | IRELAND | Long Term: 100 mg/m3 - 23 ppm<br>Source: 2021 Code of Practice |
| | NATIONAL | ROMANIA | Long Term: 500 mg/m3 - 115 ppm; Short Term: 800 mg/m3 - 184 ppm<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| | NATIONAL | SLOVENIA | Long Term: 44 mg/m3 - 10 ppm; Short Term: 176 mg/m3 - 40 ppm<br>Y<br>Source: UL št. 72, 11. 5. 2021 |
| sodium hydroxide; caustic soda<br>CAS: 1310-73-2 | ACGIH | | Short Term: Ceiling - 2 mg/m3<br>URT, eye, and skin irr |
| | NATIONAL | ROMANIA | Long Term: 1 mg/m3; Short Term: 3 mg/m3 |
| | NATIONAL | AUSTRIA | Long Term: 2 mg/m3; Short Term: Ceiling - 4 mg/m3<br>5(Mow), 8x, MAK, E<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | BULGARIA | Long Term: 2 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | CZECHIA | Long Term: 1 mg/m3; Short Term: Ceiling - 2 mg/m3<br>I<br>Source: Nařízení vlády č. 361-2007 Sb |
| | NATIONAL | DENMARK | Short Term: Ceiling - 2 mg/m3<br>L<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 1 mg/m3; Short Term: 2 mg/m3<br>* |

| | | | |
|---|---|---|---|
| | | | Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FINLAND | Short Term: Ceiling - 2 mg/m3<br>kattoarvo<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 2 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | GREECE | Long Term: 2 mg/m3; Short Term: 2 mg/m3<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | HUNGARY | Long Term: 1 mg/m3; Short Term: 2 mg/m3<br>m, N<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | LATVIA | Long Term: 0.5 mg/m3<br>Source: KN325P1 |
| | NATIONAL | LITHUANIA | Short Term: Ceiling - 2 mg/m3<br>Ū<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NORWAY | Short Term: Ceiling - 2 mg/m3<br>T<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 0.5 mg/m3; Short Term: 1 mg/m3<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SLOVAKIA | Long Term: 2 mg/m3<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | NATIONAL | SWEDEN | Long Term: 1 mg/m3; Short Term: 2 mg/m3<br>3<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 2 mg/m3; Short Term: 2 mg/m3<br>TWA mg/m3: (i), SSC, VRS Peau Yeux / OAW Haut Auge, NIOSH OSHA<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Short Term: 2 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | NATIONAL | BELGIUM | Long Term: 2 mg/m3<br>M<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Short Term: 2 mg/m3<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Short Term: 2 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | SPAIN | Short Term: 2 mg/m3<br>Source: LEP 2022 |
| 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate<br>CAS: 55406-53-6 | SUVA | SWITZERLAND | Long Term: 0.12 mg/m3 - 0.01 ppm; Short Term: 0.24 mg/m3 - 0.02 ppm<br>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 |
| | NATIONAL | GERMANY | Long Term: 0.058 mg/m3 - 0.005 ppm<br>DFG, Y, Sh, 11, 2 (I)<br>Source: TRGS 900 |
| | NATIONAL | SLOVENIA | Long Term: 0.058 mg/m3 - 0.005 ppm; Short Term: 0.116 mg/m3 - 0.01 ppm<br>Y<br>Source: UL št. 72, 11. 5. 2021 |
| Propylidynetrimethanol<br>CAS: 77-99-6 | NATIONAL | LITHUANIA | Short Term: Ceiling - 5 ppm<br>Ū<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | SWEDEN | Long Term: 5 mg/m3<br>Source: AFS 2021:3 |

| | | | |
|---|---|---|---|
| zinc oxide<br>CAS: 1314-13-2 | ACGIH | | Long Term: 2 mg/m3 (8h); Short Term: 10 mg/m3<br>R - Metal fume fever |
| | NATIONAL | AUSTRIA | Long Term: 5 mg/m3<br>MAK, A<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | BULGARIA | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | CZECHIA | Long Term: 2 mg/m3; Short Term: Ceiling - 5 mg/m3<br>Source: Nařízení vlády č. 361-2007 Sb |
| | NATIONAL | DENMARK | Long Term: 4 mg/m3<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 5 mg/m3<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FINLAND | Long Term: 2 mg/m3; Short Term: 10 mg/m3<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 5 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | FRANCE | Long Term: 10 mg/m3<br>Source: INRS outil65 |
| | NATIONAL | GREECE | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | HUNGARY | Long Term: 5 mg/m3<br>i, N<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | HUNGARY | Long Term: 5 mg/m3<br>i, R<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | LATVIA | Long Term: 0.5 mg/m3<br>Source: KN325P1 |
| | NATIONAL | LITHUANIA | Long Term: 5 mg/m3<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NORWAY | Long Term: 5 mg/m3<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>4)<br>Source: Dz.U. 2018 poz. 1286 |
| | NATIONAL | SLOVAKIA | Long Term: 1 mg/m3; Short Term: 1 mg/m3<br>11)<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| | NATIONAL | SWEDEN | Long Term: 5 mg/m3<br>3<br>Source: AFS 2021:3 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3; Short Term: 3 mg/m3<br>TWA mg/m3: (a), Fimétal / Metallrauch, NIOSH OSHA<br>Source: suva.ch/valeurs-limites |
| | NATIONAL | BELGIUM | Long Term: 2 mg/m3; Short Term: 10 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | CROATIA | Long Term: 2 mg/m3; Short Term: 10 mg/m3<br>GVI: R<br>Source: NN 1/2021 |
| | NATIONAL | IRELAND | Long Term: 2 mg/m3; Short Term: 10 mg/m3<br>OEL (8-hour reference period) : R<br>Source: 2021 Code of Practice |
| | NATIONAL | ROMANIA | Long Term: 5 mg/m3; Short Term: 10 mg/m3<br>(Fumuri)<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| | NATIONAL | SPAIN | Long Term: 2 mg/m3; Short Term: 10 mg/m3 |

| | | | |
|---|---|---|---|
| | | | d<br>Source: LEP 2022 |
| 2-amino-2-methylpropanol<br>CAS: 124-68-5 | NATIONAL | DENMARK | Long Term: 3 ppm<br>Source: At-vejledning C.0.1-1 |
| | SUVA | SWITZERLAND | Long Term: 8.7 mg/m3 - 2.4 ppm; Short Term: 17.4 mg/m3 - 4.8 ppm<br>R/H, SSC, Foie / Leber, 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 |
| | NATIONAL | GERMANY | Long Term: 3.7 mg/m3 - 1 ppm<br>DFG, H, Y, 11, 2(II)<br>Source: TRGS 900 |
| | NATIONAL | SLOVENIA | Long Term: 3.7 mg/m3 - 1 ppm; Short Term: 7.4 mg/m3 - 2 ppm<br>K, Y<br>Source: UL št. 72, 11. 5. 2021 |
| ethanediol; ethylene glycol<br>CAS: 107-21-1 | ACGIH | | Short Term: 10 mg/m3<br>I, H, A4 - URT irr |
| | NATIONAL | AUSTRIA | Long Term: 26 mg/m3 - 10 ppm; Short Term: Ceiling - 52 mg/m3 - 20 ppm<br>5(Mow), 8x, MAK, H<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | BULGARIA | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Кожа<br>Source: НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. |
| | NATIONAL | CZECHIA | Long Term: 50 mg/m3; Short Term: Ceiling - 100 mg/m3<br>D<br>Source: Nařízení vlády č. 361-2007 Sb |
| | NATIONAL | DENMARK | Long Term: 26 mg/m3 - 10 ppm<br>EH<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | DENMARK | Long Term: 10 mg/m3<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | ESTONIA | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>A, 18<br>Source: Vabariigi Valitsuse, 20. märtsi 2001. a määrus nr 105 |
| | NATIONAL | FINLAND | Long Term: 50 mg/m3 - 20 ppm; Short Term: 100 mg/m3 - 40 ppm<br>iho<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | FRANCE | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Risque de pénétration percutanée<br>Source: INRS outil65, arrêté du 30-06-2004 modifié |
| | NATIONAL | GREECE | Long Term: 125 mg/m3 - 50 ppm; Short Term: 125 mg/m3 - 50 ppm<br>Source: ΦΕΚ 94/Α` 13.5.1999 |
| | NATIONAL | HUNGARY | Long Term: 52 mg/m3; Short Term: 104 mg/m3<br>b, i, EU1, N<br>Source: 5/2020. (II. 6.) ITM rendelet |
| | NATIONAL | LITHUANIA | Long Term: 25 mg/m3 - 10 ppm; Short Term: 50 mg/m3 - 20 ppm<br>O, Šis RD taikomas bendrai garų ir aerozolio koncentracijai.<br>Source: 2011 m. rugsėjo 1 d. Nr. V-824/A1-389 |
| | NATIONAL | NETHERLANDS | Long Term: 52 mg/m3; Short Term: 104 mg/m3<br>H<br>Source: Arbeidsomstandighedenregeling - Lijst A |
| | NATIONAL | NETHERLANDS | Long Term: 10 mg/m3; Short Term: 104 mg/m3<br>H<br>Source: Arbeidsomstandighedenregeling - Lijst A |
| | NATIONAL | NORWAY | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>H E 5 S<br>Source: FOR-2021-06-28-2248 |
| | NATIONAL | POLAND | Long Term: 15 mg/m3; Short Term: 50 mg/m3<br>skóra<br>Source: Dz.U. 2018 poz. 1286 |

| | | |
|---|---|---|
| NATIONAL | SLOVAKIA | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>K<br>Source: 355 NARIADENIE VLÁDY z 10. mája 2006 |
| NATIONAL | SWEDEN | Long Term: 25 mg/m3 - 10 ppm; Short Term: 104 mg/m3 - 40 ppm<br>H, 26<br>Source: AFS 2021:3 |
| SUVA | SWITZERLAND | Long Term: 26 mg/m3 - 10 ppm; Short Term: 52 mg/m3 - 20 ppm<br>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<br>Source: suva.ch/valeurs-limites |
| WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 10 mg/m3<br>Sk<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Sk<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| NATIONAL | BELGIUM | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>D, M<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| NATIONAL | CYPRUS | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>δέρμα<br>Source: Οι περί Ασφάλειας και Υγείας στην Εργασία (Χημικοί Παράγοντες) Κανονισμοί του 2001 έως 2021 |
| NATIONAL | GERMANY | Long Term: 26 mg/m3 - 10 ppm<br>DFG, EU, H, Y, 11, 2(I)<br>Source: TRGS 900 |
| NATIONAL | IRELAND | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Sk, IOELV<br>Source: 2021 Code of Practice |
| NATIONAL | ITALY | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Cute<br>Source: D.lgs. 81/2008, Allegato XXXVIII |
| NATIONAL | LATVIA | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Āda<br>Source: KN325P1 |
| NATIONAL | LUXEMBOURG | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Peau<br>Source: Mémorial A n.226 du 22 mars 2021 |
| NATIONAL | MALTA | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>skin<br>Source: S.L.424.24 |
| NATIONAL | PORTUGAL | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>Cutânea<br>Source: Decreto-Lei n.º 1/2021 |
| NATIONAL | ROMANIA | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>P, Dir. 2000/39<br>Source: Republicarea 1 - nr. 743 din 29 iulie 2021 |
| NATIONAL | SLOVENIA | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>K, Y, EU1<br>Source: UL št. 72, 11. 5. 2021 |
| NATIONAL | SPAIN | Long Term: 52 mg/m3 - 20 ppm; Short Term: 104 mg/m3 - 40 ppm<br>vía dérmica, VLI<br>Source: LEP 2022 |
| EU | | Long Term: 52 mg/m3 - 20 ppm (8h); Short Term: 104 mg/m3 - 40 ppm<br>Skin |

| | | | |
|---|---|---|---|
| Kaolin<br>CAS: 1332-58-7 | ACGIH | | Long Term: 2 mg/m3 (8h)<br>E,R, A4 - Pneumoconiosis |
| | NATIONAL | BELGIUM | Long Term: 2 mg/m3<br>Source: Code du bien-être au travail, Livre VI, Titre 1er, Annexe VI.1-1 |
| | NATIONAL | DENMARK | Long Term: 2 mg/m3<br>Source: BEK nr 2203 af 29/11/2021 |
| | NATIONAL | FINLAND | Long Term: 2 mg/m3<br>alveolijae<br>Source: HTP-ARVOT 2020 |
| | NATIONAL | IRELAND | Long Term: 2 mg/m3<br>Source: 2021 Code of Practice |
| | NATIONAL | POLAND | Long Term: 10 mg/m3<br>4), 7)<br>Source: Dz.U. 2018 poz. 1286 |
| | SUVA | SWITZERLAND | Long Term: 3 mg/m3<br>TWA mg/m3: (a), Fibpulm / Lungenfibrose<br>Source: suva.ch/valeurs-limites |
| | WEL-EH40 | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | Long Term: 2 mg/m3<br>Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | NATIONAL | CROATIA | Long Term: 2 mg/m3<br>R<br>Source: NN 1/2021 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<br>CAS: 55965-84-9 | NATIONAL | GERMANY | Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3<br>DFG; Long term and short term: inhalable fraction<br>Source: TRGS900 |
| | NATIONAL | AUSTRIA | Long Term: 0.05 mg/m3<br>MAK, Sh<br>Source: GKV, BGBl. II Nr. 156/2021 |
| | SUVA | SWITZERLAND | Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3<br>TWA mg/m3: (i), S, SSC, VRS Peau Yeux / OAW Haut  Auge<br>Source: suva.ch/valeurs-limites |
| 2-octyl-2H-isothiazol-3-one<br>CAS: 26530-20-1 | NATIONAL | AUSTRIA | Long Term: 0.05 mg/m3; Short Term: Ceiling - 0.05 mg/m3<br>Mow, MAK, H, S, E<br>Source: BGBl. II Nr. 156/2021 |
| | SUVA | SWITZERLAND | Long Term: 0.05 mg/m3; Short Term: 0.1 mg/m3<br>TWA mg/m3: (i), R/H, S, VRS / OAW<br>Source: suva.ch/valeurs-limites |
| | NATIONAL | GERMANY | Long Term: 0.05 mg/m3<br>DFG, H, Y, E, 2(I)<br>Source: TRGS 900 |
| | NATIONAL | SLOVENIA | Long Term: 0.05 mg/m3; Short Term: 0.1 mg/m3<br>K, Y, (I)<br>Source: UL št. 72, 11. 5. 2021 |
| Pyridine-2-thiol 1-oxide, sodium salt<br>CAS: 3811-73-2 | NATIONAL | GERMANY | Long Term: 0.2 mg/m3<br>DFG, H, Y, E, 2(II)<br>Source: TRGS 900 |
| | NATIONAL | SLOVENIA | Long Term: 1 mg/m3; Short Term: 2 mg/m3<br>K, (I)<br>Source: UL št. 72, 11. 5. 2021 |
| | NATIONAL | AUSTRIA | Long Term: 1 mg/m3; Short Term: 4 mg/m3<br>15(Miw), 4x, MAK, H<br>Source: BGBl. II Nr. 156/2021 |
| | NATIONAL | DENMARK | Long Term: 1 mg/m3<br>H<br>Source: BEK nr 2203 af 29/11/2021 |

| | | | |
|---|---|---|---|
| | SUVA | SWITZERLAND | Long Term: 0.2 mg/m3; Short Term: 0.4 mg/m3<br>TWA mg/m3: (i), R/H, SSC, SNP / PNS<br>Source: suva.ch/valeurs-limites |
| octamethylcyclotetrasiloxane<br>CAS: 556-67-2 | NATIONAL | AUSTRIA | f<br>Source: BGBl. II Nr. 156/2021 |

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

| | |
|---|---|
| Silicic acid, potassium salt - lumps or aqueous solutions of molar ratio MR > 3.2<br>CAS: 1312-76-1 | Exposure Route: Fresh Water; PNEC Limit: 7.5 mg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 7.5 mg/l |
| | Exposure Route: Marine water; PNEC Limit: 1 mg/l |
| | Exposure Route: Secondary poisoning; PNEC Limit: 348 mg/l |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one<br>CAS: 2634-33-5 | Exposure Route: Fresh Water; PNEC Limit: 4.03 µg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.1 µg/l |
| | Exposure Route: Marine water; PNEC Limit: 403 ng/L |
| | Exposure Route: Intermittent releases (marine water); PNEC Limit: 110 ng/L |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1.03 mg/l |
| | Exposure Route: Freshwater sediments; PNEC Limit: 49.9 µg/kg |
| | Exposure Route: Marine water sediments; PNEC Limit: 4.99 µg/kg |
| | Exposure Route: Soil; PNEC Limit: 3 mg/kg |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<br>CAS: 55965-84-9 | Exposure Route: Fresh Water; PNEC Limit: 3.39 µg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 3.39 µg/l |
| | Exposure Route: Marine water; PNEC Limit: 3.39 µg/l |
| | Exposure Route: Intermittent releases (marine water); PNEC Limit: 3.39 µg/l |
| | Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 230 µg/l |
| | Exposure Route: Freshwater sediments; PNEC Limit: 27 µg/l |
| | Exposure Route: Marine water sediments; PNEC Limit: 27 µg/l |
| | Exposure Route: Soil; PNEC Limit: 10 µg/l |
| 2-octyl-2H-isothiazol-3-one<br>CAS: 26530-20-1 | Exposure Route: Fresh Water; PNEC Limit: 2.2 µg/l |
| | Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1.22 µg/l |
| | 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: Marine water sediments; PNEC Limit: 47.5 µg/kg |
| | Exposure Route: Soil; PNEC Limit: 8.2 µg/kg |

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

| | |
|---|---|
| Silicic acid, potassium salt - lumps or aqueous solutions of molar ratio MR > 3.2<br>CAS: 1312-76-1 | Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects<br>Worker Professional: 5.61 mg/m³; Consumer: 1.38 mg/m³ |
| | Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects<br>Worker Professional: 1.49 mg/kg; Consumer: 740 µg/kg |
| | Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects<br>Consumer: 740 µg/kg |

| | |
|---|---|
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one<br>CAS: 2634-33-5 | Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects<br>Worker Professional: 6.81 mg/m³; Consumer: 1.2 mg/m³ |
| | Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects<br>Worker Professional: 966 µg/kg; Consumer: 345 µg/kg |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)<br>CAS: 55965-84-9 | Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects<br>Worker Professional: 20 µg/m³; Consumer: 20 µg/m³ |
| | Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects<br>Worker Professional: 40 µg/m³; Consumer: 20 µg/m³ |
| | Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects<br>Consumer: 90 µg/kg |
| | Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects<br>Consumer: 110 µg/kg |

**8.2. Exposure controls**

Eye protection:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

## SECTION 9: Physical and chemical properties

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

Physical state: Liquid

Colour: In compliance with the product description

Odour: Characteristic

Odour threshold: N.A.

pH: =11.46

Kinematic viscosity: N.A.

Melting point/freezing point: N.A.

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

Flash point: Not Applicable

Lower and upper explosion limit: N.A.

Relative vapour density: N.A.

Vapour pressure: N.A.

Density and/or relative density: 1.59 g/cm3 Notes: Dato preso dal calcolo di ChemGes

Solubility in water: N.A.

Solubility in oil: N.A.

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

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0.80 % ; 12.76 g/l

**Particle characteristics:**

Particle size: N.A.

**9.2. Other information**

No other relevant information

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

Stable under normal conditions

**10.2. Chemical stability**

Data not available.

**10.3. Possibility of hazardous reactions**

None.

**10.4. Conditions to avoid**

Stable under normal conditions.

**10.5. Incompatible materials**

None in particular.

**10.6. Hazardous decomposition products**

None.

## SECTION 11: Toxicological information

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

**Toxicological Information of the Preparation**

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

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

| | | | |
|---|---|---|---|
| Silicic acid, potassium salt - lumps or aqueous solutions of molar ratio MR > 3.2 | a) acute toxicity | LD50 Oral Rat > 5000 mg/kg | |
| | | LC50 Inhalation Vapour Rat > 2.06 mg/l 4h | |
| | | LD50 Skin Rat > 5000 mg/kg | |
| | b) skin corrosion/irritation | Skin Irritant Rabbit Positive 4h | |
| | c) serious eye damage/irritation | Eye Irritant Rabbit No | |
| | d) respiratory or skin sensitisation | Skin Sensitization Guineapig Negative | |
| | f) carcinogenicity | Genotoxicity Negative 24h | Mouse oral route |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat > 159 mg/kg | |
| Quartz | a) acute toxicity | LD50 Oral > 2000 mg/kg | |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | a) acute toxicity | LD50 Oral Rat = 670 mg/kg | |

| | | | |
|---|---|---|---|
| | | LD50 Skin Rat > 2000 mg/kg | |
| | b) skin corrosion/irritation | Skin Irritant Rabbit Negative | |
| | c) serious eye damage/irritation | Eye Corrosive Positive | irreversible damage |
| | d) respiratory or skin sensitisation | Skin Sensitization Guineapig Positive | |
| | f) carcinogenicity | Genotoxicity Rat Negative | Oral route |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 112 mg/kg | |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | a) acute toxicity | LD50 Oral Rat = 69 mg/kg | |
| | | LD50 Skin Rabbit = 141 mg/kg | |
| | | 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 | |
| | | Carcinogenicity Skin Negative | |
| | g) reproductive toxicity | No Observed Adverse Effect Level Oral Rat = 22.7 mg/kg | |
| 2-octyl-2H-isothiazol-3-one | a) acute toxicity | ATE - Oral : 125 mg/kg bw | |
| | | ATE - Dermal : 311 mg/kg bw | |
| | | LD50 Oral Rat = 125 mg/kg | |
| | | LC50 Inhalation Mist Rat = 0.27 mg/l 4h | |
| | | 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 Guineapig Positive | |

**11.2. Information on other hazards**

**Endocrine disrupting properties:**

No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

**12.1. Toxicity**

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

Eco-Toxicological Information:

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

Not classified for environmental hazards.

No data available for the product

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

| Component | Ident. Numb. | Ecotox Data |
|---|---|---|
| Silicic acid, potassium salt - lumps or aqueous solutions of molar ratio MR > 3.2 | CAS: 1312-76-1 - EINECS: 215-199-1 | a) Aquatic acute toxicity : LC50 Fish Leuciscus idus > 146 mg/L 96h DIN 38412 |

| | | |
|---|---|---|
| | | a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 146 mg/L 24h OECD 202<br><br>a) Aquatic acute toxicity : EC50 Algae Scenedesmus subspicatus = 207 mg/L 72h OECD guideline 201<br><br>c) Bacteria toxicity : EC0 Sludge Pseudomonas putida > 1000 mg/L OECD 209 - 18hr |
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | CAS: 2634-33-5 - EINECS: 220-120-9 - INDEX: 613-088-00-6 | a) Aquatic acute toxicity : LC50 Fish Oncorynchus mykiss = 2.15 mg/L 96h OECD Guideline 203<br><br>a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 2.9 mg/L 48h OECD Guideline 202<br><br>a) Aquatic acute toxicity : EC50 Algae green alga Selenastrum capricornutum freshwater algae = 110 µg/L OECD Guideline 201<br><br>d) Terrestrial toxicity : EC50 Worm Eisenia fetida > 410.6 mg/kg OECD Guideline 207 - Duration 14d<br><br>d) Terrestrial toxicity : EC10 soil microorganisms = 263.7 mg/kg - long term<br><br>a) Aquatic acute toxicity : NOEC Sludge activated sludge 10.3 mg/L 3h OECD Guideline 209<br><br>e) Plant toxicity : LC50 Triticum aestivum = 200 mg/kg OECD Guideline 208 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | CAS: 55965-84-9 - INDEX: 613-167-00-5 | a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 0.19 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test)<br><br>b) Aquatic chronic toxicity : NOEC Fish Danio rerio = 0.02 mg/L ,,OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days<br><br>a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 0.16 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)<br><br>b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 0.1 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) - 21days<br><br>a) Aquatic acute toxicity : EC50 Algae Skeletonema costatum = 0 mg/L 96h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)<br><br>a) Aquatic acute toxicity : EC50 Sludge activated sludge = 4.5 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)<br><br>d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 613 mg/kg ,,OECD Guideline 207 (Earthworm, Acute Toxicity Tests) - 14days<br><br>e) Plant toxicity : NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days |
| 2-octyl-2H-isothiazol-3-one | CAS: 26530-20-1 - EINECS: 247-761-7 - INDEX: 613-112-00-5 | a) Aquatic acute toxicity : LC50 Fish freshwater fish = 0.122 mg/L dossier ECHA<br><br>b) Aquatic chronic toxicity : EC10 Fish = 0.022 mg/L dossier ECHA<br><br>a) Aquatic acute toxicity : EC50 freshwater invertebrates = 0.181 mg/L dossier ECHA<br><br>b) Aquatic chronic toxicity : EC10 freshwater invertebrates = 0.035 mg/L dossier ECHA<br><br>LC50 Algae freshwater algae = 0.15 mg/L |

**12.2. Persistence and degradability**

| Component | Persitence/Degradability: | Test | Notes: |
|---|---|---|---|
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | Non-readily biodegradable | CO2 production | OECD Guideline 301C |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Non-readily biodegradable | | |

| | |
|---|---|
| 2-octyl-2H-isothiazol-3-one | Non-readily biodegradable |

**12.3. Bioaccumulative potential**

| Component | Bioaccumulation | Test | Value | Notes: |
|---|---|---|---|---|
| 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one | Bioaccumulative | BCF - Bioconcentrantion factor | 6.620 | |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Bioaccumulative | BCF - Bioconcentrantion factor | 54.000 | ≤ 54 |
| 2-octyl-2H-isothiazol-3-one | Bioaccumulative | BCF - Bioconcentrantion factor | 19.210 | L/kg ww |

**12.4. Mobility in soil**

N.A.

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

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

**12.6. Endocrine disrupting properties**

No endocrine disruptor substances present in concentration >= 0.1%

**12.7. Other adverse effects**

N.A.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

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

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

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

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

The liquid mixture, due to hardening or exposure to heat, loses its original technical characteristics and appears in a solid state upon disposal; in this case, employees must comply with the requirements of national legislation about safety in the workplace.

In particular, employees must take appropriate technical measures when handling the product, such as proceed with local ventilation and use airtight containers to limit dust dispersion; they must as well wear a respirator with P3 filter.

## 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 (EC) n. 1272/2008 (CLP)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Regulation (EU) n. 2023/707

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

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

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

Regulation (EU) n. 2020/878

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

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3

Restrictions related to the substances contained: 30, 40, 55, 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.**

NWG: Not hazardous for water

**German Lagerklasse according to TRGS 510:**

LGK 10

SVHC Substances:

No SVHC substances present in concentration >= 0.1%

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

(ready to use)

Volatile Organic compounds - VOCs = 0.80 %

Volatile Organic compounds - VOCs = 12.76 g/L

**REGULATION (EU) No 528/2012**

The product is identified as an article treated pursuant to art. 58 of Regulation (EU) no. 528/2012 and subsequent amendments.

Substances included in Regulation (EU) n. 528/2012 (concerning the making available on the market and use of biocidal products):
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; 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: Initial application for approval in progress. Nomenclature IUPAC: octhilinone (ISO); 2-octyl-2H-isothiazol-3-one

Nomenclature BPR: OIT

CAS number: 26530-20-1

Product-type 6: Preservatives for products during storage

Assessment status: Initial application for approval in progress.

Product-type 7: Film preservatives

Assessment status: Initial application for approval in progress.

Product-type 8: Film preservatives

Assessment status: Approved

Commission Implementing Regulation EU 2017/1277

Product-type 10: Construction material preservatives

Assessment status: Initial application for approval in progress. 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

Commission Implementing Regulation (EU) 2016/131

**15.2. Chemical safety assessment**

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

## SECTION 16: Other information

| Code | Description |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

| Code | Hazard class and hazard category | Description |
|---|---|---|
| 3.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| 3.3/2 | Eye Irrit. 2 | Eye irritation, Category 2 |
| 3.8/3 | STOT SE 3 | Specific target organ toxicity — single exposure, Category 3 |
| 3.9/1 | STOT RE 1 | Specific target organ toxicity — repeated exposure, Category 1 |

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:**

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information