



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

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TEROSON SE 108 XLT WHITE

SDS No. : 599381
V001.0

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

1.1. Product identifier

TEROSON SE 108 XLT WHITE

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 AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 211 797 0

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website www.mysds.henkel.com or www.henkel-adhesives.com.

1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

Further information is available at Poison Control Centers.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Chronic hazards to the aquatic environment
H412 Harmful to aquatic life with long lasting effects.

Category 3

2.2. Label elements

Label elements (CLP):

Hazard statement: H412 Harmful to aquatic life with long lasting effects.

Supplemental information EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Contains: N,N-Dimethyl-3-(trimethoxysilyl)propylamine May produce an allergic reaction.

Precautionary statement: P102 Keep out of reach of children.
P101 If medical advice is needed, have product container or label at hand.
P262 Do not get in eyes, on skin, or on clothing.
P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

Evolves methanol during cure.

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):

| | |
|--|----------|
| 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 dioxide 13463-67-7 236-675-5 01-2119489379-17 | 1- < 5 % | Carc. 2, Inhalation, H351 | | |
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 265-148-2 | 1- < 5 % | Asp. Tox. 1, H304 | | |
| N,N-Dimethyl-3- (trimethoxysilyl)propylamine 2530-86-1 219-786-3 01-2120753783-46 | 0,1- < 1 % | Eye Dam. 1, H318 Skin Sens. 1B, H317 | oral:ATE = 2.500 mg/kg | |
| octamethylcyclotetrasiloxane 556-67-2 209-136-7 01-2119529238-36 | 0,025- < 0,25 % (0,25 %o- < 2,5 %o) | Aquatic Chronic 1, H410 Repr. 2, H361f Flam. Liq. 3, H226 | M chronic = 10 | SVHC PBT/vPvB |

If no ATE values are displayed, please refer to LD/LC50 values in Section 11.
For full text of the H - statements and other abbreviations see section 16 "Other information".

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

No data available.

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.

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

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure that workrooms are adequately ventilated.
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

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
Germany

| Ingredient [Regulated substance] | ppm | mg/m ³ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|----------------------------------|-----|-------------------|-------------------------------------|--|-----------------|
| Limestone 1317-65-3 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone 1317-65-3 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Limestone 1317-65-3 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Silicon dioxide 112945-52-5 | | 4 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silicon dioxide 112945-52-5 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silicon dioxide 112945-52-5 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Silicon dioxide 112945-52-5 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |
| Titanium dioxide 13463-67-7 | | 1,25 | Exposure limit(s): | If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Titanium dioxide 13463-67-7 | | 10 | Exposure limit(s): | 2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7). | TRGS 900 |
| Titanium dioxide 13463-67-7 | | | Short Term Exposure Classification: | Category II: substances with a resorptive effect. | TRGS 900 |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---------------------------------------|------------------------------|-----------------|--------------|-----|------------|--------|---------|
| | | | mg/l | ppm | mg/kg | others | |
| 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 | | | | 0,84 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---------------------------------------|--------------------|-------------------|---------------------------------------|---------------|-------------|---------|
| 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 | |
| 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 | |

Biological Exposure Indices:

None

8.2. Exposure controls:

Respiratory protection:

Suitable breathing mask when there is inadequate ventilation.

Filter : AX (EN 14387)

This recommendation should be matched to local conditions.

Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.

material thickness > 0.1 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**

| | |
|--|---|
| Delivery form | paste |
| Colour | white |
| Odor | neutral |
| Physical state | solid |
| Melting point | < -50 °C (< -58 °F) |
| Solidification temperature | Not applicable, Product is a solid. |
| Initial boiling point | 320 - 360 °C (608 - 680 °F) |
| 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. |
| Viscosity, dynamic | Not applicable |
| () | |
| 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 | 1,42 g/cm ³ no method / method unknown |
| (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

None if used for intended purpose.

10.5. Incompatible materials

None if used properly.

10.6. Hazardous decomposition products

Evolves methanol during cure.

SECTION 11: Toxicological information

General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

11.1 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 dioxide 13463-67-7 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure) |
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 | LD50 | > 5.000 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylam ine 2530-86-1 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (Acute Oral toxicity) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylam ine 2530-86-1 | Acute toxicity estimate (ATE) | 2.500 mg/kg | | Expert judgement |
| octamethylcyclotetrasilox ane 556-67-2 | LD50 | > 4.800 mg/kg | rat | equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) |

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 dioxide 13463-67-7 | LD50 | > 10.000 mg/kg | rabbit | not specified |
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 | LD50 | > 2.000 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| octamethylcyclotetrasilox ane 556-67-2 | LD50 | > 2.375 mg/kg | rat | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |

Acute inhalative 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 | Test atmosphere | Exposure time | Species | Method |
|--|---------------|--------------|-----------------|------------------|---------|--|
| Titanium dioxide 13463-67-7 | LC50 | > 6,82 mg/l | dust | 4 h | rat | not specified |
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 | LC50 | > 5,266 mg/l | dust/mist | 4 h | rat | not specified |
| octamethylcyclotetrasilox ane 556-67-2 | LC50 | 36 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

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 |
|--|----------------|------------------|---|---|
| Titanium dioxide 13463-67-7 | not irritating | 4 h | rabbit | OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylam ine 2530-86-1 | not corrosive | 4 h | Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE) | OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylam ine 2530-86-1 | not irritating | 15 min | Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE) | OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method) |
| octamethylcyclotetrasilox ane 556-67-2 | not irritating | | rabbit | equivalent or similar to 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 |
|--|----------------|------------------|--------------------------------|---|
| Titanium dioxide 13463-67-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylam ine 2530-86-1 | not irritating | | Chicken, eye, in vitro test | OECD Guideline 438 (Isolated Chicken Eye Test Method) |
| octamethylcyclotetrasilox ane 556-67-2 | not irritating | | rabbit | equivalent or similar to 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 |
|--|-----------------|---------------------------------------|------------|--|
| 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) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylam ine 2530-86-1 | sensitising | Mouse local lymphnode assay (LLNA) | mouse | OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) |
| octamethylcyclotetrasilox ane 556-67-2 | not sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

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 |
|--|----------|--|--|---------|---|
| 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) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylam ine 2530-86-1 | negative | bacterial reverse mutation assay (e.g Ames test) | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | bacterial gene mutation assay | with and without | | OECD Guideline 471 (Bacterial Reverse Mutation Assay) |
| octamethylcyclotetrasilox ane 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) |
| octamethylcyclotetrasilox ane 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) |
| Titanium dioxide 13463-67-7 | negative | oral: gavage | | rat | OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | inhalation | | rat | equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) |
| octamethylcyclotetrasilox ane 556-67-2 | negative | oral: gavage | | rat | equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal 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 |
|---------------------------------|------------------|-------------------------|---|---------|-------------|---------------|
| 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 |
|--|---|-----------------------------|-------------------------|---------|--|
| Titanium dioxide 13463-67-7 | NOAEL P \geq 1.000 mg/kg NOAEL F1 \geq 1.000 mg/kg | one- generation study | oral: feed | rat | OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study) |
| octamethylcyclotetrasilox ane 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) |

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 |
|--|-----------------------|-------------------------|--|---------|--|
| 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) |
| octamethylcyclotetrasilox ane 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) |
| octamethylcyclotetrasilox ane 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) |

Aspiration hazard:

The mixture is classified based on Viscosity data.

| Hazardous substances CAS-No. | Viscosity (kinematic) Value | Temperature | Method | Remarks |
|--|--------------------------------|-------------|---------------|---------|
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 | 4 mm ² /s | 40 °C | not specified | |

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.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|------------|-----------------------------|---------------|---|--|
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | 48 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 | LC50 | > 10.000 mg/l | 96 h | Pimephales promelas | OECD Guideline 203 (Fish, Acute 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) |

Toxicity (aquatic invertebrates):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|------------|-----------------------------|---------------|---------------|--|
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine 2530-86-1 | EC50 | > 100,1 mg/l | 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) |

Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---------------------------------------|------------|-----------------------------|---------------|---------------|--|
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 21 d | Daphnia magna | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| octamethylcyclotetrasiloxane 556-67-2 | NOEC | 7.9 µg/l | 21 d | Daphnia magna | EPA OTS 797.1330 (Daphnid Chronic Toxicity Test) |

Toxicity (Algae):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|---|--|
| 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) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylamine 2530-86-1 | EC50 | > 311 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylamine 2530-86-1 | NOEC | 32,4 mg/l | 72 h | 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) |

Toxicity (microorganisms):

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

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|--|---------------|--------------------------------|---------------|-------------------------|---|
| Titanium dioxide 13463-67-7 | EC0 | Toxicity > Water solubility | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm- Test) |
| octamethylcyclotetrasiloxane 556-67-2 | EC50 | Toxicity > Water solubility | 3 h | activated sludge | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |

12.2. Persistence and degradability

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|----------------------------|-----------|---------------|------------------|---|
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 | not readily biodegradable. | aerobic | 30 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |
| N,N-Dimethyl-3- (trimethoxysilyl)propylamine 2530-86-1 | not readily biodegradable. | aerobic | 24 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| octamethylcyclotetrasiloxane 556-67-2 | not readily biodegradable. | aerobic | 3,7 % | 29 d | OECD Guideline 310 (Ready Biodegradability CO ₂ in Sealed Vessels (Headspace Test) |

12.3. Bioaccumulative potential

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Bioconcentratio n factor (BCF) | Exposure time | Temperature | Species | Method |
|--|-----------------------------------|---------------|-------------|------------------------|---|
| octamethylcyclotetrasiloxane 556-67-2 | 12.400 | 28 d | | Pimephales promelas | EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout) |

12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|--|--------|-------------|---|
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine 2530-86-1 | 0,51 | 25 °C | QSAR (Quantitative Structure Activity Relationship) |
| octamethylcyclotetrasiloxane 556-67-2 | 6,98 | 21,7 °C | other guideline: |

12.5. Results of PBT and vPvB assessment

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | PBT / vPvB |
|--|---|
| Titanium dioxide 13463-67-7 | According to Annex XIII to Regulation (EC) No 1907/2006, a PBT and vPvB assessment shall not be conducted for inorganic substances. |
| Distillates (Petroleum) hydrotreated middle; Gasoil - unspecified (not cmr) 64742-46-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| N,N-Dimethyl-3-(trimethoxysilyl)propylamine 2530-86-1 | Not 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. |

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**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.2. UN proper shipping name**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.3. Transport hazard class(es)**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.4. Packing group**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.5. Environmental hazards**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.6. Special precautions for user**
Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.
- 14.7. Maritime transport in bulk according to IMO instruments**
not applicable

SECTION 15: Regulatory information

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.

National regulations/information (Germany):

WGK: WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV))
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510: 11

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:

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H361f Suspected of damaging fertility.
H410 Very toxic to aquatic life with long lasting effects.

| | |
|-------------|---|
| 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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