



Safety Data Sheet according to (EC) No 1907/2006 as amended

Page 1 of 23

UniBond Bath&Kitchen White pressure pack

SDS No. : 682752
V003.0

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

1.1. Product identifier

UniBond Bath&Kitchen White pressure pack

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

Intended use:

Joint sealant, silicone

1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Serious eye irritation

Category 2

H319 Causes serious eye irritation.

Flammable aerosols

Category 3

H229 Pressurized container: May burst if heated.

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



| | |
|---------------------------------|--|
| Signal word: | Warning |
| Hazard statement: | H229 Pressurized container: May burst if heated. H319 Causes serious eye irritation. |
| Supplemental information | Contains: 2-Octyl-2H-isothiazol-3-one May produce an allergic reaction. |
| Precautionary statement: | P102 Keep out of reach of children. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
 Pregnant women should absolutely avoid inhalation and skin contact.
 Evolves methanol during cure.
 This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Following substances are present in a concentration \geq the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

| | |
|--|----------|
| Decamethylcyclopentasiloxane 541-02-6 | PBT/vPvB |
| octamethylcyclotetrasiloxane 556-67-2 | PBT/vPvB |

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

| Hazardous components CAS-No. EC Number REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|--|---|---|--|-------------------------|
| Titanium tetrabutanolate 5593-70-4 227-006-8 01-2119967423-33 | 1- < 3 % | Skin Irrit. 2, Dermal, H315 Eye Dam. 1, H318 Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 | | |
| Decamethylcyclopentasiloxane 541-02-6 208-764-9 01-2119511367-43 | 0,1- < 1 % | | | SVHC PBT/vPvB |
| octamethylcyclotetrasiloxane 556-67-2 209-136-7 01-2119529238-36 | 0,1- < 1 % | Aquatic Chronic 1, H410 Repr. 2, H361f Flam. Liq. 3, H226 | M chronic = 10 | SVHC PBT/vPvB |
| methanol 67-56-1 200-659-6 01-2119433307-44 | 0,1- < 1 % | Flam. Liq. 2, H225 Acute Tox. 3, Inhalation, H331 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Oral, H301 STOT SE 1, H370 | STOT SE 1; H370; C >= 10 % STOT SE 2; H371; C 3 - < 10 % ===== oral:ATE = 300 mg/kg | EU OEL |
| Trimethoxyvinylsilane 2768-02-7 220-449-8 01-2119513215-52 | 0,1- < 1 % | Flam. Liq. 3, H226 Acute Tox. 4, Inhalation, H332 STOT RE 2, H373 Skin Sens. 1B, H317 | | |
| thiabendazol 148-79-8 205-725-8 | 0,1- < 0,25 % | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M acute = 1 M chronic = 1 | |
| Titanium dioxide 13463-67-7 236-675-5 01-2119489379-17 | 0,1- < 1 % | Carc. 2, Inhalation, H351 | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 247-761-7 01-2120768921-45 | 0,005- < 0,05 % (50 ppm- < 500 ppm) | Acute Tox. 2, Inhalation, H330 Acute Tox. 3, Dermal, H311 Skin Corr. 1, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Acute Tox. 3, Oral, H301 Aquatic Chronic 1, H410 Eye Dam. 1, H318 | Skin Sens. 1A; H317; C >= 0,0015 % ===== M acute = 100 M chronic = 100 ===== dermal:ATE = 311 mg/kg oral:ATE = 125 mg/kg inhalation:ATE = 0,27 mg/l;dust/mist | |

**For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.**

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remain (intensive smarting, sensitivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

May cause an allergic skin reaction.

Causes serious eye irritation.

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

See section: Description of first aid measures

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media:**

carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:

High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO₂) can be released.

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

Additional information:

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

Transport by automobile: leave the container wrapped in a cloth in the trunk, never in the passenger area.

Container may burst when heated to over 50°C. The contents may form explosive, combustible mixture. Avoid ignition sources and naked flames. Comply with warning on container label.

Avoid skin and eye contact.

Hygiene measures:

- Wash hands before work breaks and after finishing work.
- Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

- For pressurized can: protect from direct sunshine and temperatures above 50°C.
- Store in a cool, frost-free place.
- Store in a dry place.
- Temperatures between 0 °C and + 30 °C
- Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

- Joint sealant, silicone

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Great Britain

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Methanol 67-56-1 [METHANOL] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Methanol 67-56-1 [METHANOL] | 200 | 266 | Time Weighted Average (TWA): | | EH40 WEL |
| Methanol 67-56-1 [METHANOL] | 200 | 260 | Time Weighted Average (TWA): | Indicative | ECTLV |
| Methanol 67-56-1 [METHANOL] | 250 | 333 | Short Term Exposure Limit (STEL): | 15 minutes | EH40 WEL |

Occupational Exposure Limits

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|--|-----|-------------------|------------------------------|--|-----------------|
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Methanol 67-56-1 [METHANOL] | 200 | 260 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Methanol 67-56-1 [METHANOL] | | | Skin designation: | Can be absorbed through the skin. | IR_OEL |
| Methanol 67-56-1 [METHANOL] | 200 | 260 | Time Weighted Average (TWA): | Indicative | ECTLV |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|--|---------------------------------|-----------------|--------------|-----|-------------|--------|----------------------------------|
| | | | mg/l | ppm | mg/kg | others | |
| Titanium tetrabutanolate 5593-70-4 | aqua (freshwater) | | 0,08 mg/l | | | | |
| Titanium tetrabutanolate 5593-70-4 | aqua (intermittent releases) | | 2,25 mg/l | | | | |
| Titanium tetrabutanolate 5593-70-4 | aqua (marine water) | | 0,008 mg/l | | | | |
| Titanium tetrabutanolate 5593-70-4 | sewage treatment plant (STP) | | 65 mg/l | | | | |
| Titanium tetrabutanolate 5593-70-4 | sediment (freshwater) | | | | 0,069 mg/kg | | |
| Titanium tetrabutanolate 5593-70-4 | sediment (marine water) | | | | 0,007 mg/kg | | |
| Titanium tetrabutanolate 5593-70-4 | Soil | | | | 0,017 mg/kg | | |
| Titanium tetrabutanolate 5593-70-4 | Predator | | | | | | no potential for bioaccumulation |
| Decamethylcyclotetrasiloxane 541-02-6 | aqua (freshwater) | | 0,0012 mg/l | | | | |
| Decamethylcyclotetrasiloxane 541-02-6 | aqua (marine water) | | 0,00012 mg/l | | | | |
| Decamethylcyclotetrasiloxane 541-02-6 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| Decamethylcyclotetrasiloxane 541-02-6 | sediment (freshwater) | | | | 11 mg/kg | | |
| Decamethylcyclotetrasiloxane 541-02-6 | Soil | | | | 2,54 mg/kg | | |
| Decamethylcyclotetrasiloxane 541-02-6 | oral | | | | 16 mg/kg | | |
| Decamethylcyclotetrasiloxane 541-02-6 | sediment (marine water) | | | | 1,1 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (freshwater) | | 0,0015 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | aqua (marine water) | | 0,00015 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sewage treatment plant (STP) | | 10 mg/l | | | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (freshwater) | | | | 3 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | sediment (marine water) | | | | 0,3 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | oral | | | | 41 mg/kg | | |
| Octamethylcyclotetrasiloxane 556-67-2 | Soil | | | | 0,54 mg/kg | | |
| methanol 67-56-1 | aqua (freshwater) | | | | | | no hazard identified |
| methanol 67-56-1 | sediment (freshwater) | | | | | | no hazard identified |
| methanol 67-56-1 | aqua (marine water) | | | | | | no hazard identified |
| methanol 67-56-1 | Soil | | | | | | no hazard identified |
| methanol 67-56-1 | sewage treatment plant (STP) | | | | | | no hazard identified |
| methanol 67-56-1 | aqua (intermittent releases) | | | | | | no hazard identified |
| methanol 67-56-1 | sediment (marine water) | | | | | | no hazard identified |
| Trimethoxyvinylsilane 2768-02-7 | aqua (freshwater) | | 0,4 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (marine water) | | 0,04 mg/l | | | | |
| Trimethoxyvinylsilane | Freshwater - | | 1,21 mg/l | | | | |

| | | | | | | | |
|---|------------------------------------|--|-----------------|--|------------------|--|--|
| 2768-02-7 | intermittent | | | | | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (freshwater) | | | | 1,5 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | sediment (marine water) | | | | 0,15 mg/kg | | |
| Trimethoxyvinylsilane 2768-02-7 | Soil | | | | 0,06 mg/kg | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | sediment (freshwater) | | | | 0,0475 mg/kg | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | sediment (marine water) | | | | 0,00475 mg/kg | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | aqua (freshwater) | | 0,0022 mg/l | | | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | aqua (intermittent releases) | | 0,0012 mg/l | | | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | aqua (marine water) | | 0,00022 mg/l | | | | |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | Soil | | | | 0,0082 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|--|--------------------|-------------------|--|---------------|------------|----------------------------------|
| Titanium tetrabutanolate 5593-70-4 | General population | oral | Long term exposure - systemic effects | | 3,75 mg/kg | no potential for bioaccumulation |
| Titanium tetrabutanolate 5593-70-4 | General population | dermal | Long term exposure - systemic effects | | 37,5 mg/kg | no potential for bioaccumulation |
| Titanium tetrabutanolate 5593-70-4 | General population | inhalation | Long term exposure - systemic effects | | 152 mg/m3 | no potential for bioaccumulation |
| Titanium tetrabutanolate 5593-70-4 | Workers | inhalation | Long term exposure - systemic effects | | 127 mg/m3 | no potential for bioaccumulation |
| Decamethylcyclotrasiloxane 541-02-6 | Workers | inhalation | Long term exposure - systemic effects | | 97,3 mg/m3 | |
| Decamethylcyclotrasiloxane 541-02-6 | Workers | inhalation | Long term exposure - local effects | | 24,2 mg/m3 | |
| Decamethylcyclotrasiloxane 541-02-6 | General population | oral | Long term exposure - systemic effects | | 5 mg/kg | |
| Decamethylcyclotrasiloxane 541-02-6 | General population | inhalation | Long term exposure - systemic effects | | 17,3 mg/m3 | |
| Decamethylcyclotrasiloxane 541-02-6 | General population | inhalation | Long term exposure - local effects | | 4,3 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - systemic effects | | 73 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | Workers | inhalation | Long term exposure - local effects | | 73 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - systemic effects | | 13 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | inhalation | Long term exposure - local effects | | 13 mg/m3 | |
| Octamethylcyclotetrasiloxane 556-67-2 | General population | oral | Long term exposure - systemic effects | | 3,7 mg/kg | |
| methanol 67-56-1 | Workers | inhalation | Long term exposure - systemic effects | | 260 mg/m3 | no hazard identified |
| methanol 67-56-1 | Workers | inhalation | Acute/short term exposure - systemic effects | | 260 mg/m3 | no hazard identified |
| methanol 67-56-1 | Workers | inhalation | Long term exposure - local effects | | 260 mg/m3 | no hazard identified |
| methanol 67-56-1 | Workers | inhalation | Acute/short term exposure - local effects | | 260 mg/m3 | no hazard identified |
| methanol 67-56-1 | Workers | dermal | Long term exposure - systemic effects | | 40 mg/kg | no hazard identified |
| methanol 67-56-1 | Workers | dermal | Acute/short term exposure - systemic effects | | 40 mg/kg | no hazard identified |
| methanol 67-56-1 | General population | inhalation | Long term exposure - systemic effects | | 50 mg/m3 | no hazard identified |
| methanol 67-56-1 | General population | inhalation | Acute/short term exposure - systemic effects | | 50 mg/m3 | no hazard identified |
| methanol 67-56-1 | General population | inhalation | Long term exposure - local effects | | 50 mg/m3 | no hazard identified |
| methanol 67-56-1 | General population | inhalation | Acute/short term exposure - local effects | | 50 mg/m3 | no hazard identified |

| | | | effects | | | |
|------------------------------------|--------------------|------------|--|--|-------------|----------------------|
| methanol 67-56-1 | General population | dermal | Long term exposure - systemic effects | | 8 mg/kg | no hazard identified |
| methanol 67-56-1 | General population | dermal | Acute/short term exposure - systemic effects | | 8 mg/kg | no hazard identified |
| methanol 67-56-1 | General population | oral | Long term exposure - systemic effects | | 8 mg/kg | no hazard identified |
| methanol 67-56-1 | General population | oral | Acute/short term exposure - systemic effects | | 8 mg/kg | no hazard identified |
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Long term exposure - systemic effects | | 0,91 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | inhalation | Long term exposure - systemic effects | | 27,6 mg/m3 | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Long term exposure - systemic effects | | 0,63 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | General population | inhalation | Long term exposure - systemic effects | | 6,8 mg/m3 | |
| Trimethoxyvinylsilane 2768-02-7 | General population | oral | Long term exposure - systemic effects | | 0,63 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | inhalation | Acute/short term exposure - systemic effects | | 73,6 mg/m3 | |
| Trimethoxyvinylsilane 2768-02-7 | General population | inhalation | Acute/short term exposure - systemic effects | | 54,4 mg/m3 | |
| Titanium dioxide 13463-67-7 | Workers | inhalation | Long term exposure - local effects | | 0,17 mg/m3 | |
| Titanium dioxide 13463-67-7 | General population | inhalation | Long term exposure - local effects | | 0,028 mg/m3 | |

Biological Exposure Indices:

None

8.2. Exposure controls:**Respiratory protection:**

The product should only be used at workplaces with intensive ventilation/extraction. If intensive ventilation/extraction is not possible then self-contained independent respiratory protection should be worn.

Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
material thickness > 0.4 mm

Perforation time > 30 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

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

| | |
|--|---|
| Physical state | solid |
| Delivery form | paste, pressurized can |
| Colour | white |
| Odor | alcohol-like |
| Melting point | < -50 °C (< -58 °F) |
| Solidification temperature | Not applicable, Product is a solid. |
| Initial boiling point | Currently under determination |
| Flammability | The product is not flammable. |
| Explosive limits | Not applicable, Product is a solid. |
| Flash point | Not applicable, Product is a solid. |
| Auto-ignition temperature | Not applicable, Product is a solid. |
| Decomposition temperature | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| pH | Not applicable, Product is non-soluble (in water). |
| Viscosity (kinematic) | Not applicable, Product is a solid. |
| Solubility (qualitative) | Insoluble |
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable |
| | Mixture |
| Vapour pressure | < 0,5 Pa |
| (20 °C (68 °F)) | |
| Density | 1,04 g/cm ³ no method |
| (20 °C (68 °F)) | |
| Relative vapour density: | Not applicable, Product is a solid. |
| Particle characteristics | Not applicable, mixture is a paste. |

9.2. Other information

Other information not applicable for this product

SECTION 10: Stability and reactivity**10.1. Reactivity**

None if used for intended purpose.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Temperatures over appr. 50 °C

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

Evolves methanol during cure.

SECTION 11: Toxicological information**1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|--|---------------|---------|---|
| Titanium tetrabutanolate 5593-70-4 | LD50 | 3.122 mg/kg | rat | not specified |
| Decamethylcyclopentasiloxane 541-02-6 | LD50 | > 5.000 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 4.800 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |
| methanol 67-56-1 | Acute toxicity estimate (ATE) | 300 mg/kg | | Expert judgement |
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 7.120 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| thiabendazol 148-79-8 | LD50 | > 5.000 mg/kg | rat | not specified |
| Titanium dioxide 13463-67-7 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | Acute toxicity estimate (ATE) | 125 mg/kg | | Expert judgement |

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|--|----------------|---------|---|
| Titanium tetrabutanolate 5593-70-4 | LD50 | 5.300 mg/kg | rabbit | not specified |
| Decamethylcyclopentasiloxane 541-02-6 | LD50 | > 2.000 mg/kg | rabbit | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| octamethylcyclotetrasiloxane 556-67-2 | LD50 | > 2.375 mg/kg | rat | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 3.200 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| thiabendazol 148-79-8 | LD50 | > 4.000 mg/kg | rabbit | not specified |
| Titanium dioxide 13463-67-7 | LD50 | > 10.000 mg/kg | rabbit | not specified |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | Acute toxicity estimate (ATE) | 311 mg/kg | | Expert judgement |

Acute inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation.
In the event of protracted or repeated exposure, damage to health cannot be excluded.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|-------------------------------|-------------|-----------------|------------------|---------|--|
| Titanium tetrabutanolate 5593-70-4 | LC50 | 11 mg/l | dust/mist | 4 h | rat | not specified |
| Decamethylcyclopentasiloxane 541-02-6 | LC50 | 8,67 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| octamethylcyclotetrasiloxane 556-67-2 | LC50 | 36 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 16,8 mg/l | vapour | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |
| thiabendazol 148-79-8 | LC50 | > 6,84 mg/l | dust/mist | 4 h | rat | not specified |
| Titanium dioxide 13463-67-7 | LC50 | > 6,82 mg/l | dust | 4 h | rat | not specified |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | Acute toxicity estimate (ATE) | 0,27 mg/l | dust/mist | 4 h | | Expert judgement |

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|----------------|------------------|---------|---|
| Decamethylcyclopentasiloxane 541-02-6 | not irritating | 24 h | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| octamethylcyclotetrasiloxane 556-67-2 | not irritating | | rabbit | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| methanol 67-56-1 | not irritating | 20 h | rabbit | BASF Test |
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | other guideline: |
| Titanium dioxide 13463-67-7 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |

Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|--|----------------|------------------|---------|--|
| Decamethylcyclopentasiloxane 541-02-6 | not irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| octamethylcyclotetrasiloxane 556-67-2 | not irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| methanol 67-56-1 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Titanium dioxide 13463-67-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|---|-----------------|------------------------------------|----------------|--|
| Decamethylcyclopentasiloxane 541-02-6 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| octamethylcyclotetrasiloxane 556-67-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| methanol 67-56-1 | not sensitising | Guinea pig maximisation test | guinea pig | equivalent or similar to OECD Guideline 406 (Skin Sensitisation) |
| Trimethoxyvinylsilane 2768-02-7 | sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| Titanium dioxide 13463-67-7 | not sensitising | Mouse local lymphnode assay (LLNA) | mouse | equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| Titanium dioxide 13463-67-7 | not sensitising | Buehler test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Type of study / Route of administration | Metabolic activation / Exposure time | Species | Method |
|--|---------------|--|---|----------------|---|
| Decamethylcyclopentasiloxane 541-02-6 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Decamethylcyclopentasiloxane 541-02-6 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Decamethylcyclopentasiloxane 541-02-6 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| octamethylcyclotetrasiloxane 556-67-2 | negative | bacterial gene mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| octamethylcyclotetrasiloxane 556-67-2 | negative | in vitro mammalian chromosome aberration test | with and without | | equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| octamethylcyclotetrasiloxane 556-67-2 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| methanol 67-56-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| methanol 67-56-1 | negative | in vitro mammalian cell micronucleus test | without | | not specified |
| methanol 67-56-1 | negative | mammalian cell gene mutation assay | with and without | | equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Trimethoxyvinylsilane 2768-02-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Trimethoxyvinylsilane 2768-02-7 | positive | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Trimethoxyvinylsilane 2768-02-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Titanium dioxide 13463-67-7 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| Titanium dioxide 13463-67-7 | negative | in vitro mammalian chromosome aberration test | with and without | | OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) |
| Titanium dioxide 13463-67-7 | negative | mammalian cell gene mutation assay | with and without | | OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) |
| Titanium dioxide 13463-67-7 | negative | in vitro mammalian cell micronucleus test | without | | equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test) |

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous components CAS-No. | Result | Route of application | Exposure time / Frequency of treatment | Species | Sex | Method |
|--|------------------|-----------------------|--|---------|-------------|--|
| Decamethylcyclopentasiloxane 541-02-6 | not carcinogenic | inhalation: vapour | 2 y 6 h/d, 5 d/w | rat | male/female | EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity) |
| methanol 67-56-1 | not carcinogenic | inhalation: vapour | 18 m 19 h/d | mouse | male/female | equivalent or similar OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Titanium dioxide 13463-67-7 | not carcinogenic | oral: feed | 103 w daily | rat | male/female | not specified |

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Test type | Route of application | Species | Method |
|--|---|----------------------|-----------------------|---------|---|
| Decamethylcyclopentasiloxane 541-02-6 | NOAEL P >= 2,496 mg/l NOAEL F1 >= 2,496 mg/l NOAEL F2 >= 2,496 mg/l | two-generation study | inhalation: vapour | rat | EPA OPPTS 870.3800 (Reproduction and Fertility Effects) |
| octamethylcyclotetrasiloxane 556-67-2 | NOAEL P 300 ppm NOAEL F1 300 ppm | two-generation study | inhalation | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| methanol 67-56-1 | NOAEL P 1,3 mg/l NOAEL F1 0,13 mg/l NOAEL F2 0,13 mg/l | Two generation study | inhalation | rat | equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL P 250 mg/kg | one-generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL P 1.000 mg/kg | one-generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL F1 1.000 mg/kg | one-generation study | oral: gavage | rat | OECD Combined Repeated Dose and Reproductive / Developmental Toxicity Screening Test (Precursor Protocol of GL 422) |
| Titanium dioxide 13463-67-7 | NOAEL P >= 1.000 mg/kg NOAEL F1 >= 1.000 mg/kg | one-generation study | oral: feed | rat | OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study) |

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result / Value | Route of application | Exposure time / Frequency of treatment | Species | Method |
|--|----------------------|-------------------------|--|---------|---|
| Decamethylcyclopentasiloxane 541-02-6 | NOAEL >= 1.000 mg/kg | oral: gavage | 13 w daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| Decamethylcyclopentasiloxane 541-02-6 | NOAEL >= 2,42 mg/l | inhalation: vapour | 2 y 6 h/d, 5 d/w | rat | equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Decamethylcyclopentasiloxane 541-02-6 | NOAEL >= 1.600 mg/kg | oral: gavage | 28 d 6 h/d, 7 d/w | rat | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| octamethylcyclotetrasiloxane 556-67-2 | LOAEL 35 ppm | inhalation | 6 h nose only inhalation 5 days/week for 13 weeks | rat | OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| octamethylcyclotetrasiloxane 556-67-2 | NOAEL 960 mg/kg | dermal | 3 w 5 d/w | rabbit | equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study) |
| methanol 67-56-1 | NOAEL 6,63 mg/l | inhalation: vapour | 4 weeks 6 h/d, 5 d/w | rat | equivalent or similar to OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day) |
| methanol 67-56-1 | NOAEL 0,13 mg/l | inhalation: vapour | 12 m 20 h/d | rat | equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL < 62,5 mg/kg | oral: gavage | 42d daily | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| Trimethoxyvinylsilane 2768-02-7 | NOAEL 0,605 mg/l | inhalation: vapour | 5 days/week for 14 weeks 6 hours/day | rat | not specified |
| Titanium dioxide 13463-67-7 | NOAEL > 1.000 mg/kg | oral: gavage | 92 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |

Aspiration hazard:

No data available.

11.2 Information on other hazards

not applicable

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|--|--|
| Decamethylcyclopentasiloxane 541-02-6 | LC50 | Toxicity > Water solubility | 96 h | Leuciscus idus | OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study) |
| Decamethylcyclopentasiloxane 541-02-6 | NOEC | Toxicity > Water solubility | 90 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 0,0044 mg/l | 93 d | Salmo gairdneri (new name: Oncorhynchus mykiss) | EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test) |
| octamethylcyclotetrasiloxane 556-67-2 | LC50 | Toxicity > Water solubility | 96 h | Oncorhynchus mykiss | EPA OTS 797.1400 (Fish Acute Toxicity Test) |
| methanol 67-56-1 | LC50 | 15.400 mg/l | 96 h | Lepomis macrochirus | EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians) |
| methanol 67-56-1 | NOEC | 7.900 mg/l | 200 h | Oryzias latipes | OECD Guideline 210 (fish early lite stage toxicity test) |
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 191 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| thiabendazol 148-79-8 | LC50 | 0,55 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| thiabendazol 148-79-8 | NOEC | 0,012 mg/l | 69 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | 48 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | LC50 | 0,036 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | NOEC | 0,022 mg/l | 21 d | Oncorhynchus mykiss | OECD Guideline 210 (fish early lite stage toxicity test) |

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|---------------|---|
| Decamethylcyclopentasiloxane 541-02-6 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids) |
| methanol 67-56-1 | EC50 | 18.260 mg/l | 96 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Trimethoxyvinylsilane 2768-02-7 | EC50 | 168,7 mg/l | 48 h | Daphnia magna | EU Method C.2 (Acute Toxicity for Daphnia) |
| thiabendazol 148-79-8 | EC50 | 0,81 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | EC50 | 0,42 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|---------------|--|
| Decamethylcyclopentasiloxane 541-02-6 | NOEC | Toxicity > Water solubility | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 7.9 µg/l | 21 d | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |
| Trimethoxyvinylsilane 2768-02-7 | NOEC | 28,1 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| thiabendazol 148-79-8 | NOEC | 0,041 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 21 d | Daphnia magna | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | NOEC | 0,0016 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

Toxicity (Algae):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---------------|--------------------------------|---------------|---|--|
| Titanium tetrabutanolate 5593-70-4 | EC50 | 225 mg/l | 96 h | Algae, algal mat (Algae) | not specified |
| Decamethylcyclopentasiloxane 541-02-6 | NOEC | Toxicity > Water solubility | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Decamethylcyclopentasiloxane 541-02-6 | EC50 | Toxicity > Water solubility | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| octamethylcyclotetrasiloxane 556-67-2 | EC10 | 0,022 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) |
| methanol 67-56-1 | EC50 | 22.000 mg/l | 96 h | Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 957 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| Trimethoxyvinylsilane 2768-02-7 | NOEC | 957 mg/l | 72 h | Desmodesmus subspicatus | EU Method C.3 (Algal Inhibition test) |
| thiabendazol 148-79-8 | IC50 | 14,7 mg/l | 96 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| thiabendazol 148-79-8 | NOEC | 0,53 mg/l | 96 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | EC50 | 0,00129 mg/l | 48 h | Navicula pelliculosa | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | EC10 | 0,000224 mg/l | 48 h | Navicula pelliculosa | OECD Guideline 201 (Alga, Growth Inhibition Test) |

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|--|--|
| Decamethylcyclopentasiloxane 541-02-6 | EC50 | > 2.000 mg/l | 3 h | activated sludge, domestic | EU Method C.11 (Biodegradation: Activated Sludge Respiration Inhibition Test) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |
| methanol 67-56-1 | IC50 | > 1.000 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| Trimethoxyvinylsilane 2768-02-7 | EC50 | > 100 mg/l | 3 h | activated sludge of a predominantly domestic sewage | OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) |
| thiabendazol 148-79-8 | EC0 | > 500 mg/l | 30 min | Pseudomonas putida | DIN 38412, part 27 (Bacterial oxygen consumption test) |
| Titanium dioxide 13463-67-7 | EC0 | Toxicity > Water solubility | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|----------------------------|-----------|---------------|------------------|--|
| Titanium tetrabutanolate 5593-70-4 | readily biodegradable | aerobic | > 60 % | 28 d | OECD 301 A - F |
| Decamethylcyclopentasiloxane 541-02-6 | not readily biodegradable. | aerobic | 0,14 % | 28 d | OECD Guideline 310 (Ready BiodegradabilityCO ₂ in Sealed Vessels (Headspace Test) |
| octamethylcyclotetrasiloxane 556-67-2 | not readily biodegradable. | aerobic | 3,7 % | 29 d | OECD Guideline 310 (Ready BiodegradabilityCO ₂ in Sealed Vessels (Headspace Test) |
| methanol 67-56-1 | readily biodegradable | aerobic | 82 - 92 % | 30 d | EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test) |
| Trimethoxyvinylsilane 2768-02-7 | not readily biodegradable. | aerobic | 51 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| thiabendazol 148-79-8 | not readily biodegradable. | aerobic | > 0 - < 60 % | 28 day | OECD 301 A - F |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | not readily biodegradable. | aerobic | 35 % | 21 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|--|----------------------------------|---------------|-------------|--------------------------|---|
| Decamethylcyclopentasiloxane 541-02-6 | 7.060 | 35 d | | Pimephales promelas | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |
| octamethylcyclotetrasiloxane 556-67-2 | 12.400 | 28 d | | Pimephales promelas | EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout) |
| methanol 67-56-1 | < 10 | 72 h | | Leuciscus idus melanotus | not specified |
| thiabendazol 148-79-8 | 97 | | | not specified | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|---|--------|-------------|--|
| Decamethylcyclopentasiloxane 541-02-6 | 8,07 | 24,6 °C | other guideline: |
| octamethylcyclotetrasiloxane 556-67-2 | 6,98 | 21,7 °C | other guideline: |
| methanol 67-56-1 | -0,77 | | other guideline: |
| thiabendazol 148-79-8 | 2,47 | 25 °C | EU Method A.8 (Partition Coefficient) |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | 2,9 | | OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method) |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT / vPvB |
|---|---|
| Titanium tetrabutanolat 5593-70-4 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Decamethylcyclopentasiloxane 541-02-6 | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| octamethylcyclotetrasiloxane 556-67-2 | Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| methanol 67-56-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Trimethoxyvinylsilane 2768-02-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Titanium dioxide 13463-67-7 | According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances. |
| 2-Octyl-2H-isothiazol-3-one 26530-20-1 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. Endocrine disrupting properties

not applicable

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

080409

| |
|--|
| SECTION 14: Transport information |
|--|

14.1. UN number or ID number

| | |
|------|------|
| ADR | 1950 |
| RID | 1950 |
| ADN | 1950 |
| IMDG | 1950 |
| IATA | 1950 |

14.2. UN proper shipping name

| | |
|------|-------------------------|
| ADR | AEROSOLS |
| RID | AEROSOLS |
| ADN | AEROSOLS |
| IMDG | AEROSOLS |
| IATA | Aerosols, non-flammable |

14.3. Transport hazard class(es)

| | |
|------|-----|
| ADR | 2.2 |
| RID | 2.2 |
| ADN | 2.2 |
| IMDG | 2.2 |
| IATA | 2.2 |

14.4. Packing group

ADR
RID
ADN
IMDG
IATA

14.5. Environmental hazards

| | |
|------|----------------|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.6. Special precautions for user

| | |
|------|-----------------------------------|
| ADR | not applicable Tunnelcode: (E) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

14.7. Maritime transport in bulk according to IMO instruments

not applicable

| |
|---|
| SECTION 15: Regulatory information |
|---|

No information available:

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

| | |
|---|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H311 Toxic in contact with skin.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H330 Fatal if inhaled.
 H331 Toxic if inhaled.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H351 Suspected of causing cancer.
 H361f Suspected of damaging fertility.
 H370 Causes damage to organs.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

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|-------------|---|
| ED: | Substance identified as having endocrine disrupting properties |
| EU OEL: | Substance with a Union workplace exposure limit |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148 |
| EU EXPLD 2 | Substance listed in Annex II, Reg (EC) No. 2019/1148 |
| SVHC: | Substance of very high concern (REACH Candidate List) |
| PBT: | Substance fulfilling persistent, bioaccumulative and toxic criteria |
| PBT/vPvB: | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB: | Substance fulfilling very persistent and very bioaccumulative criteria |

Further information:

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This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.