

Trade name: WIDOSIL-WSG

Current version : 1.0.0, issued: 03.08.2021

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

1.1 Product identifier

Trade name

WIDOSIL-WSG

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

Relevant identified uses of the substance or mixture

Coatings

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Widopan Produkte GmbH

Ostereichen 3

D-21714 Hammah

Telephone no. +49 (0) 4144 69821-0

Fax no. +49 (0) 4144 69821-20

Information provided by / telephone

+49 (0) 4144 69821-0

Advice on Safety Data Sheet

sdb_info@umco.de

Details of the importer

Address

Widopan Limited

System House

Horndon Industrial Park

24 Station Rd

West Horndon

Brentwood

CM13 3XL

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

Classification and labelling with respect to skin sensitization and/or respiratory sensitization are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

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Signal word

-

Hazard statement(s)

-

Hazard statements (EU)

EUH208 Contains trimethoxy(vinyl)silane, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Precautionary statement(s)

-

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

| No | Substance name | Additional information | |
|----|---|---|---------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration |
| | | | % |
| 1 | trimethoxy(vinyl)silane | pls. refer to footnote (2) | |
| | 2768-02-7 220-449-8 - 01-2119513215-52 | Skin Sens. 1B; H317 Acute Tox. 4; H332 Flam. Liq. 3; H226 | < 2.50 wt% |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | | |
| | 13463-67-7 236-675-5 - 01-2119489379-17 | Carc. 2; H351i | < 1.00 wt% |
| 3 | N-(3-(trimethoxysilyl)propyl)ethylenediamine | | |
| | 1760-24-3 217-164-6 - 01-2119970215-39 | Eye Dam. 1; H318 Skin Sens. 1; H317 STOT SE 3; H335 | < 1.00 wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

| No | Route, target organ, concrete effect |
|----|--------------------------------------|
| 2 | H351i inhalational; -, - |

SECTION 4: First aid measures

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4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Hydrolysis liberates small amounts of toxic methanol.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam; Carbon dioxide; Water spray jet; Extinguishing powder

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Silicon dioxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale vapours.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

| No | Substance name | CAS no. | EC no. |
|---|---|------------|-------------------|
| 1 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | 13463-67-7 | 236-675-5 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| | Titanium dioxide | | |
| | total inhalable dust | | |
| | WEL long-term (8-hr TWA reference period) | 10 | mg/m ³ |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| | Titanium dioxide | | |
| | respirable dust | | |
| | WEL long-term (8-hr TWA reference period) | 4 | mg/m ³ |

DNEL, DMEL and PNEC values**DNEL values (worker)**

| No | Substance name | | | CAS / EC no | |
|----|---|---------------------|----------|-------------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | trimethoxy(vinyl)silane | | | 2768-02-7 220-449-8 | |
| | dermal | Long term (chronic) | systemic | 3.9 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 27.6 | mg/m ³ |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | | | 13463-67-7 236-675-5 | |
| | inhalative | Long term (chronic) | local | 10 | mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no | |
|----|---|---------------------|----------|-------------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | trimethoxy(vinyl)silane | | | 2768-02-7 220-449-8 | |
| | oral | Long term (chronic) | systemic | 0.3 | mg/kg/day |
| | dermal | Long term (chronic) | systemic | 7.8 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 18.9 | mg/m ³ |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | | | 13463-67-7 236-675-5 | |
| | oral | Long term (chronic) | systemic | 700 | mg/kg/day |

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PNEC values

| No | Substance name | CAS / EC no |
|----|---|-------------------------|
| | ecological compartment Type | Value |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 220-449-8 |
| | water fresh water | 0.4 mg/L |
| | water Aqua intermittent | 1.21 mg/L |
| | water marine water | 0.04 mg/L |
| | water fresh water sediment | 1.5 mg/kg dry weight |
| | water marine water sediment | 0.15 mg/kg dry weight |
| | soil - | 0.06 mg/kg dry weight |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$] | 13463-67-7 236-675-5 |
| | water fresh water | 0.127 mg/L |
| | water marine water | 1 mg/L |
| | water Aqua intermittent | 0.61 mg/L |
| | water fresh water sediment | 1000 mg/kg |
| | with reference to: dry weight | |
| | water marine water sediment | 100 mg/kg |
| | with reference to: dry weight | |
| | soil - | 100 mg/kg |
| | with reference to: dry weight | |
| | sewage treatment plant - | 100 mg/L |
| | secondary poisoning mammalian | 1667 mg/kg |

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, local exhaust at the work station if necessary.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Combination filter (EN 14387), filter type A - brown; Dust mask according to DIN EN 140

Respirator A/P2

Eye / face protection

Safety glasses (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material Nitrile rubber, butyl rubber

Appropriate Material neoprene

Material thickness > 0.7 mm

Breakthrough time > 480 mm

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

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9.1 Information on basic physical and chemical properties

| | | | |
|---|-------------------------|-----------|-----------|
| State of aggregation | | | |
| liquid | | | |
| Form/Colour | | | |
| paste | | | |
| grey | | | |
| Odour | | | |
| characteristic | | | |
| pH value | | | |
| No data available | | | |
| Boiling point / boiling range | | | |
| No data available | | | |
| Melting point/freezing point | | | |
| No data available | | | |
| Decomposition temperature | | | |
| No data available | | | |
| Flash point | | | |
| Value | > 61 °C | | |
| Method | closed cup | | |
| Source | supplier | | |
| Ignition temperature | | | |
| No data available | | | |
| Flammability | | | |
| No data available | | | |
| Lower explosion limit | | | |
| No data available | | | |
| Upper explosion limit | | | |
| No data available | | | |
| Vapour pressure | | | |
| No data available | | | |
| Relative vapour density | | | |
| No data available | | | |
| Relative density | | | |
| Value | 1.5 | | |
| Source | supplier | | |
| Density | | | |
| No data available | | | |
| Solubility in water | | | |
| Comments | Reacts with water | | |
| Solubility | | | |
| No data available | | | |
| Partition coefficient n-octanol/water (log value) | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| log Pow | | 1.1 | |
| Reference temperature | | 20 | °C |
| with reference to | | pH 7 | |

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| | |
|--------|------|
| Method | QSAR |
| Source | ECHA |

| |
|---------------------------------|
| Viscosity |
| No data available |
| Particle characteristics |
| No data available |

9.2 Other information

| |
|--------------------------|
| Other information |
| No data available. |

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

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid

Protect against humidity.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

Methanol by hydrolysis.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

| Acute oral toxicity | | | |
|---------------------------|--|-------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LD50 | | 6899 - 7120 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 401 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
| LD50 | | > 2000 | mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 401 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| Acute dermal toxicity | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LD50 | | 3158 - 3760 | mg/kg bodyweight |
| Species | rabbit | | |
| Method | OECD 402 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

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| Acute inhalational toxicity (result of the ATE calculation for the mixture) | |
|---|---|
| No | Product Name |
| 1 | WIDOSIL-WSG |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists). |

| Acute inhalational toxicity | | | |
|-----------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LC50 | | 16.8 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Vapour | | |
| Species | rat | | |
| Method | OECD 403 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are met. | | |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
| LC50 | > | 6.82 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Dust | | |
| Species | rat | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Skin corrosion/irritation | | | |
|---------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
| Species | rabbit | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Serious eye damage/irritation | | | |
|-------------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |

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| | |
|---------------------------|---|
| Evaluation | non-irritant |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

Respiratory or skin sensitisation**No Product Name****1 WIDOSIL-WSG**

| | |
|-------------------|-----------------|
| Route of exposure | Skin |
| Species | guinea pig |
| Method | OECD 406 |
| Source | supplier |
| Evaluation | non-sensitizing |

Germ cell mutagenicity

| No | Substance name | CAS no. | EC no. |
|----|-------------------------|-----------|-----------|
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |

| | |
|---------------------------|---|
| Type of examination | in vitro gene mutation study in bacteria |
| Species | S. typhimurium TA 1535, TA 1537, TA 98, TA 100 and E. coli WP2 |
| Method | OECD 471 |
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |
| Type of examination | in vitro gene mutation study in mammalian cells |
| Species | Chinese hamster Ovary (CHO) |
| Method | OECD 476 |
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |
| Type of examination | In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus |
| Species | mouse |
| Method | EPA |
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

| | | | |
|----------|---|-------------------|------------------|
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
|----------|---|-------------------|------------------|

| | |
|---------------------------|---|
| Type of examination | In vitro mammalian cytogenicity |
| Method | OECD 487 |
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

Reproduction toxicity

| No | Substance name | CAS no. | EC no. |
|----|-------------------------|-----------|-----------|
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |

| | |
|---------------------------|---|
| Route of exposure | oral |
| NOAEL | 1000 mg/kg bw/d |
| Type of examination | Toxicity study |
| Species | rat |
| Method | OECD 422 |
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |
| Route of exposure | oral |
| NOAEL | ≥ 75 mg/kg bw/d |
| Type of examination | Prenatal Developmental Toxicity Study |
| Species | rabbit |
| Method | OECD 414 |
| Source | ECHA |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

| | | | |
|----------|---|-------------------|------------------|
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
|----------|---|-------------------|------------------|

| | |
|-------------------|------|
| Route of exposure | oral |
|-------------------|------|

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| | | | |
|---------------------------|---|------|------------|
| NOAEL | >= | 1000 | mg/kg bw/d |
| Type of examination | Reproductive studies - one generation | | |
| Species | rat | | |
| Method | OECD 443 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| Route of exposure | oral | | |
| NOAEL | >= | 1000 | mg/kg bw/d |
| Type of examination | Prenatal Developmental Toxicity Study | | |
| Species | rat | | |
| Method | OECD 414 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

Carcinogenicity

| No | Substance name | CAS no. | EC no. |
|---------------------------|--|------------|------------|
| 1 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
| Route of exposure | | oral | |
| NOEL | | 7500 | mg/kg bw/d |
| Species | mouse | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

STOT - single exposure

No data available

STOT - repeated exposure

| No | Substance name | CAS no. | EC no. |
|---------------------------|--|------------|------------|
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Route of exposure | | oral | |
| NOAEL | | 62.5 | mg/kg bw/d |
| Species | rat | | |
| Method | OECD 422 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| Route of exposure | inhalational | | |
| NOAEC | | 100 | ppm |
| Species | rat | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
| Route of exposure | | oral | |
| NOAEL | | 962 | mg/kg bw/d |
| Species | rat | | |
| Method | OECD 408 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

Aspiration hazard

No data available

11.2 Information on other hazards**Endocrine disrupting properties**

No data available.

Other information

No data available.

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SECTION 12: Ecological information

12.1 Toxicity

| Toxicity to fish (acute) | | | |
|---------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| LC50 | | 191 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Oncorhynchus mykiss | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Toxicity to fish (chronic) | | | |
|----------------------------|--|--|--|
| No data available | | | |

| Toxicity to Daphnia (acute) | | | |
|-----------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| EC50 | | 168.7 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | EU C.2 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Toxicity to Daphnia (chronic) | | | |
|-------------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| NOEC | | 28.1 | mg/l |
| Duration of exposure | | 21 | day(s) |
| Species | Daphnia magna | | |
| Method | OECD 211 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Toxicity to algae (acute) | | | |
|---------------------------|--|------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| EC50 | | > 89 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Pseudokirchneriella subcapitata | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 | 236-675-5 |
| EC50 | | > 100 | mg/l |
| Duration of exposure | | 72 | h |
| Species | Pseudokirchneriella subcapitata | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

| Toxicity to algae (chronic) | | | |
|-----------------------------|--|--|--|
| No data available | | | |

| Bacteria toxicity | | | |
|-------------------|-------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| EC50 | | > 100 | mg/l |

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| | | |
|---------------------------|---|-----------------------------|
| Duration of exposure | 3 | h |
| Species | activated sludge | |
| Method | OECD 209 | |
| Source | ECHA | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | |
| 2 | titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] | 13463-67-7 236-675-5 |
| EC50 | > | 1000 |
| Duration of exposure | 3 | h |
| Species | activated sludge | |
| Method | OECD 209 | |
| Source | ECHA | |

12.2 Persistence and degradability

| Biodegradability | | | |
|------------------|---------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| Type | aerobic biodegradation | | |
| Value | | 51 | % |
| Duration | | 28 | day(s) |
| Method | OECD 301 F | | |
| Source | ECHA | | |
| Evaluation | not readily biodegradable | | |

12.3 Bioaccumulative potential

| Partition coefficient n-octanol/water (log value) | | | |
|---|-------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | trimethoxy(vinyl)silane | 2768-02-7 | 220-449-8 |
| log Pow | | 1.1 | |
| Reference temperature | | 20 | °C |
| with reference to | pH 7 | | |
| Method | QSAR | | |
| Source | ECHA | | |

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

| Results of PBT and vPvB assessment | |
|------------------------------------|---|
| PBT assessment | The product is not considered to be a PBT. |
| vPvB assessment | The product is not considered to be a vPvB. |

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility. Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified

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by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name | CAS no. | EC no. | No |
|----|--------------------|----------|-----------|----|
| 1 | diocetyl tin-oxide | 870-08-6 | 212-791-1 | 20 |

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

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Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|-------|--|
| H226 | Flammable liquid and vapour. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H351i | Suspected of causing cancer by inhalation. |

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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