

## Safety Data Sheet

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

### BIOCALCE SILICATO PURO PINTURA

Date of first edition: 6/28/2021

Safety Data Sheet dated 2/20/2023

version 5

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

### 1.1. Product identifier

Mixture identification:

Trade name: BIOCALCE SILICATO PURO PINTURA

Trade code: K07008

### 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 IBÉRICA S.A.

Carretera de Alcora, Km. 10,450 – 12006 Castellón de la Plana – España

Tel. +34 964 251 500 – Fax +34 964 241 100

safety@kerakoll.com

### 1.4. Emergency telephone number

European emergency phone number 112

Kerakoll Italy (+39) 0536 816511

Ireland

Poison information centre: (+353) 809 2166 (Daily 8am-10pm)

In case of emergency call 999 or 112

Malta

In case of emergency call: 112 (24h)

## 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

P102 Keep out of reach of children.

P273 Avoid release to the environment.

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

#### Special Provisions:

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.

#### Contains

Quartz

#### 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 7.41 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  $\geq 0.1\%$ .

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) 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 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) it is necessary to apply the appropriate preventive measures referred to in section 13.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Mixture identification: BIOCALCE SILICATO PURO PINTURA

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

| Qty        | Name                                                                                          | Ident. Numb.                         | Classification                                                                                                                                                                                                                                                                                                                                                                                                                                          | Registration Number |
|------------|-----------------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 5-9,9 %    | 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 $\geq 40\%$ : Eye Irrit. 2 H319<br>C $\geq 40\%$ : Skin Irrit. 2 H315<br>C $\geq 40\%$ : STOT SE 3 H335                                                                                                                                                                                                                                               | 01-2119456888-17    |
| 1-2,4 %    | Quartz                                                                                        | CAS:14808-60-7<br>EC:238-878-4       | STOT RE 1, H372                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
| < 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 $\geq 0.6\%$ : Skin Corr. 1C H314<br>0.06% $\leq$ C < 0.6%: Skin Irrit. 2 H315<br>C $\geq 0.6\%$ : Eye Dam. 1 H318<br>0.06% $\leq$ C < 0.6%: Eye Irrit. 2 H319<br>C $\geq 0.0015\%$ : Skin Sens. 1A H317 |                     |

## 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<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

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

### 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

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## 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.

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

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Community Occupational Exposure Limits (OEL)

| Component         | OEL Type | Country   | Ceiling | Long Term<br>mg/m <sup>3</sup> | Long Term<br>ppm | Short Term<br>mg/m <sup>3</sup> | Short Term<br>ppm | Notes                                                                                |
|-------------------|----------|-----------|---------|--------------------------------|------------------|---------------------------------|-------------------|--------------------------------------------------------------------------------------|
| Calcium carbonate | NATIONAL | AUSTRALIA |         | 10.000                         |                  |                                 |                   | This value is for inhalable dust containing no asbestos and <1 % crystalline silica. |
|                   | NATIONAL | CANADA    |         | 10.000                         |                  |                                 |                   |                                                                                      |
|                   | NATIONAL | FRANCE    |         | 10.000                         |                  |                                 |                   |                                                                                      |
|                   | NATIONAL | HUNGARY   |         | 10.000                         |                  |                                 |                   |                                                                                      |
|                   |          |           |         |                                |                  |                                 |                   | inhalable aerosol                                                                    |
|                   |          |           |         |                                |                  |                                 |                   | inhalable aerosol                                                                    |

Quartz

|          |                                                      |        |       |                                                                                                                                                                                                           |
|----------|------------------------------------------------------|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NATIONAL | IRELAND                                              | 10.000 |       | Inhalable fraction                                                                                                                                                                                        |
| NATIONAL | IRELAND                                              | 4.000  |       | Respirable fraction                                                                                                                                                                                       |
| NATIONAL | LATVIA                                               | 6.000  |       |                                                                                                                                                                                                           |
| NATIONAL | POLAND                                               | 10.000 |       |                                                                                                                                                                                                           |
| NATIONAL | SWITZERLAND                                          | 3.000  |       | respirable aerosol                                                                                                                                                                                        |
| NATIONAL | UNITED STATES OF AMERICA                             | 15.000 |       | total dust                                                                                                                                                                                                |
| NATIONAL | UNITED STATES OF AMERICA                             | 5.000  |       | respirable dust                                                                                                                                                                                           |
| NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | 10.000 |       | inhalable aerosol                                                                                                                                                                                         |
| NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | 4.000  |       | respirable aerosol                                                                                                                                                                                        |
| NATIONAL | BELGIUM                                              | 10.000 |       |                                                                                                                                                                                                           |
| NATIONAL | CROATIA                                              | 10.000 |       |                                                                                                                                                                                                           |
| NATIONAL | NETHERLANDS                                          | 10.000 |       |                                                                                                                                                                                                           |
| NATIONAL | PORTUGAL                                             | 10.000 |       |                                                                                                                                                                                                           |
| NATIONAL | SPAIN                                                | 10.000 |       |                                                                                                                                                                                                           |
| NATIONAL | AUSTRALIA                                            | 0.050  |       | Respirable fraction                                                                                                                                                                                       |
| NATIONAL | AUSTRIA                                              | 0.050  |       | respirable fraction                                                                                                                                                                                       |
| NATIONAL | BELGIUM                                              | 0.100  |       | Respirable dust , Additional indication "C" means that the agent falls within the scope of Title 2 concerning carcinogenic, mutagenic and reprotoxic agents of Book VI of the Codex on well-being at work |
| NATIONAL | CANADA                                               | 0.100  |       | Canada Ontario. Respirable aerosol                                                                                                                                                                        |
| NATIONAL | CANADA                                               | 0.100  |       | Canada Quebec, respirable fraction                                                                                                                                                                        |
| NATIONAL | DENMARK                                              | 0.300  | 0.600 | Inhalable aerosol                                                                                                                                                                                         |
| NATIONAL | DENMARK                                              | 0.100  | 0.200 | Respirable aerosol                                                                                                                                                                                        |
| NATIONAL | FINLAND                                              | 0.050  |       | Respirable fraction                                                                                                                                                                                       |
| NATIONAL | FRANCE                                               | 0.100  |       | Respirable aerosol                                                                                                                                                                                        |
| NATIONAL | HUNGARY                                              | 0.100  |       | Respirable aerosol                                                                                                                                                                                        |
| NATIONAL | IRELAND                                              | 0.100  |       | Respirable fraction                                                                                                                                                                                       |
| NATIONAL | SPAIN                                                | 0.050  |       | Respirable fraction                                                                                                                                                                                       |
| NATIONAL | SWEDEN                                               | 0.100  |       | Respirable aerosol                                                                                                                                                                                        |
| NATIONAL | SWITZERLAND                                          | 0.150  |       | Respirable aerosol                                                                                                                                                                                        |
| NATIONAL | NETHERLANDS                                          | 0.075  |       | Respirable dust                                                                                                                                                                                           |
| NATIONAL | ITALY                                                | 0.100  |       | Polvere di silice cristallina respirabile (frazione inalabile). D.Lgs 81/2008                                                                                                                             |

|        |          |                          |        |       |                                                                                                                                                                                                           |
|--------|----------|--------------------------|--------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quartz | NATIONAL | UNITED STATES OF AMERICA | 0.050  |       | NIOSH                                                                                                                                                                                                     |
|        | NATIONAL | CROATIA                  | 0.100  |       |                                                                                                                                                                                                           |
|        | NATIONAL | ESTONIA                  | 0.100  |       |                                                                                                                                                                                                           |
|        | NATIONAL | LITHUANIA                | 0.100  |       |                                                                                                                                                                                                           |
|        | NATIONAL | NORWAY                   | 0.300  |       | Total dust                                                                                                                                                                                                |
|        | NATIONAL | NORWAY                   | 0.100  |       | Respirable dust                                                                                                                                                                                           |
|        | NATIONAL | POLAND                   | 0.100  |       | Respirable fraction Dz. U. 2018 poz. 1286 wraz z późn. zm.                                                                                                                                                |
|        | NATIONAL | PORTUGAL                 | 0.050  |       |                                                                                                                                                                                                           |
|        | NATIONAL | SLOVENIA                 | 0.050  | 0.400 |                                                                                                                                                                                                           |
|        | EU       | NNN                      | 0.100  |       | Polvere di silice cristallina respirabile, frazione inalabile. (R), A2 - Pulm fibrosis, lung cancer. Directive 2017/2398                                                                                  |
|        | NATIONAL | INDIA                    | 10.000 |       |                                                                                                                                                                                                           |
|        | NATIONAL | AUSTRALIA                | 0.050  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | AUSTRIA                  | 0.050  |       | MAK value, Respirable fraction                                                                                                                                                                            |
|        | NATIONAL | BELGIUM                  | 0.100  |       | Respirable dust , Additional indication "C" means that the agent falls within the scope of Title 2 concerning carcinogenic, mutagenic and reprotoxic agents of Book VI of the Codex on well-being at work |
|        | NATIONAL | CANADA                   | 0.100  |       | Canada Ontario; Respirable aerosol                                                                                                                                                                        |
|        | NATIONAL | CANADA                   | 0.100  |       | Canada Quebec, Respirable fraction                                                                                                                                                                        |
|        | NATIONAL | DENMARK                  | 0.300  | 0.600 | Inhalable aerosol                                                                                                                                                                                         |
|        | NATIONAL | DENMARK                  | 0.100  | 0.200 | Respirable aerosol                                                                                                                                                                                        |
|        | NATIONAL | FINLAND                  | 0.050  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | FRANCE                   | 0.100  |       | Respirable aerosol                                                                                                                                                                                        |
|        | NATIONAL | HUNGARY                  | 0.100  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | IRELAND                  | 0.100  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | SPAIN                    | 0.050  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | SWEDEN                   | 0.100  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | SWITZERLAND              | 0.150  |       | Respirable aerosol                                                                                                                                                                                        |
|        | NATIONAL | NETHERLANDS              | 0.075  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | ITALY                    | 0.100  |       | Polvere di silice cristallina respirabile (frazione inalabile). Rif:D.Lgs 81/2008                                                                                                                         |
|        | NATIONAL | UNITED STATES OF AMERICA | 0.050  |       | NIOSH                                                                                                                                                                                                     |
|        | NATIONAL | UNITED STATES OF AMERICA | 0.050  |       | Respirable fraction, mppcf × 35.3 = million particles per cubic meter = particles per c.c.                                                                                                                |
|        | NATIONAL | INDIA                    | 10.000 |       |                                                                                                                                                                                                           |
|        | NATIONAL | NORWAY                   | 0.300  |       | Total dust                                                                                                                                                                                                |
|        | NATIONAL | NORWAY                   | 0.100  |       | Respirable fraction                                                                                                                                                                                       |
|        | NATIONAL | POLAND                   | 0.100  |       | Respirable fraction Dz. U. 2018 poz. 1286 wraz z późn. zm.                                                                                                                                                |
|        | NATIONAL | PORTUGAL                 | 0.050  |       | Respirable fraction                                                                                                                                                                                       |

|      |          |                                                      |         |        |         |        |                                                      |
|------|----------|------------------------------------------------------|---------|--------|---------|--------|------------------------------------------------------|
| Mica | NATIONAL | SLOVENIA                                             | 0.050   | 0.400  |         |        |                                                      |
|      | NATIONAL | AUSTRALIA                                            | 2.500   |        |         |        |                                                      |
|      | NATIONAL | AUSTRIA                                              | 10.000  |        |         |        | Inhalable aerosol                                    |
|      | NATIONAL | BELGIUM                                              | 3.000   |        |         |        |                                                      |
|      | NATIONAL | CANADA                                               | 3.000   |        |         |        | Ontario: respirable aerosol                          |
|      | NATIONAL | CANADA                                               | 3.000   |        |         |        | Quebec                                               |
|      | NATIONAL | DENMARK                                              | 0.300   | 0.300  |         |        | Long term and short term: fibres per cm <sup>3</sup> |
|      | NATIONAL | IRELAND                                              | 10.000  |        |         |        | Inhalable fraction                                   |
|      | NATIONAL | IRELAND                                              | 0.800   |        |         |        | respirable fraction                                  |
|      | NATIONAL | LATVIA                                               | 4.000   |        |         |        | and phlogopite, muscovite                            |
|      | NATIONAL | NEW ZEALAND                                          | 3.000   |        |         |        | respirable dust                                      |
|      | NATIONAL | CHINA                                                | 2.000   |        |         |        | Inhalable fraction                                   |
|      | NATIONAL | CHINA                                                | 1.500   |        |         |        | Respirable fraction                                  |
|      | NATIONAL | SINGAPORE                                            | 3.000   |        |         |        | respirable dust                                      |
|      | NATIONAL | KOREA, REPUBLIC OF                                   | 3.000   |        |         |        |                                                      |
|      | NATIONAL | SWITZERLAND                                          | 3.000   |        |         |        | Respirable aerosol                                   |
|      | NATIONAL | UNITED STATES OF AMERICA                             | 3.000   |        |         |        | NIOSH: respirable fraction                           |
|      | NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | 10.000  |        |         |        | Inhalable aerosol                                    |
|      | NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | 0.800   |        |         |        | Respirable aerosol                                   |
|      | NATIONAL | CHILE                                                | 2.630   |        |         |        |                                                      |
|      | NATIONAL | CROATIA                                              | 10.000  |        |         |        | Total dust                                           |
|      | NATIONAL | CROATIA                                              | 0.800   |        |         |        | Respirable dust                                      |
|      | NATIONAL | ARGENTINA                                            | 3.000   |        |         |        |                                                      |
|      | NATIONAL | SPAIN                                                | 3.000   |        |         |        | Respirable fraction                                  |
|      | NATIONAL | SOUTH AFRICA                                         | 10.000  |        |         |        | Inhalable particulate                                |
|      | NATIONAL | SOUTH AFRICA                                         | 1.000   |        |         |        | Respirable particulate                               |
|      | NATIONAL | TAIWAN, PROVINCE OF CHINA                            | 3.000   |        |         |        |                                                      |
|      | ACGIH    | NNN                                                  | 3.000   |        |         |        | (R) - Pneumoconiosis                                 |
|      | EU       | NNN                                                  | 67.5    | 10     | 101.2   | 15     | Indicative Occupational Exposure Limit Value (IOELV) |
|      | NATIONAL | BELGIUM                                              | 67.500  | 10.000 | 101.200 | 15.000 |                                                      |
|      | NATIONAL | DENMARK                                              | 100.000 |        | 200.000 |        |                                                      |
|      | NATIONAL | FINLAND                                              | 68.000  | 10.000 |         |        |                                                      |

2-(2-butoxyethoxy) ethanol; diethylene glycol monobutyl ether

|                          |                |                                                      |        |              |         |        |                                                                                                                                                                                  |
|--------------------------|----------------|------------------------------------------------------|--------|--------------|---------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-amino-2-methylpropanol | NATIONAL       | FRANCE                                               | 67.500 | 10.000       | 101.200 | 15.000 | Italic type: Indicative statutory limit values                                                                                                                                   |
|                          | NATIONAL       | GERMANY                                              | 67.000 | 10.000       | 100.000 | 15.000 | AGS; Long term and short term: inhalable aerosol and vapour                                                                                                                      |
|                          | NATIONAL       | GERMANY                                              | 67.000 | 10.000       | 100.500 | 15.000 | DFG; MAK value applies for the sum of the concentrations of diethylene glycol monobutyl ethe and its acetate in the air; Long term and short term: Inhalable fraction and vapour |
|                          | NATIONAL       | HUNGARY                                              | 67.500 |              | 101.200 |        |                                                                                                                                                                                  |
|                          | NATIONAL       | IRELAND                                              | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | LATVIA                                               | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | POLAND                                               | 67.000 |              | 100.000 |        |                                                                                                                                                                                  |
|                          | NATIONAL       | ROMANIA                                              | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | SPAIN                                                | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | SWEDEN                                               | 68.000 | 10.000       | 101.000 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | SWITZERLAND                                          | 67.000 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | NETHERLANDS                                          | 50.000 |              | 100.000 |        |                                                                                                                                                                                  |
|                          | NATIONAL       | TURKEY                                               | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | ITALY                                                | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | BULGARIA                                             | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | CROATIA                                              | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | GREECE                                               | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | ICELAND                                              | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | SLOVAKIA                                             | 67.500 | 10.000       | 101.200 | 15.000 |                                                                                                                                                                                  |
|                          | NATIONAL       | CZECHIA                                              | 70.000 |              | 100.000 |        |                                                                                                                                                                                  |
|                          | NATIONAL       | KOREA, REPUBLIC OF                                   |        | 10.000       |         |        |                                                                                                                                                                                  |
|                          | NATIONAL       | NORWAY                                               | 68.000 | 10.000       |         |        |                                                                                                                                                                                  |
|                          | NATIONAL       | RUSSIAN FEDERATION                                   |        |              | 10.000  |        |                                                                                                                                                                                  |
|                          | NATIONAL       | UNITED STATES OF AMERICA                             | 67.500 | 10.000       |         |        | Ihalable fraction and vapour                                                                                                                                                     |
|                          | NATIONAL ACGIH | PORTUGAL NNN                                         |        | 10.000<br>10 |         |        | (IFV) - Hematologic, liver and kidney eff                                                                                                                                        |
|                          | EU             | NNN                                                  | 67.5   | 10           | 101.2   | 15     |                                                                                                                                                                                  |
|                          | NATIONAL       | GERMANY                                              | 3.700  | 1.000        | 7.400   | 2.000  | AGS; Long term and short term: inhalable fraction and vapour                                                                                                                     |
|                          | NATIONAL       | GERMANY                                              | 3.700  | 1.000        | 7.400   | 2.000  | DFG; Long term and short term: inhalable fraction and vapour                                                                                                                     |
|                          | NATIONAL       | SWITZERLAND                                          | 8.700  | 2.400        | 17.400  | 4.800  |                                                                                                                                                                                  |

|                                 |          |                                                      |         |        |         |         |                                             |
|---------------------------------|----------|------------------------------------------------------|---------|--------|---------|---------|---------------------------------------------|
| 2-methoxy-1-methylethyl acetate | NATIONAL | SLOVENIA                                             | 3.700   | 1.000  | 17.400  | 4.800   |                                             |
|                                 | NATIONAL | AUSTRALIA                                            | 274.000 | 50.000 | 548.000 | 100.000 |                                             |
|                                 | NATIONAL | AUSTRIA                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | BELGIUM                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | CANADA                                               | 270.000 | 50.000 |         |         | Ontario                                     |
|                                 | NATIONAL | DENMARK                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | FINLAND                                              | 270.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | FRANCE                                               | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | GERMANY                                              | 270.000 | 50.000 | 270.000 | 100.000 | AGS                                         |
|                                 | NATIONAL | GERMANY                                              | 270.000 | 50.000 | 270.000 | 100.000 | DFG                                         |
|                                 | NATIONAL | HUNGARY                                              | 270.000 |        | 550.000 |         |                                             |
|                                 | NATIONAL | IRELAND                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | ISRAEL                                               | 270.000 | 50.000 |         |         |                                             |
|                                 | NATIONAL | ITALY                                                | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | LATVIA                                               | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | ROMANIA                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | SPAIN                                                | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | SWEDEN                                               | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | SWITZERLAND                                          | 275.000 | 50.000 | 275.000 | 50.000  |                                             |
|                                 | NATIONAL | NETHERLANDS                                          | 275.000 |        |         |         |                                             |
|                                 | NATIONAL | TURKEY                                               | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND | 274.000 | 50.000 | 548.000 | 100.000 |                                             |
|                                 | NATIONAL | BULGARIA                                             | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | CZECHIA                                              | 270.000 |        | 550.000 |         |                                             |
|                                 | NATIONAL | CROATIA                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | ESTONIA                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | ICELAND                                              | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | LITHUANIA                                            | 250.000 | 50.000 | 400.000 | 75.000  |                                             |
|                                 | NATIONAL | NORWAY                                               | 270.000 | 5.000  |         |         |                                             |
|                                 | NATIONAL | POLAND                                               | 260.000 |        | 520.000 |         |                                             |
|                                 | NATIONAL | PORTUGAL                                             | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | RUSSIAN FEDERATION                                   |         |        |         | 10.000  |                                             |
|                                 | NATIONAL | SLOVAKIA                                             | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | SLOVENIA                                             | 275.000 | 50.000 | 550.000 | 100.000 |                                             |
|                                 | NATIONAL | UNITED STATES OF AMERICA                             |         | 50.000 |         |         |                                             |
| sodium hydroxide; caustic soda  | EU       | NNN                                                  | 275     | 50     | 550     | 100     | Skin                                        |
|                                 | NATIONAL | AUSTRALIA C                                          |         |        | 2       |         |                                             |
|                                 | NATIONAL | AUSTRIA                                              | 2.000   |        | 4.000   |         | Long term and short term: inhalable aerosol |
|                                 | NATIONAL | BELGIUM                                              | 2.000   |        |         |         |                                             |
|                                 | NATIONAL | CANADA C                                             |         |        | 2.000   |         | Ontario                                     |
|                                 | NATIONAL | CANADA C                                             |         |        | 2.000   |         | Quebec                                      |

|                                                                                               |          |                                                      |   |       |        |                                                    |
|-----------------------------------------------------------------------------------------------|----------|------------------------------------------------------|---|-------|--------|----------------------------------------------------|
| White mineral oil (petroleum)                                                                 | NATIONAL | DENMARK                                              |   | 2.000 | 2.000  |                                                    |
|                                                                                               | NATIONAL | FINLAND                                              | C |       | 2.000  |                                                    |
|                                                                                               | NATIONAL | FRANCE                                               |   | 2.000 |        |                                                    |
|                                                                                               | NATIONAL | HUNGARY                                              |   | 2.000 | 2.000  |                                                    |
|                                                                                               | NATIONAL | IRELAND                                              |   |       | 2.000  |                                                    |
|                                                                                               | NATIONAL | LATVIA                                               |   | 0.500 |        |                                                    |
|                                                                                               | NATIONAL | NEW ZEALAND                                          | C |       | 2.000  |                                                    |
|                                                                                               | NATIONAL | CHINA                                                | C |       | 2.000  |                                                    |
|                                                                                               | NATIONAL | POLAND                                               |   | 0.500 | 1.000  |                                                    |
|                                                                                               | NATIONAL | ROMANIA                                              |   | 1.000 | 3.000  |                                                    |
|                                                                                               | NATIONAL | SINGAPORE                                            |   |       | 2.000  |                                                    |
|                                                                                               | NATIONAL | KOREA, REPUBLIC OF                                   | C |       | 2.000  |                                                    |
|                                                                                               | NATIONAL | SPAIN                                                |   | 2.000 |        |                                                    |
|                                                                                               | NATIONAL | SWEDEN                                               |   | 1.000 | 1.000  | Long term and short term: inhalable fraction       |
|                                                                                               | NATIONAL | SWITZERLAND                                          |   | 2.000 | 2.000  | long term and short term: inhalable fraction       |
|                                                                                               | NATIONAL | UNITED STATES OF AMERICA                             | C |       | 2.000  | NIOSH                                              |
|                                                                                               | NATIONAL | UNITED STATES OF AMERICA                             | C | 2.000 |        | OSHA                                               |
|                                                                                               | NATIONAL | UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND |   |       | 2.000  |                                                    |
|                                                                                               | NATIONAL | BULGARIA                                             |   | 2.000 |        |                                                    |
|                                                                                               | NATIONAL | CZECHIA                                              |   | 1.000 | 2.000  |                                                    |
|                                                                                               | NATIONAL | ESTONIA                                              |   | 1.000 | 2.000  |                                                    |
|                                                                                               | NATIONAL | GREECE                                               |   | 2.000 | 2.000  |                                                    |
|                                                                                               | NATIONAL | SLOVAKIA                                             |   | 2.000 |        |                                                    |
|                                                                                               | NATIONAL | SLOVENIA                                             |   | 2.000 |        |                                                    |
|                                                                                               | NATIONAL | TAIWAN, PROVINCE OF CHINA                            |   | 2.000 |        |                                                    |
|                                                                                               | ACGIH    | NNN                                                  | C |       | 2.000  | URT, eye, and skin irr                             |
|                                                                                               | NATIONAL | GERMANY                                              |   | 5.000 | 20.000 | AGS; long term and short term: respirable fraction |
|                                                                                               | NATIONAL | GERMANY                                              |   | 5.000 | 20.000 | DFG; long term and short term: respirable fraction |
|                                                                                               | NATIONAL | ROMANIA                                              |   | 5.000 | 10.000 |                                                    |
|                                                                                               | NATIONAL | SWITZERLAND                                          |   | 5.000 |        | Inhalable fraction                                 |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | NATIONAL | AUSTRIA                                              |   | 0.050 |        |                                                    |
|                                                                                               | NATIONAL | GERMANY                                              |   | 0.200 | 0.400  | DFG; Long term and short term: inhalable fraction  |
|                                                                                               | NATIONAL | SWITZERLAND                                          |   | 0.200 | 0.400  | Inhalable fraction                                 |

|              |          |                                  |       |       |       |       |                                                                                                                     |
|--------------|----------|----------------------------------|-------|-------|-------|-------|---------------------------------------------------------------------------------------------------------------------|
| formaldehyde |          | ND                               |       |       |       |       |                                                                                                                     |
|              | NATIONAL | KOREA,<br>REPUBLIC<br>OF         | 0.100 |       |       |       |                                                                                                                     |
|              | NATIONAL | NETHERLA<br>NDS                  | 0.200 |       |       |       |                                                                                                                     |
|              | NATIONAL | AUSTRALIA                        | 1.200 | 1.000 | 2.500 | 2.000 |                                                                                                                     |
|              | NATIONAL | AUSTRIA                          | 0.370 | 0.300 |       |       |                                                                                                                     |
|              | NATIONAL | AUSTRIA C                        |       |       | 0.600 | 0.740 |                                                                                                                     |
|              | NATIONAL | BELGIUM                          |       |       | 0.380 | 0.300 |                                                                                                                     |
|              | NATIONAL | CANADA                           |       |       |       | 1.000 |                                                                                                                     |
|              | NATIONAL | CANADA C                         |       |       |       | 1.500 |                                                                                                                     |
|              | NATIONAL | CANADA C                         |       |       | 3.000 | 2.000 |                                                                                                                     |
|              | NATIONAL | DENMARK                          | 0.400 | 0.300 | 0.400 | 0.300 |                                                                                                                     |
|              | NATIONAL | FINLAND                          | 0.370 | 0.300 |       |       |                                                                                                                     |
|              | NATIONAL | FINLAND C                        |       |       | 1.200 | 1.000 |                                                                                                                     |
|              | NATIONAL | FRANCE                           |       | 0.500 |       | 1.000 |                                                                                                                     |
|              | NATIONAL | GERMANY                          | 0.370 | 0.300 | 0.740 | 0.600 | ASG                                                                                                                 |
|              | NATIONAL | GERMANY                          | 0.370 | 0.300 | 0.740 | 0.600 | DFG; Short term: a<br>momentary value of 1 ml/m <sup>3</sup><br>(1,2 mg/m <sup>3</sup> ) should not be<br>exceeded. |
|              | NATIONAL | HUNGARY                          | 0.600 |       | 0.600 |       |                                                                                                                     |
|              | NATIONAL | IRELAND                          | 2.500 | 2.000 | 2.500 | 2.000 |                                                                                                                     |
|              | NATIONAL | ISRAEL                           | 0.240 | 0.200 | 0.370 | 0.300 |                                                                                                                     |
|              | NATIONAL | LATVIA                           | 0.500 |       |       |       |                                                                                                                     |
|              | NATIONAL | NEW<br>ZEALAND                   |       | 0.330 |       |       | Short term: 12 hour shift                                                                                           |
|              | NATIONAL | NEW<br>ZEALAND C                 |       |       |       | 1.000 |                                                                                                                     |
|              | NATIONAL | NEW<br>ZEALAND C                 |       | 0.500 |       |       | 12 hour shift                                                                                                       |
|              | NATIONAL | CHINA C                          |       |       | 0.500 |       |                                                                                                                     |
|              | NATIONAL | POLAND                           | 0.500 |       | 1.000 |       |                                                                                                                     |
|              | NATIONAL | ROMANIA                          | 1.200 | 1.000 | 3.000 | 2.000 |                                                                                                                     |
|              | NATIONAL | SINGAPORE                        |       |       | 0.370 | 0.300 |                                                                                                                     |
|              | NATIONAL | KOREA,<br>REPUBLIC<br>OF         | 0.750 | 0.500 | 1.500 | 1.000 |                                                                                                                     |
|              | NATIONAL | SPAIN                            | 0.370 | 0.300 | 0.740 | 0.600 |                                                                                                                     |
|              | NATIONAL | SWEDEN                           | 0.370 | 0.300 | 0.740 | 0.600 |                                                                                                                     |
|              | NATIONAL | SWITZERLA<br>ND                  | 0.370 | 0.300 | 0.740 | 0.600 |                                                                                                                     |
|              | NATIONAL | NETHERLA<br>NDS                  | 0.150 |       |       | 0.500 |                                                                                                                     |
|              | NATIONAL | UNITED<br>STATES OF<br>AMERICA   |       | 0.016 |       |       | NIOSH                                                                                                               |
|              | NATIONAL | UNITED<br>STATES OF<br>AMERICA C |       |       |       | 0.100 | NIOSH                                                                                                               |
|              | NATIONAL | UNITED<br>STATES OF<br>AMERICA   |       | 0.750 |       | 2.000 | OSHA                                                                                                                |
|              | NATIONAL | UNITED<br>KINGDOM                | 2.500 | 2.000 | 2.500 | 2.000 |                                                                                                                     |

|                              |          |                                 |       |       |       |       |                                                 |
|------------------------------|----------|---------------------------------|-------|-------|-------|-------|-------------------------------------------------|
| 2-methylisothiazol-3(2H)-one | NATIONAL | ITALY                           | 0.370 | 0.300 | 0.740 | 0.600 | sensibilizzazione cutanea                       |
|                              | NATIONAL | BULGARIA                        | 1.000 |       | 2.000 |       |                                                 |
|                              | NATIONAL | CZECHIA                         | 0.500 |       | 1.000 |       |                                                 |
|                              | NATIONAL | CROATIA                         | 2.500 | 2.000 | 2.500 | 2.000 |                                                 |
|                              | NATIONAL | ESTONIA                         | 0.600 | 0.500 | 1.200 | 1.000 |                                                 |
|                              | NATIONAL | GREECE                          | 2.500 | 2.000 | 2.500 | 2.000 |                                                 |
|                              | NATIONAL | INDONESIA                       |       |       |       | 0.300 |                                                 |
|                              | NATIONAL | LITHUANIA                       |       |       | 0.600 | 0.500 |                                                 |
|                              | NATIONAL | SLOVAKIA                        | 0.370 | 0.300 | 0.740 | 0.600 |                                                 |
|                              | NATIONAL | SLOVENIA                        | 0.620 | 0.500 |       |       |                                                 |
|                              | NATIONAL | RUSSIAN<br>FEDERATIO<br>N       | 0.500 |       |       |       |                                                 |
|                              | NATIONAL | SOUTH<br>AFRICA                 | 2.500 | 2.000 | 1.200 | 1.000 |                                                 |
|                              | NATIONAL | TAIWAN,<br>PROVINCE<br>OF CHINA | 1.200 | 1.000 |       |       |                                                 |
|                              | ACGIH    | NNN                             |       | 0.100 |       | 0.300 | DSEN, RSEN, A1 - URT and eye<br>irr, URT cancer |
|                              | EU       | NNN                             | 0.370 | 0.300 | 0.740 | 0.600 | Dermal sensitisation                            |
|                              | NATIONAL | AUSTRIA                         | 0.050 |       |       |       |                                                 |
|                              | NATIONAL | GERMANY                         | 0.200 |       | 0.400 |       | DFG; long term: inhalable<br>fraction           |
|                              | NATIONAL | SWITZERLA<br>ND                 | 0.100 |       | 0.400 |       | Long term and short term:<br>inhalable fraction |
|                              | NATIONAL | SLOVENIA                        | 0.050 |       |       |       |                                                 |

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

| Component                                                                                                     | CAS-No.    | PNEC Limit   | Exposure Route                          | Exposure Frequency |
|---------------------------------------------------------------------------------------------------------------|------------|--------------|-----------------------------------------|--------------------|
| Silicic acid, potassium salt 1312-76-1<br>- lumps or aqueous<br>solutions of molar ratio<br>MR > 3.2          |            | 7.500 mg/l   | Freshwater                              |                    |
|                                                                                                               |            | 7.500 mg/l   | Intermittent releases<br>(freshwater)   |                    |
|                                                                                                               |            | 1.000 mg/l   | Marine water                            |                    |
|                                                                                                               |            | 348.000 mg/l | Secondary poisoning                     |                    |
| reaction mass of 5-<br>chloro-2-methyl-2H-<br>isothiazol-3-one and 2-<br>methyl-2H-isothiazol-3-<br>one (3:1) | 55965-84-9 | 3.390 µg/l   | Freshwater                              |                    |
|                                                                                                               |            | 3.390 µg/l   | Intermittent releases<br>(freshwater)   |                    |
|                                                                                                               |            | 3.390 µg/l   | Marine water                            |                    |
|                                                                                                               |            | 3.390 µg/l   | Intermittent releases<br>(marine water) |                    |
|                                                                                                               |            | 230.000 µg/l | Microorganisms in sewage<br>treatments  |                    |
|                                                                                                               |            | 27.000 µg/l  | Freshwater sediments                    |                    |
|                                                                                                               |            | 27.000 µg/l  | Marine water sediments                  |                    |

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

| Component                                                                                      | CAS-No.    | Worker Industry | Worker Professional      | Consumer                 | Exposure Route   | Exposure Frequency           |
|------------------------------------------------------------------------------------------------|------------|-----------------|--------------------------|--------------------------|------------------|------------------------------|
| Silicic acid, potassium salt 1312-76-1<br>- lumps or aqueous solutions of molar ratio MR > 3.2 |            |                 | 5.610 mg/m <sup>3</sup>  | 1.380 mg/m <sup>3</sup>  | Human Inhalation | Long Term, systemic effects  |
|                                                                                                |            |                 | 1.490 mg/kg              | 740.000 µg/kg            | Human Dermal     | Long Term, systemic effects  |
|                                                                                                |            |                 |                          | 740.000 µg/kg            | Human Oral       | Long Term, systemic effects  |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)  | 55965-84-9 |                 | 20.000 µg/m <sup>3</sup> | 20.000 µg/m <sup>3</sup> | Human Inhalation | Long Term, local effects     |
|                                                                                                |            |                 | 40.000 µg/m <sup>3</sup> | 20.000 µg/m <sup>3</sup> | Human Inhalation | Short Term, local effects    |
|                                                                                                |            |                 |                          | 90.000 µg/kg             | Human Oral       | Long Term, systemic effects  |
|                                                                                                |            |                 |                          | 110.000 µg/kg            | Human Oral       | Short Term, systemic effects |

**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.

Hygienic and Technical measures

N.A.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical State Liquid

Color: N.A.

Odour: N.A.

Odour threshold: N.A.

pH: =11.40

Kinematic viscosity: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: &gt; 93°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.49 g/cm<sup>3</sup>

Solubility in water: Miscible

Solubility in oil: N.A.

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

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: N.A.

Volatile Organic compounds - VOCs = 0.50 % ; 7.41 g/l

**Particle characteristics:**

Particle size: N.A.

**9.2. Other information**

Miscibility: N.A.

Conductivity: N.A.

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

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

Silicic acid, potassium salt a) acute toxicity LD50 Oral Rat > 5000.00 mg/kg  
- lumps or aqueous solutions of molar ratio  
MR > 3.2

LC50 Inhalation Vapour Rat > 2.06 mg/l 4h

LD50 Skin Rat > 5000.00 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 > 159.00 mg/kg   |                  |
| Quartz                                                                                        | a) acute toxicity                    | LD50 Oral > 2000.00000 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 = 69.00 mg/kg                                |                  |
|                                                                                               |                                      | LD50 Skin Rabbit = 141.00 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 = 22.70000 mg/kg |                  |

## 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

| Component                                                                                     | Ident. Numb.                             | Ecotox Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Silicic acid, potassium salt - lumps or aqueous solutions of molar ratio MR > 3.2             | CAS: 1312-76-1<br>- EINECS: 215-199-1    | a) Aquatic acute toxicity : LC50 Fish <i>Leuciscus idus</i> > 146.00 mg/L 96h DIN 38412<br><br>a) Aquatic acute toxicity : EC50 <i>Daphnia magna</i> > 146.00 mg/L 24h OECD 202<br><br>a) Aquatic acute toxicity : EC50 <i>Algae Scenedesmus subspicatus</i> = 207.00 mg/L 72h OECD guideline 201<br><br>c) Bacteria toxicity : EC0 <i>Sludge Pseudomonas putida</i> > 1000.00 mg/L OECD 209 - 18hr                                                                                                                                                                                                                                                                                                                                           |
| 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 | a) Aquatic acute toxicity : LC50 Fish <i>Oncorhynchus mykiss</i> = 0.19000 mg/L 96h EPA OPP 72-1 (Fish Acute Toxicity Test)<br><br>b) Aquatic chronic toxicity : NOEC Fish <i>Danio rerio</i> = 0.02000 mg/L „OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test) - 35days<br><br>a) Aquatic acute toxicity : LC50 <i>Daphnia magna</i> = 0.16000 mg/L 48h EPA OPP 72-2 (Aquatic Invertebrate Acute Toxicity Test)<br><br>b) Aquatic chronic toxicity : NOEC <i>Daphnia magna</i> = 0.10000 mg/L EPA OPP 72-4 (Fish Early Life-Stage and Aquatic Invertebrate Life-Cycle Studies) - 21days<br><br>a) Aquatic acute toxicity : EC50 <i>Algae Skeletonema costatum</i> = 0.00 mg/L 96h „OECD Guideline 201 (Alga, Growth Inhibition Test) |

a) Aquatic acute toxicity : EC50 Sludge activated sludge = 4.50000 mg/L 3h „OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 613.00000 mg/kg „OECD Guideline 207 (Earthworm, Acute Toxicity Tests) - 14days

e) Plant toxicity : NOEC Trifolium pratense, Oryza sativa, Brassica napus = 1000.00000 mg/L OECD Guideline 208 (Terrestrial Plants Test: Seedling Emergence and Seedling Growth Test) - 21days

## 12.2. Persistence and degradability

| Component                                                                                     | Persitence/Degradability: |
|-----------------------------------------------------------------------------------------------|---------------------------|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Non-readily biodegradable |

## 12.3. Bioaccumulative potential

| Component                                                                                     | Bioaccumulation | Test                          | Value  | Notes |
|-----------------------------------------------------------------------------------------------|-----------------|-------------------------------|--------|-------|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | Bioaccumulative | BCF - Bioconcentration factor | 54.000 | ≤ 54  |

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

## 12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

## 12.7 Other adverse effects

N.A.

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## 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.

A waste code according to European waste catalogue (EWC) 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):

HP 14: Ecotoxic

---

## SECTION 14: Transport information

### 14.1. UN number or ID number

N/A

### 14.2. UN proper shipping name

ADR-Shipping Name: N/A

IATA-Technical name: N/A

IMDG-Technical name: N/A

### 14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

### 14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

### 14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

### 14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: N/A

ADR - Hazard identification number: N/A  
ADR-Special Provisions: N/A  
ADR-Transport category (Tunnel restriction code): N/A  
ADR Limited Quantities: N/A  
ADR Excepted Quantities: N/A

Air ( IATA ) :

IATA-Passenger Aircraft: N/A  
IATA-Cargo Aircraft: N/A  
IATA-Label: N/A  
IATA-Subsidiary hazards: N/A  
IATA-Erg: N/A  
IATA-Special Provisioning: N/A

Sea ( IMDG ) :

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

#### **14.7. Maritime transport in bulk according to IMO instruments**

N.A.

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### **SECTION 15: Regulatory information**

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

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

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

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

Regulation (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. 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: 28, 40, 55, 72, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

#### **Regulation (EU) 649/2012 (PIC regulation):**

No Substance Listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No data available

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

(ready to use)

Volatile Organic compounds - VOCs = 0.50 %

Volatile Organic compounds - VOCs = 7.41 g/L

## REGULATION (EU) No 528/2012

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:**

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 15. REGULATORY INFORMATION