



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

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Pattex PL 300 white

SDS No.: 414651

V002.0

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

1.1. Product identifier

Pattex PL 300 white

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

Intended use:

Assembly adhesive, reaction

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

Fax-no.: +44 (1442) 278071

ua-productsafety.uk@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):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Supplemental information EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.
Contains: Trimethoxyvinylsilane 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.

2.3. Other hazards

Evolves methanol during cure.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

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. | content | Classification |
|--|-------------------------------|--------------|--|
| Titanium dioxide 13463-67-7 | 236-675-5 | 1- < 5 % | Carc. 2; Inhalation H351 |
| 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 |
| Diocetyl tin dilaurate 3648-18-8 | 222-883-3 01-2119979527-19 | 0,1- < 0,3 % | Repr. 1B H360D STOT RE 1 H372 ===== |
| EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) | | | |

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. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

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 sealed original container.

Store in a cool, dry place.

Storage at 5 to 25°C is recommended.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Assembly adhesive, reaction

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 |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [Dust, inhalable dust] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Calcium carbonate 471-34-1 [Dust, respirable dust] | | 4 | 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 |
| Di-"isononyl" phthalate 28553-12-0 [Diisononyl phthalate] | | 5 | Time Weighted Average (TWA): | | EH40 WEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE, INHALABLE DUST] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE, RESPIRABLE DUST] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Limestone 1317-65-3 [LIMESTONE, RESPIRABLE MARBLE, RESPIRABLE] | | 4 | Time Weighted Average (TWA): | | EH40 WEL |
| Limestone 1317-65-3 [LIMESTONE, TOTAL INHALABLE MARBLE, TOTAL INHALABLE] | | 10 | Time Weighted Average (TWA): | | EH40 WEL |
| 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 |
| Diocetyl tin dilaurate 3648-18-8 | | 0,1 | Time Weighted Average (TWA): | | EH40 WEL |

| | | | | | |
|---|--|-----|-----------------------------------|-----------------------------------|----------|
| [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (ASSN)] | | | | | |
| Diocetyl tin dilaurate 3648-18-8 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (ASSN)] | | | Skin designation: | Can be absorbed through the skin. | EH40 WEL |
| Diocetyl tin dilaurate 3648-18-8 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (ASSN)] | | 0,2 | 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 |
|---|-----|-------------------|-----------------------------------|--|-----------------|
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium carbonate 471-34-1 [CALCIUM CARBONATE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium carbonate 471-34-1 [DUST NON-SPECIFIC] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Calcium carbonate 471-34-1 [DUST NON-SPECIFIC] | | 10 | 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 |
| Di-"isononyl" phthalate 28553-12-0 [Diisononyl phthalate] | | 5 | Time Weighted Average (TWA): | | IR_OEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE] | | 4 | Time Weighted Average (TWA): | | IR_OEL |
| Limestone 1317-65-3 [CALCIUM CARBONATE] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| 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 |
| Calcium distearate 1592-23-0 [STEARATES (EXCEPT LEAD STEARATE)] | | 10 | Time Weighted Average (TWA): | | IR_OEL |
| Diocetyl tin dilaurate 3648-18-8 [TIN, ORGANIC COMPOUNDS] | | 0,2 | Short Term Exposure Limit (STEL): | 15 minutes Indicative OELV | IR_OEL |
| Diocetyl tin dilaurate 3648-18-8 [TIN, ORGANIC COMPOUNDS] | | 0,1 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |

Predicted No-Effect Concentration (PNEC):

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|-------------------------------------|------------------------------------|--------------------|-----------|-----|----------------|------------|-------------------------------------|
| | | | mg/l | ppm | mg/kg | others | |
| Titanium dioxide 13463-67-7 | aqua (freshwater) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | aqua (marine water) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | sewage treatment plant (STP) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | sediment (freshwater) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | sediment (marine water) | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | Soil | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | Air | | | | | | no hazard identified |
| Titanium dioxide 13463-67-7 | Predator | | | | | | no potential for bioaccumulation |
| Trimethoxyvinylsilane 2768-02-7 | aqua (freshwater) | | 0,4 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | aqua (marine water) | | 0,04 mg/l | | | | |
| Trimethoxyvinylsilane 2768-02-7 | Freshwater - intermittent | | 1,21 mg/l | | | | |
| 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 | | |
| Diocetyl tin dilaurate 3648-18-8 | aqua (freshwater) | | | | | 0,002 µg/l | |
| Diocetyl tin dilaurate 3648-18-8 | aqua (marine water) | | | | | 0 µg/l | |
| Diocetyl tin dilaurate 3648-18-8 | Freshwater - intermittent | | | | | 0,018 µg/l | |
| Diocetyl tin dilaurate 3648-18-8 | sewage treatment plant (STP) | | 100 mg/l | | | | |
| Diocetyl tin dilaurate 3648-18-8 | sediment (freshwater) | | | | 0,028 mg/kg | | |
| Diocetyl tin dilaurate 3648-18-8 | sediment (marine water) | | | | 0,003 mg/kg | | |
| Diocetyl tin dilaurate 3648-18-8 | Soil | | | | 0,006 mg/kg | | |
| Diocetyl tin dilaurate 3648-18-8 | oral | | | | 0,02 mg/kg | | |

Derived No-Effect Level (DNEL):

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|-------------------------------------|--------------------|-------------------|---------------------------------------|---------------|--------------------------|---------|
| Trimethoxyvinylsilane 2768-02-7 | Workers | dermal | Long term exposure - systemic effects | | 3,9 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | Workers | inhalation | Long term exposure - systemic effects | | 27,6 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | dermal | Long term exposure - systemic effects | | 7,8 mg/kg | |
| Trimethoxyvinylsilane 2768-02-7 | General population | inhalation | Long term exposure - systemic effects | | 6,7 mg/m ³ | |
| Trimethoxyvinylsilane 2768-02-7 | General population | oral | Long term exposure - systemic effects | | 0,3 mg/kg | |
| Diocetyl tin dilaurate 3648-18-8 | Workers | inhalation | Long term exposure - systemic effects | | 0,0035 mg/m ³ | |
| Diocetyl tin dilaurate 3648-18-8 | Workers | dermal | Long term exposure - systemic effects | | 0,05 mg/kg | |
| Diocetyl tin dilaurate 3648-18-8 | General population | inhalation | Long term exposure - systemic effects | | 0,0009 mg/m ³ | |
| Diocetyl tin dilaurate 3648-18-8 | General population | dermal | Long term exposure - systemic effects | | 0,025 mg/kg | |
| Diocetyl tin dilaurate 3648-18-8 | General population | oral | Long term exposure - systemic effects | | 0,0005 mg/kg | |

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.

Eye protection:

Goggles which can be tightly sealed.

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

Appearance

paste

solid

white

Odor

alcohol-like

Odour threshold

No data available / Not applicable

pH

Not applicable

Melting point

No data available / Not applicable

Solidification temperature

No data available / Not applicable

Initial boiling point

No data available / Not applicable

Flash point

No data available / Not applicable

| | |
|--|-------------------------------------|
| Evaporation rate | No data available / Not applicable |
| Flammability | No data available / Not applicable |
| Explosive limits | No data available / Not applicable |
| Vapour pressure | No data available / Not applicable |
| Relative vapour density: | Not applicable, Product is a solid. |
| Density (20 °C (68 °F)) | 1,41 g/cm ³ |
| Bulk density | No data available / Not applicable |
| Solubility | No data available / Not applicable |
| Solubility (qualitative) | No data available / Not applicable |
| Partition coefficient: n-octanol/water | No data available / Not applicable |
| Auto-ignition temperature | No data available / Not applicable |
| Decomposition temperature | No data available / Not applicable |
| Viscosity | No data available / Not applicable |
| Viscosity (kinematic) | No data available / Not applicable |
| Explosive properties | No data available / Not applicable |
| Oxidising properties | No data available / Not applicable |

9.2. Other information

No data available / Not applicable

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

Reaction with acids: production of heat and carbon dioxide.

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

See section reactivity.

10.6. Hazardous decomposition products

Evolves methanol during cure.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****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) |
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 7.120 mg/kg | rat | OECD Guideline 401 (Acute Oral Toxicity) |
| Dioctyltin dilaurate 3648-18-8 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 423 (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 | hamster | not specified |
| Trimethoxyvinylsilane 2768-02-7 | LD50 | 3.200 mg/kg | rabbit | OECD Guideline 402 (Acute Dermal Toxicity) |
| Diocetyl tin dilaurate 3648-18-8 | LD50 | > 2.000 mg/kg | rat | 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 |
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 16,8 mg/l | vapour | 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 | equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion) |
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | other guideline: |

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) |
| Trimethoxyvinylsilane 2768-02-7 | not irritating | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Diocetyl tin dilaurate 3648-18-8 | 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 |
|------------------------------------|-----------------|---------------------------------------|------------|--|
| 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) |
| Trimethoxyvinylsilane 2768-02-7 | sensitising | Buehler 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) |
| 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) |

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 | inhalation | 24 m 6 h/d; 5 d/w | rat | male/female | OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies) |

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 > 1.000 mg/kg NOAEL F1 > 1.000 mg/kg | | oral: gavage | rat | OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test) |
| 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) |
| Diocetyl tin dilaurate 3648-18-8 | NOAEL P 0,3 - 0,4 mg/kg | screening | oral: feed | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

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 | 90 d daily | rat | OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
| 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 |
| Diocetyl tin dilaurate 3648-18-8 | NOAEL 0,3 - 0,4 mg/kg | oral: feed | 28 d 28 d/daily (ad libitum) | rat | OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |

Aspiration hazard:

No data available.

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 |
|----------------------------------|------------|-----------------------------|---------------|---------------------|--|
| Titanium dioxide 13463-67-7 | LC50 | Toxicity > Water solubility | 48 h | Leuciscus idus | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Trimethoxyvinylsilane 2768-02-7 | LC50 | 191 mg/l | 96 h | Oncorhynchus mykiss | OECD Guideline 203 (Fish, Acute Toxicity Test) |
| Diocetyl tin dilaurate 3648-18-8 | LC50 | Toxicity > Water solubility | 96 h | | OECD Guideline 203 (Fish, Acute 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 |
|----------------------------------|------------|-----------------------------|---------------|---------------|--|
| Titanium dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 48 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) |
| Diocetyl tin dilaurate 3648-18-8 | EC50 | Toxicity > Water solubility | 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 |
|---------------------------------|------------|-----------------------------|---------------|---------------|--|
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 21 d | Daphnia magna | OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test) |
| Trimethoxyvinylsilane 2768-02-7 | NOEC | 28,1 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 dioxide 13463-67-7 | EC50 | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Algal Growth Inhibition Test) |
| Titanium dioxide 13463-67-7 | NOEC | Toxicity > Water solubility | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Algal 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) |
| Diocetyl tin dilaurate 3648-18-8 | NOEC | Toxicity > Water solubility | 72 h | Desmodesmus subspicatus (reported as Scenedesmus subspicatus) | OECD Guideline 201 (Algal 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 |
|---------------------------------|------------|-----------------------------|---------------|---|--|
| Titanium dioxide 13463-67-7 | EC0 | Toxicity > Water solubility | 24 h | Pseudomonas fluorescens | DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-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) |

12.2. Persistence and degradability

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|----------------------------------|----------------------------|-----------|---------------|---------------|---|
| Trimethoxyvinylsilane 2768-02-7 | not readily biodegradable. | aerobic | 51 % | 28 d | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |
| Diocetyl tin dilaurate 3648-18-8 | not readily biodegradable. | aerobic | 1,9 % | 28 day | OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test) |

12.3. Bioaccumulative potential

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|----------------------------------|-------------------------------|---------------|-------------|---------------|---|
| Diocetyl tin dilaurate 3648-18-8 | < 100 | 30 day | | Salmo irideus | OECD Guideline 305 (Bioconcentration: Flow-through Fish Test) |

12.4. Mobility in soil

| Hazardous substances CAS-No. | LogPow | Temperature | Method |
|----------------------------------|--------|-------------|---------------|
| Diocetyl tin dilaurate 3648-18-8 | 14,56 | | not specified |

12.5. Results of PBT and vPvB assessment

| Hazardous substances CAS-No. | PBT/ vPvB |
|----------------------------------|---|
| 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. |
| Trimethoxyvinylsilane 2768-02-7 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Diocetyl tin dilaurate 3648-18-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

12.6. 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

080410

SECTION 14: Transport information**14.1. UN 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. Transport in bulk according to Annex II of Marpol and the IBC Code

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):

Hexachlorobenzene

CAS 118-74-1

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:

H226 Flammable liquid and vapor.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H360D May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

Further information:

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