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Safety Data Sheet

LAseal

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

This SDS is for generic information purposes and does not reflect required country specific information for OEL
Revisionsdatum: 2023-10-17 Vers: 1

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

1.1 Product identifier

- Product name: LAseal Leif Arvidsson AB
- Pure substance/mixture: Mixture
- Form: substance/mixture contains nanoforms

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

- Recommended use: Adhesives and/or sealants

Uses advised against: May not be used in articles intended for direct or prolonged skin contact.
May not be used in the manufacture of toys and childcare articles Fabric, textiles and clothing:
bedding and garments Gloves Footwear (shoes, boots) Paper goods: napkins, towels,
disposable plates, nappies, hygiene products for women, incontinence products, writing paper

Why uses are advised against Restricted substance according to REACH Annex XVII

1.3 Details of the supplier of the safety data sheet

LEIF ARVIDSSON AB, Mälaregatan 5, 565 33 Mullsjö, Sverige
Tel: +46(0)392-36010
E-mail: info@leifarvidsson.se
Internet: www.leifarvidsson.se

1.4 Emergency telephone number

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SECTION 2: Hazards identification

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EU Specific Hazard Statements

EUH208 - Contains Trimethoxyvinylsilane. May produce an allergic reaction
EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust
EUH210 - Safety data sheet available on request

2.3. Other hazards

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Harmful to aquatic life.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | EC No. | CAS No. | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|------------------------------------------------------------|-----------|------------|--------------------------------------------------------------------------------------------|------------------------------------|----------|----------------------|---------------------------|
| Titanium dioxide 1 - <5 % | 236-675-5 | 13463-67-7 | [C] | - | - | - | 01-2119489379-17-XXXX |
| Trimethoxyvinylsilane 1 - <2.5 % | 220-449-8 | 2768-02-7 | Skin Sens. 1B (H317) Acute Tox. 4 (H332) Flam. Liq. 3 (H226) | - | - | - | 01-2119513215-52-XXXX |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 0.1- <1 % | 258-207-9 | 52829-07-9 | Eye Dam. 1 (H318) Repr. 2 (H361f) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411) | - | - | - | 01-2119537297-32-XXXX |
| Diocetyl tin oxide 0.1- <1 % | 212-791-1 | 870-08-6 | STOT SE 2 (H371) | - | - | - | 01-2119971268-27-xxxx |

Air contaminants formed when using the substance or mixture as intended

| Chemical name | EC No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) | REACH registration number |
|---------------------------|-----------|----------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------|----------------------|---------------------------|
| Methyl alcohol 67-56-1 | 200-659-6 | 1 - <2.5 | Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225) | STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10% | - | - | 01-211939240 9-28-XXXX |

Full text of H- and EUH-phrases: see section 16

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex 1, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

| Chemical name | EC No | CAS No | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|-----------------------|-----------|------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Titanium dioxide | 236-675-5 | 13463-67-7 | - | - | - | - | - |
| Trimethoxyvinylsilane | 220-449-8 | 2768-02-7 | - | - | - | 11 | - |

| Chemical name | EC No | CAS No | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|-----------------------------------------------|-----------|------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 258-207-9 | 52829-07-9 | - | - | - | - | - |
| Diocetyl tin oxide | 212-791-1 | 870-08-6 | - | - | - | - | - |

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Notes

See section 16 for more information

| Chemical name | Notes |
|-------------------------------|--------|
| Titanium dioxide - 13463-67-7 | V,W,10 |

SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice: Show this safety data sheet to the doctor in attendance.
If medical advice is needed, have product container or label at hand.
- Inhalation: Remove to fresh air. If symptoms persist, call a doctor.
- Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
- Skin contact: In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water.
- Ingestion: Call a doctor immediately. Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.
Small amounts of toxic methanol are released by hydrolysis.

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

Symptoms: None known.

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

Note to doctors : Treat symptomatically. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Unsuitable extinguishing media Full water jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x).
Silicon oxide.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters:
Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Ensure adequate ventilation.
Do not get in eyes, on skin, or on clothing.

For emergency responders Use personal protection recommended in Section 8.

6.2 Environmental precautions

Environmental precautions Prevent product from entering drains. Do not allow to enter into soil/subsoil.
See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Do not scatter spilled material with high pressure water streams.
Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation.
 General hygiene considerations: Do not eat, drink or smoke when using this product.
 Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Protect from moisture. Keep away from food, drink and animal feedingstuffs.
 Recommended storage temperature: Keep at temperatures between 10 and 35 °C.

7.3. Specific end use(s)

Specific end uses: Adhesives and/or sealants.
 Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.
 Other information: Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

8.1 Control parameters

Exposure Limits Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. This product contains titanium dioxide in a non-respirable form.
 Inhalation of titanium dioxide is unlikely to occur from exposure to this product.

| Chemical name | European Union |
|---------------------------|-------------------------------------------------|
| Methyl alcohol 67-56-1 | TWA: 200 ppm TWA: 260 mg/m ³ * |

Derived No Effect Level (DNEL) No information available

| Derived No Effect Level (DNEL) | | | |
|---------------------------------------------|----------------|--------------------------------|---------------|
| Titanium dioxide (13463-67-7) | | | |
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Local health effects | Inhalation | 10 mg/m ³ | |

| Trimethoxyvinylsilane (2768-02-7) | | | |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Systemic health effects Long term | Inhalation | 27,6 mg/m ³ | |
| worker Systemic health effects Long term | Dermal | 3,9 mg/kg bw/d | |

| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9) | | | |
|--------------------------------------------------------------|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Short term Long term Systemic health effects | Inhalation | 2.82 mg/m ³ | |
| worker Long term Systemic health effects | Dermal | 1.6 mg/kg | |

| Diocetyl tin oxide (870-08-6) | | | |
|------------------------------------------------|----------------|--------------------------------|---------------|
| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
| worker Long term Systemic health effects | Dermal | 0.05 mg/kg bw/d | |
| worker Long term Systemic health effects | Inhalation | 0.004 mg/m ³ | |

| Derived No Effect Level (DNEL) | | | |
|--------------------------------|--|--|--|
| Titanium dioxide (13463-67-7) | | | |
| | | | |

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Oral | 700 mg/kg bw/d | |

Trimethoxyvinylsilane (2768-02-7)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer Systemic health effects Long term | Inhalation | 18,9 mg/m ³ | |
| Consumer Systemic health effects Long term | Dermal | 7,8 mg/kg bw/d | |
| Consumer Systemic health effects Long term | Oral | 0,3 mg/kg bw/d | |

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Dermal | 0.8 mg/kg | |
| Consumer Long term Systemic health effects | Oral | 0.4 mg/kg | |

Diocetyl tin oxide (870-08-6)

| Type | Exposure route | Derived No Effect Level (DNEL) | Safety factor |
|--------------------------------------------------|----------------|--------------------------------|---------------|
| Consumer Long term Systemic health effects | Oral | 0.0005 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Dermal | 0.025 mg/kg bw/d | |
| Consumer Long term Systemic health effects | Inhalation | 0.0009 mg/m ³ | |

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)

Titanium dioxide (13463-67-7)

| Environmental compartment | Predicted No Effect Concentration (PNEC) |
|------------------------------------|------------------------------------------|
| Marine water | 0.0184 mg/l |
| Freshwater sediment | 1000 mg/kg |
| Freshwater | 0.184 mg/l |
| Marine sediment | 100 mg/kg |
| Soil | 100 mg/kg |
| Microorganisms in sewage treatment | 100 mg/l |
| Freshwater - intermittent | 0.193 mg/l |

Trimethoxyvinylsilane (2768-02-7)

| Environmental compartment | Predicted No Effect Concentration (PNEC) |
|---------------------------|------------------------------------------|
| Freshwater | 0.34 mg/l |
| Marine water | 0.034 mg/l |

| | |
|------------------------------------|----------|
| Microorganisms in sewage treatment | 110 mg/l |
|------------------------------------|----------|

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

| Environmental compartment | Predicted No Effect Concentration (PNEC) |
|---------------------------|------------------------------------------|
| Freshwater | 0.018 mg/l |
| Marine water | 0.0018 mg/l |
| Freshwater sediment | 29 mg/kg |
| Marine sediment | 2.9 mg/kg |
| Soil | 5.9 mg/kg |

Diocetyl tin oxide (870-08-6)

| Environmental compartment | Predicted No Effect Concentration (PNEC) |
|------------------------------------|------------------------------------------|
| Freshwater sediment | 0.02798 mg/kg dry weight |
| Marine sediment | 0.002798 mg/kg dry weight |
| Microorganisms in sewage treatment | 100 mg/l |

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face and hand protection: Wear safety glasses with side shields (or goggles).

Eye protection must conform to standard EN 166.

Wear suitable gloves. Recommended Use: Neoprene™. Nitrile rubber. Butyl rubber. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374

| | |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Skin and body protection | None under normal use conditions. |
| Respiratory protection: | In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. |
| Recommended filter type: | Ensure adequate ventilation, especially in confined areas. Organic gases and vapours filter conforming to EN 14387. White. Brown. |
| Environmental exposure controls | Do not allow uncontrolled discharge of product into the environment. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|--------------------------|
| Physical state | Solid |
| Appearance | Paste |
| Colour | White |
| Odour | Characteristic. |
| Odour threshold | No information available |

| Property | Values | Remarks | Method |
|-----------------------------------------|----------------------------|-----------------------------|--------|
| Melting point / freezing point | No data available | None known | |
| Initial boiling point and boiling range | No data available | None known | |
| Flammability | Not applicable for liquids | None known | |
| Flammability Limit in Air | | | |
| Upper flammability or explosive limits | No data available | | |
| Lower flammability or explosive limits | No data available | | |
| Flash point | > 60 °C | | |
| Autoignition temperature | No data available | None known | |
| Decomposition temperature | | None known | |
| pH (as aqueous solution) | No data available | | |
| Kinematic viscosity | > 21 mm ² /s | None known | |
| Dynamic viscosity | No data available | | |
| Water solubility | No data available | Product cures with moisture | |
| Solubility(ies) | No data available | None known | |
| Partition coefficient | No data available | None known | |
| Vapour pressure | No data available | None known | |
| Relative density | No data available | None known | |
| Bulk Density | No data available | | |
| Density | 1.33 | | |
| Relative vapour density | No data available | None known | |
| Particle characteristics | | | |
| Particle Size | No information available | | |
| Particle Size Distribution | No information available | | |

9.2. Other information

| | |
|-------------------|--------------------------|
| Solid content (%) | No information available |
| VOC Content (%) | No data available |

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Product cures with moisture.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

| | |
|----------------------------------|-------|
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

SECTION 10: Continues

10.4. Conditions to avoid

Conditions to avoid

Product cures with moisture. Protect from moisture.
Exposure to air or moisture over prolonged periods. Do not freeze.
Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Incompatible materials

None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products

None under normal use conditions.
Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product information

| | |
|--------------|----------------------------------------------------------------------------------------------------------------------|
| Inhalation | Based on available data, the classification criteria are not met.. |
| Eye contact | Based on available data, the classification criteria are not met. |
| Skin contact | Based on available data, the classification criteria are not met. May cause sensitisation in susceptible persons. |
| Ingestion | Based on available data, the classification criteria are not met. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (inhalation-vapour) 708.00 mg/l

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-----------------------------------------------|-------------------------------------------|--------------------------------------|-------------------------------------------|
| Titanium dioxide | >10000 mg/kg (Rattus) | LD50 > 5000 mg/Kg | = 5.09 mg/L (Rattus) 4 h |
| Trimethoxyvinylsilane | LD50 = 7120 -7236 mg/kg (Rattus) OECD 401 | = 3540 mg/kg (Oryctolagus cuniculus) | LC50 (4hr) 16.8 mg/l (Rattus) OECD TG 403 |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | LD50 (Rattus)> 2000 mg/kg OECD 423 | LD50 (Rattus) > 3 170 mg/kg OECD 402 | =500 mg/m ³ (Rattus) 4 h |
| Dioctyltin oxide | =2500 mg/kg (Rattus) | LD50 > 2000 mg/kg (Rattus) OECD 402 | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

| Titanium dioxide (13463-67-7) | | | | | |
|------------------------------------------------------------|---------|----------------|----------------|---------------|--------------|
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit | Dermal | | | Non-irritant |
| Trimethoxyvinylsilane (2768-02-7) | | | | | |
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| | Rabbit | Dermal | 0.5 mL | 24 hours | Non-irritant |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9) | | | | | |
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit | Dermal | | | Non-irritant |

SECTION 11: Continues

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

| Titanium dioxide (13463-67-7) | | | | | |
|------------------------------------------------------------|---------|----------------|----------------|---------------|--------------|
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | Eye | | | Non-irritant |
| Trimethoxyvinylsilane (2768-02-7) | | | | | |
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | 24 hours | Non-irritant |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9) | | | | | |
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit | eye | | | Eye Damage |

Respiratory or skin sensitisation OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. No classification is proposed, based on conclusive negative data. May cause sensitisation in susceptible persons.

| Method | Species | Exposure route | Results |
|---------------------------------------|------------|----------------|------------------------------------------|
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal | No sensitisation responses were observed |
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal | No sensitisation responses were observed |

| Titanium dioxide (13463-67-7) | | | |
|---------------------------------------------------------------|------------|----------------|-----------------------|
| Method | Species | Exposure route | Results |
| OECD Test No. 406: Skin Sensitisation | Guinea pig | Dermal | Not a skin sensitiser |
| OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay | Mouse | Dermal | Not a skin sensitiser |

| Trimethoxyvinylsilane (2768-02-7) | | | |
|-----------------------------------------------------|------------|----------------|-------------|
| Method | Species | Exposure route | Results |
| OECD Test No. 406: Skin Sensitisation, Buehler test | Guinea pig | Dermal | sensitising |

| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9) | | | |
|------------------------------------------------------------|------------|----------------|------------------------------------------|
| Method | Species | Exposure route | Results |
| OECD Test No. 406: Skin Sensitisation | Guinea pig | | No sensitisation responses were observed |

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Component Information

| Trimethoxyvinylsilane (2768-02-7) | | |
|----------------------------------------------------|----------|---------------|
| Method | Species | Results |
| OECD Test No. 471: Bacterial Reverse Mutation Test | in vitro | Not mutagenic |

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

| Trimethoxyvinylsilane (2768-02-7) | | |
|----------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|
| Method | Species | Results |
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat | Not Classifiable |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9) | | |
| Method | Species | Results |
| OECD Test No. 414: Pre-natal Development Toxicity Study | Rat, Rabbit | reproductive toxicant |

SECTION 11: Continues

STOT - single exposure

Based on available data, the classification criteria are not met.

| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9) | | | | | |
|----------------------------------------------------------------------------------------------------------------------|---------|----------------|----------------|---------------|------------------------------------------------------------------------------|
| Diocetyl tin oxide (870-08-6) | | | | | |
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 422: Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test | Rat | Oral | 5 mg/kg | 28 days | 0.3 - 0.5 mg/kg bw/d May cause damage to the following organs: Immune system |

STOT - repeated exposure

Based on available data, the classification criteria are not met.

| Trimethoxyvinylsilane (2768-02-7) | | | | | |
|------------------------------------------------------------------|---------|-------------------|----------------|---------------|-------------|
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| OECD Test No. 413: Sub-chronic Inhalation Toxicity: 90-day Study | Rat | Inhalation vapour | | 90 days | 0.058 NOAEL |

| Diocetyl tin oxide (870-08-6) | | | | | |
|-------------------------------|------------|----------------|----------------|---------------|---------------------|
| Method | Species | Exposure route | Effective dose | Exposure time | Results |
| | Rat Rabbit | | | 28 days | 0.3 -0.5 mg/kg bw/d |

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

No information available.

11.2.2. Other information

Other adverse effects

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Harmful to aquatic life.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea | M-Factor | M-Factor (long-term) |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------|----------|----------------------|
| Titanium dioxide 13463-67-7 | LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203 | - | - | - | | |
| Trimethoxyvinylsilane 2768-02-7 | EC 50 (72h) > 957 mg/l (Desmodesmus subspicatus) EU Method C.3 | LC 50 (96h) = 191 mg/l (Oncorhynchus mykiss) | - | EC50(48hr) 168.7mg/l (Daphnia magna) | | |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate 52829-07-9 | EC50 72Hr 0.705 mg/l (Pseudokirchnerella subcapitata) | LC50 (96h) = 5.29 mg/l (Oryzias latipes) | - | LC50 48Hr 8.58 mg/l (Daphnia magna) | | |
| Diocetyl tin oxide 870-08-6 | EC50 (3hr) >1.000 mg/l (bacteria) (Activated Sludge, Respiration Inhibition Test) | LC50 (96hr) >0,09 mg/l (Brachydanio rerio (zebra)) (Acute Toxicity Test) | - | EC50 (48Hr) >0,21 mg/l (Daphnia magna (Dappnia magna)) (Daphnia sp. Acute Immobilisation Test) | | |

12.2. Persistence and degradability

Persistence and degradability Persistence and degradability

Trimethoxyvinylsilane (2768-02-7)

| Method | Exposure time | Value | Results |
|-------------------------------------------------------------------------------------|---------------|-------|--------------------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 28 days | BOD | 51 % Not readily biodegradable |

Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate (52829-07-9)

| Method | Exposure time | Value | Results |
|---------------------------------------------------------------------------------------------------------|---------------|----------------------------|---------------|
| OECD Test No. 303: Simulation Test - Aerobic Sewage Treatment -- A: Activated Sludge Units; B: Biofilms | 28 days | Total organic carbon (TOC) | 24 % Moderate |

Diocetyl tin oxide (870-08-6)

| Method | Exposure time | Value | Results |
|-------------------------------------------------------------------------------------|---------------|----------------|-------------------------------|
| OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) | 755 hours | biodegradation | Not readily biodegradable 2 % |

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|-----------------------------------------------|-----------------------|
| Trimethoxyvinylsilane | 1.1 |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | 0.35 |
| Diocetyl tin oxide | 6 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment |
|-----------------------------------------------|---------------------------------------------------------------|
| Titanium dioxide | The substance is not PBT / vPvB PBT assessment does not apply |
| Trimethoxyvinylsilane | The substance is not PBT / vPvB |
| Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate | The substance is not PBT / vPvB |
| Diocetyl tin oxide | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Waste from residues/unused products | Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable. |
| Contaminated packaging | Handle contaminated packages in the same way as the product itself. |
| European Waste Catalogue | 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09 |
| Other information | Waste codes should be assigned by the user based on the application for which the product was used |

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|---------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not Applicable |
| 14.6 Special Provisions | None |

IMDG

| | |
|--------------------------------------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Marine pollutant | NP |
| 14.6 Special Provisions | None |
| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable |

Air transport (ICAO-TI / IATA-DGR)

| | |
|---------------------------------|----------------|
| 14.1 UN number or ID number | Not regulated |
| 14.2 Proper Shipping Name | Not regulated |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special Provisions | None |

Section 15: REGULATORY INFORMATION

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical name | CAS No | Restricted substance per REACH Annex XVII |
|--------------------|----------|-------------------------------------------|
| Diocetyl tin oxide | 870-08-6 | 20. |

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Export Notification requirements

This product contains substances which are regulated pursuant to Regulation (EC) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals

| Chemical name | European Export/Import Restrictions per (EC) 689/2008 - Annex Number |
|-------------------------------|----------------------------------------------------------------------|
| Diocetyl tin oxide - 870-08-6 | I.1 |

SECTION 15: Continues

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Persistent Organic Pollutants

Not applicable

National regulations

France

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV

No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)

Not Listed

Denmark

Registration number(s) (P-no.) No information available

Norway

Registration number(s) (PRN-no.) No information available

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa.

No Chemical Safety Assessment has been carried out for this mixture.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H226 - Flammable liquid and vapour

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H361f - Suspected of damaging fertility

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Notes assigned to an entry

Note V: If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied

Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung

Notes relating to the classification and labelling of mixtures

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

STOT RE: Specific target organ toxicity - Repeated exposure

STOT SE: Specific target organ toxicity - Single exposure

EWC: European Waste Catalogue

SECTION 16: Other information

LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IATA: International Air Transport Association

ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG: International Maritime Dangerous Goods

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

| | | | |
|---------|-----------------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| AGW | Occupational exposure limit value | BGW | Biological limit value |
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | |
|-----------------------------------------------------------------|-----------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - Vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | On basis of test data |
| mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |
| Reproductive toxicity | Calculation method |
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)

European Chemicals Agency (ECHA) (ECHA_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

NIOSH (National Institute for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

| | |
|----------------------------|-----------------------------------------------------------------------------------------|
| Prepared By | Product Safety & Regulatory Affairs |
| Revision date | 17-october 2023 |
| Training Advice | When working with hazardous materials, regular training of operators is required by law |
| Further information | No information available |

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of data sheet



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