

AUTOSEAL

| | | | |
|---------------|--------------------|---------|-----|
| Creation date | 21st November 2022 | Version | 2.0 |
| Revision date | | | |

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

- 1.1. Product identifier** AUTOSEAL
Substance / mixture mixture
Number R 34501 - WHITE/R 34502 - GREY/R 34503 - BLACK
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
Barrier (Sealant).
Mixture uses advised against
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**
Supplier
Name or trade name RETECH, s.r.o.
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00
Czech Republic
Identification number (CRN) 25018205
VAT Reg No CZ25018205
Phone +420327596428
E-mail info@retech.cz
Web address www.retech.com
- Competent person responsible for the safety data sheet**
Name RETECH, s.r.o.
E-mail info@retech.cz
- 1.4. Emergency telephone number**
European emergency number: 112

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**
Classification of the mixture in accordance with Regulation (EC) No 1272/2008
The mixture is classified as dangerous.

Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment
Harmful to aquatic life with long lasting effects.
- 2.2. Label elements**

Hazard statements
H412 Harmful to aquatic life with long lasting effects.
Precautionary statements
P273 Avoid release to the environment.
P501 Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.
- 2.3. Other hazards**
The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Mixture of substances and additives specified below.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

| Identification numbers | Substance name | Content in % weight | Classification according to Regulation (EC) No 1272/2008 | Note |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------|------|
| Index: 616-200-00-1 EC: 432-430-3 Registration number: 01-0000017860-69 | reaction mass of N, N'-ethane-1,2-diylbis (hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide) | 2,5-<10 | Aquatic Chronic 4, H413 | 2 |
| EC: 932-078-5 Registration number: 01-2119552497-29 | hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics | 1-<10 | Asp. Tox. 1, H304 | 1, 2 |
| CAS: 2768-02-7 EC: 220-449-8 Registration number: 01-2119513215-52 | Trimethoxyvinylsilane | 1-<5 | Flam. Liq. 3, H226 Acute Tox. 4, H332 STOT RE 2, H373 | 1 |
| CAS: 63843-89-0 EC: 264-513-3 Registration number: 01-2119978231-37 | Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate | 0,1-<1 | Acute Tox. 4, H302 STOT RE 1, H372 Aquatic Chronic 1, H410 (M=10) | |
| CAS: 54068-28-9 EC: 483-270-6 Registration number: 01-0000020199-67 | Dioctylbis(pentane-2,4-dionato-O,O')tin | 0,1-<1 | Skin Sens. 1, H317 STOT SE 2, H371 STOT RE 2, H373 Specific concentration limit: Skin Sens. 1, H317: C > 5 % | 1 |

Notes

- The use of the substance is restricted by Annex XVII of REACH Regulation
- Substance of unknown or variable composition, complex reaction products or biological materials - UVCB.

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

If on skin

Immediately wash with water and soap and rinse thoroughly. In the event of issues, find medical advice.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical advice.

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4.2. Most important symptoms and effects, both acute and delayed**If inhaled**

Not expected.

If on skin

Not expected.

If in eyes

Not expected.

If swallowed

Not expected.

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

not available

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

Water spray, polyvalent foam, ABC powder, carbon dioxide.

Unsuitable extinguishing media

not available

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

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

Use personal protective equipment for work. Remove all ignition sources. Prevent contact with skin and eyes.

6.2. Environmental precautions

Prevent other leakage. Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13. After removal of the product, wash the contaminated site with plenty of water. Wash contaminated clothing before reuse.

6.4. Reference to other sections

See the Section 7, 8 and 13.

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

Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Keep away from heat, open flames.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Store in a dry place. Keep away from sources of heating, ignition and direct sunlight. Do not allow contact with water. Protect from moisture.

Storage temperature

20 °C

7.3. Specific end use(s)

not available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

The mixture contains no substances for which occupational exposure limits are set.

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DNEL

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 0.05 mg/m ³ | Systemic chronic effects | | |
| Workers | Dermal | 0.07 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 0.01 mg/m ³ | Systemic chronic effects | | |
| Consumers | Dermal | 0.033 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 0.003 mg/kg bw/day | Systemic chronic effects | | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 84 mg/m ³ | Systemic chronic effects | | |
| Workers | Inhalation | 84 mg/m ³ | Systemic acute effects | | |
| Workers | Inhalation | 0.091 mg/m ³ | Local chronic effects | | |
| Workers | Dermal | 0.07 mg/kg bw/day | Systemic chronic effects | | |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecan amide)

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-------------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 35.24 mg/m ³ | Systemic chronic effects | | |
| Workers | Dermal | 10 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 5 mg/kg bw/day | Systemic chronic effects | | |

Trimethoxyvinylsilane

| Workers / consumers | Route of exposure | Value | Effect | Value determination | Source |
|---------------------|-------------------|-----------------------|--------------------------|---------------------|--------|
| Workers | Inhalation | 2.6 mg/m ³ | Systemic chronic effects | | |
| Workers | Dermal | 0.2 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Inhalation | 0.7 mg/m ³ | Systemic chronic effects | | |
| Consumers | Dermal | 0.1 mg/kg bw/day | Systemic chronic effects | | |
| Consumers | Oral | 0.1 mg/kg bw/day | Systemic chronic effects | | |
| Workers | Inhalation | 2.6 mg/m ³ | Systemic acute effects | | |
| Workers | Dermal | 0.2 mg/kg bw/day | Systemic acute effects | | |
| Consumers | Inhalation | 0.7 mg/m ³ | Systemic acute effects | | |
| Consumers | Dermal | 0.1 mg/kg bw/day | Systemic acute effects | | |

PNEC

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Route of exposure | Value | Value determination | Source |
|------------------------|--------|---------------------|--------|
| Freshwater environment | 0 mg/l | | |

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Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Route of exposure | Value | Value determination | Source |
|-----------------------------------------------|------------------------------------------|---------------------|--------|
| Seawater | 0 mg/l | | |
| Seawater (intermittent release) | 0.61 mg/l | | |
| Microorganisms in wastewater treatment plants | 1 mg/l | | |
| Freshwater sediment | 504.4 mg/kg of dry substance of sediment | | |
| Sea sediments | 50.44 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 1 mg/kg of dry substance of soil | | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Route of exposure | Value | Value determination | Source |
|-----------------------------------------------|-------------------------------------------|---------------------|--------|
| Freshwater environment | 0.026 mg/l | | |
| Seawater | 0.0026 mg/l | | |
| Water (intermittent release) | 0.26 mg/l | | |
| Freshwater sediment | 0.155 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.0155 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 0.0158 mg/kg of dry substance of soil | | |
| Microorganisms in wastewater treatment plants | 1 mg/l | | |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

| Route of exposure | Value | Value determination | Source |
|-----------------------------------------------|-----------------------------------------|---------------------|--------|
| Freshwater environment | 0.009 mg/l | | |
| Water (intermittent release) | 3.7 mg/l | | |
| Seawater | 0.001 mg/l | | |
| Microorganisms in wastewater treatment plants | 100 mg/l | | |
| Freshwater sediment | 384 mg/kg of dry substance of sediment | | |
| Seawater | 38.4 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 52.1 mg/kg of dry substance of soil | | |
| Food chain | 222.2 mg/kg of food | | |

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Trimethoxyvinylsilane

| Route of exposure | Value | Value determination | Source |
|-----------------------------------------------|-----------------------------------------|---------------------|--------|
| Freshwater environment | 0.36 mg/l | | |
| Seawater | 0.036 mg/l | | |
| Microorganisms in wastewater treatment plants | 6.6 mg/l | | |
| Freshwater sediment | 1.3 mg/kg of dry substance of sediment | | |
| Sea sediments | 0.13 mg/kg of dry substance of sediment | | |
| Soil (agricultural) | 0.055 mg/kg of dry substance of soil | | |

8.2. Exposure controls

Keep away from heat, open flames. Follow the usual measures intended for health protection at work and especially for good ventilation. Keep container tightly closed. Do not eat, drink and smoke during work.

Eye/face protection

It is not needed.

Skin protection

Hand protection: Protective gloves resistant to the product. Other protection: protective workwear.

Respiratory protection

Mask with a filter in a poorly ventilated environment.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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

| | |
|----------------------------------------------------------|--------------------------------|
| Physical state | liquid |
| Colour | white, black, grey |
| Odour | mild |
| Melting point/freezing point | data not available |
| Boiling point or initial boiling point and boiling range | data not available |
| Flammability | data not available |
| Lower and upper explosion limit | data not available |
| Flash point | >240 °C |
| Auto-ignition temperature | data not available |
| Decomposition temperature | data not available |
| pH | data not available |
| Kinematic viscosity | data not available |
| Solubility in water | insoluble |
| Solubility in fats | data not available |
| Solubility solubility in organic solvents | soluble |
| Partition coefficient n-octanol/water (log value) | data not available |
| Vapour pressure | data not available |
| Density and/or relative density | |
| Density | 1,4 g/cm ³ at 20 °C |
| Relative density | 1,4 |
| Form | cream / paste |
| data not available | |

9.2. Other information

| | |
|------------------|----------------|
| Evaporation rate | non-applicable |
|------------------|----------------|

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SECTION 10: Stability and reactivity
10.1. Reactivity

Heating increases the fire hazard.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

not available

10.4. Conditions to avoid

Keep away from heat, open flames.

10.5. Incompatible materials

Do not allow contact with water. Protect from moisture.

10.6. Hazardous decomposition products

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

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

No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Value determination | Source |
|-----------------------|------------------|----------|-------------------------------|---------------|---------|-----|---------------------|--------|
| Oral | LD ₅₀ | OECD 401 | 1490 mg/kg bw | | Rat | F/M | Experimentally | |
| Dermal | LD ₅₀ | OECD 402 | >3170 mg/kg bw | 24 hour | Rat | F/M | Experimentally | |
| Inhalation (aerosols) | LC ₅₀ | OECD 403 | >460 mg/m ³ of air | 4 hour | Rat | F/M | Experimentally | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Value determination | Source |
|--------------------|------------------|----------|----------------|---------------|---------|-----|---------------------|------------------------|
| Oral | LD ₅₀ | OECD 423 | 2500 mg/kg | | Rat | F | Experimentally | |
| Dermal | LD ₅₀ | OECD 402 | >2000000 mg/kg | 24 hour | Rat | F/M | Experimentally | |
| Inhalation (vapor) | LD ₅₀ | | 1224 ppm | 4 hour | Rat | F/M | Experimentally | Equivalent to OECD 403 |

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Value determination | Source |
|-----------------------|------------------|----------|--------------------------------|---------------|---------|-----|---------------------|--------|
| Oral | LD ₅₀ | OECD 401 | >5000 mg/kg bw | | Rat | F/M | Experimentally | |
| Dermal | LD ₅₀ | OECD 402 | >3160 mg/kg bw | 24 hour | Rabbit | F/M | Experimentally | |
| Inhalation (aerosols) | LC ₅₀ | OECD 403 | >5266 mg/m ³ of air | 4 hour | Rat | F/M | Experimentally | |

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reaction mass of N, N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Value determination | Source |
|-------------------|------------------|--------|-------------|---------------|---------|-----|---------------------|--------|
| Oral | LD ₅₀ | | >2000 mg/kg | | | | Literary studies | |
| Dermal | LD ₅₀ | | >2000 mg/kg | | | | Literary studies | |

Trimethoxyvinylsilane

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Sex | Value determination | Source |
|--------------------|------------------|----------|--------------------|---------------|---------|-----|---------------------|--------|
| Oral | LD ₅₀ | OECD 401 | 7120-7236 mg/kg bw | | Rat | F/M | Experimentally | |
| Dermal | LD ₅₀ | OECD 402 | 3259 mg/kg bw | 24 hour | Rabbit | F | | |
| Inhalation (vapor) | LC ₅₀ | OECD 403 | 16.81 mg/l | 4 hour | Rat | F/M | Experimentally | |

Skin corrosion/irritation

Based on available data the classification criteria are not met.

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|----------|---------------------|---------|---------------------|
| Skin | Not irritating | OECD 404 | 4 hour (72 hod.) | Rabbit | Experimentally |
| Skin | Not irritating | | 24 hour (72 hod.) | Human | Experimentally |

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|----------|-------------------|---------|---------------------|
| Dermal | Not irritating | OECD 404 | 24 hour (24 , 0) | Rabbit | Experimentally |

Dioctylbis(pentane-2,4-dionato-O,O')tin

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|----------|---------------|---------|---------------------|
| Skin | Not irritating | OECD 404 | 4 hour | Rabbit | Experimentally |

Trimethoxyvinylsilane

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|--------|---------------|---------|---------------------|
| Skin | Not irritating | | 24 hour | Rabbit | Experimentally |

Serious eye damage/irritation

Based on available data the classification criteria are not met.

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|----------|---------------------|---------|---------------------|
| Eye | Not irritating | OECD 405 | 24 hour (72 hod.) | Rabbit | Experimentally |

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|----------|---------------------|---------|---------------------|
| Eye | Not irritating | OECD 405 | 0,5 min (72 hod.) | Rabbit | Experimentally |

Dioctylbis(pentane-2,4-dionato-O,O')tin

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|----------|---------------|---------|---------------------|
| Eye | Not irritating | OECD 405 | | Rabbit | Experimentally |

Trimethoxyvinylsilane

| Route of exposure | Result | Method | Exposure time | Species | Value determination |
|-------------------|----------------|----------|---------------|---------|---------------------|
| Eye | Not irritating | OECD 405 | 24 hour | Rabbit | Experimentally |

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Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

| Route of exposure | Result | Method | Exposure time | Species | Sex | Value determination |
|-------------------|-----------------|----------|--------------------|---------|-----|---------------------|
| Skin | Not sensitizing | OECD 406 | 24 hour (24 , 0) | Hamster | F | Read-across |
| Skin | Not sensitizing | | 216 hour (24 , 0) | Human | F/M | Experimentally |
| Skin | Not sensitizing | OECD 406 | | Hamster | F/M | Experimentally |

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Route of exposure | Result | Method | Exposure time | Species | Sex | Value determination |
|-------------------|-----------------|--------|---------------|------------|-----|---------------------|
| Dermal | Not sensitizing | | | Guinea-pig | F/M | Experimentally |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Route of exposure | Result | Method | Exposure time | Species | Sex | Value determination |
|-------------------|-------------|----------|---------------|---------|-----|---------------------|
| Skin | Sensitizing | OECD 429 | | Mouse | F | Experimentally |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecan amide)

| Route of exposure | Result | Method | Exposure time | Species | Sex | Value determination |
|-------------------|-----------------|----------|---------------|---------|-----|---------------------|
| | Not sensitizing | OECD 429 | | Mouse | | Experimentally |

Mutagenicity

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Result | Method | Exposure time | Specific target organ | Species | Sex | Value determination | Source |
|--------------------------------------------------------------------------------------|----------|---------------|-----------------------|-----------------------------------|-----|---------------------|-----------|
| Negative without metabolic activation, Negative with metabolic activation, No effect | | | | Bacteria (Salmonella typhimurium) | | Experimentally | Ames test |
| Negative without metabolic activation, Negative with metabolic activation, No effect | OECD 476 | | Ovary | Chinese hamster | | Experimentally | |
| Positive without metabolic activation, Positive with metabolic activation | OECD 473 | | Ovary | Chinese hamster | | Experimentally | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Result | Method | Exposure time | Specific target organ | Species | Sex | Value determination | Source |
|---------------------|----------|---------------|-----------------------|-----------------------------------|-----|---------------------|----------|
| No effect, Negative | OECD 476 | | Lung fibroblast | Chinese hamster | | Experimentally | in vitro |
| No effect, Negative | OECD 473 | | Lung fibroblast | Chinese hamster | | Experimentally | in vitro |
| No effect, Negative | OECD 471 | | | Bacteria (Salmonella typhimurium) | | Experimentally | in vitro |

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Dioctylbis(pentane-2,4-dionato-O,O')tin

| Result | Method | Exposure time | Specific target organ | Species | Sex | Value determination | Source |
|----------|----------|---------------|-----------------------|---------|-----|---------------------|---------|
| Negative | OECD 474 | | Bone marrow | Mouse | M | Experimentally | in vivo |

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Result | Method | Exposure time | Specific target organ | Species | Sex | Value determination | Source |
|----------|----------|----------------------------------|-----------------------|-----------------------------------|-----|---------------------|----------|
| Negative | OECD 471 | | | Bacteria (Salmonella typhimurium) | | Experimentally | in vitro |
| Negative | OECD 483 | 8 week (6 hour/day, 5 days/week) | | Mouse | M | Read-across | in vivo |
| Negative | OECD 475 | | | Rat | F/M | Read-across | in vivo |
| Negative | OECD 474 | | | Mouse | F/M | Read-across | in vivo |

reaction mass of N, N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

| Result | Method | Exposure time | Specific target organ | Species | Sex | Value determination | Source |
|----------|----------|---------------|-----------------------|-----------------------------------|-----|---------------------|-----------------------------|
| Negative | in vitro | | | Bacteria (Salmonella typhimurium) | | Literary studies | Ames test |
| Negative | in vitro | | | Bacteria (Escherichia Coli) | | Literary studies | Ames test |
| Negative | in vitro | | | Human | | Literary studies | Chromosome aberration assay |

Trimethoxyvinylsilane

| Result | Method | Exposure time | Specific target organ | Species | Sex | Value determination | Source |
|--------------------------------------------------------------------------------------------------|----------|---------------|----------------------------|-----------------|-----|---------------------|--------------------------|
| Chromosome aberration, Positive without metabolic activation, Positive with metabolic activation | OECD 473 | | | Chinese hamster | | Experimentally | in vitro |
| Negative without metabolic activation, Negative with metabolic activation | OECD 476 | | Female reproductive organs | Chinese hamster | | Experimentally | in vitro |
| Negative | | | | Mouse | F/M | Experimentally | in vivo EPA 560/6-83-001 |

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Germ cell mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Based on available data the classification criteria are not met.

Reproductive toxicity

Based on available data the classification criteria are not met.

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Effect | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|--------|-----------|----------|------------------|---------------|-----------------------|-----------|---------|-----|---------------------|--------|
| | NOAEL | OECD 421 | ≥10 mg/kg bw/day | 36-50 day | | No effect | Rat | F/M | Experimentally | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Effect | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|----------------------|-----------|----------|----------------------|---------------|-----------------------|-----------|---------|-----|---------------------|--------|
| | NOAEL | OECD 422 | 0.3-0.5 mg/kg bw/day | 28 day | Lymphatic system | No effect | Rat | | Experimentally | |
| Effects on fertility | NOAEL | OECD 422 | 0.3-0.5 mg/kg bw/day | 28 day | | No effect | Rat | F/M | Experimentally | |

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Effect | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|------------------------|-----------|----------|--------------------|-----------------------------------|-----------------------|-----------|---------|-----|---------------------|--------|
| Developmental toxicity | NOAEL | OECD 414 | >1000 mg/kg bw/day | 10 day | | No effect | Rat | | Experimentally | |
| Effects on fertility | NOAEC | OECD 416 | ≥1500 ppm | 13 week (6 hour/day, 5 days/week) | | No effect | Rat | F/M | Read-across | |
| Effects on fertility | NOAEC | OECD 421 | ≥300 ppm | 8 week (6 hour/day, 5 days/week) | | No effect | Rat | F/M | Read-across | |
| Effects on fertility | NOAEL | OECD 422 | >1000 mg/kg bw/day | 6 week (7 days/week) | | No effect | Rat | F/M | Read-across | |

Trimethoxyvinylsilane

| Effect | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|------------------------|-----------|----------|-------------------|---------------------|-----------------------|-----------|---------|-----|---------------------|-------------------|
| Developmental toxicity | NOAEL | | 100 ppm | 10 day (6 hour/day) | | No effect | Rat | F | Experimentally | EPA OTS 798.43 50 |
| Effects on fertility | NOAEL | | 25 ppm | 10 day (6 hour/day) | | No effect | Rat | F | Experimentally | EPA OTS 798.43 50 |
| Effects on fertility | NOAEL (P) | OECD 422 | 1000 mg/kg bw/day | ≤43 day | | No effect | Rat | M | Experimentally | |

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| Effect | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|----------------------|-----------|----------|------------------|---------------|-----------------------|-----------|---------|-----|---------------------|--------|
| Effects on fertility | NOAEL (P) | OECD 422 | 250 mg/kg bw/day | ≥60 day | | No effect | Rat | F | Experimentally | |

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Route of exposure | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|-------------------|-----------|----------|-----------------|---------------|-----------------------|------------------------------------|---------|-----|---------------------|--------|
| Oral | LOAEL | OECD 421 | 10 mg/kg bw/day | 28 day | Lymphatic system | Positive | Rat | F/M | Experimentally | |
| Oral | LOAEL | OECD 421 | 10 mg/kg bw/day | 28 day | Liver | Enlargement of effect on the liver | Rat | F/M | Experimentally | |
| Oral | LOAEL | OECD 421 | 10 mg/kg bw/day | 28 day | Spleen | Positive | Rat | F/M | Experimentally | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Route of exposure | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|--------------------|-----------|----------|------------------|-----------------------------------|-----------------------|----------------|---------|-----|---------------------|------------------------|
| Oral | NOAEL | OECD 422 | 0.3 mg/kg bw/day | 28 day | Lymphatic system | No effect | Rat | F/M | Experimentally | |
| Inhalation (vapor) | NOEC | | 100 ppm | 14 week (6 hour/day, 5 days/week) | | No effect | Rat | F/M | Experimentally | Equivalent to OECD 413 |
| Inhalation (vapor) | LOAEC | | 650 ppm | 14 week (6 hour/day, 5 days/week) | | Histopathology | Rat | F/M | Experimentally | Equivalent to OECD 413 |

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Route of exposure | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|--------------------|-----------|----------|---------------------------------|----------------------------------|-----------------------|-----------|---------|-----|---------------------|--------|
| Oral | NOAEL | OECD 408 | ≥5000 mg/kg bw/day | 13 day | | No effect | Rat | F/M | Read-across | |
| Inhalation (vapor) | NOAEC | OECD 413 | ≥10400 mg/m ³ of air | 13 day (6 hour/day, 5 days/week) | | No effect | Rat | F/M | Read-across | |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

| Route of exposure | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|-------------------|-----------|--------|-------------------|---------------|-----------------------|-----------|---------|-----|---------------------|--------|
| | NOAEL | | 1000 mg/kg bw/day | 28 day | | No effect | Rat | | Literary studies | |

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| Route of exposure | Parameter | Method | Value | Exposure time | Specific target organ | Result | Species | Sex | Value determination | Source |
|--------------------|-----------|----------|-------------------|-----------------------------------|-----------------------|---------------------------|---------|-----|---------------------|--------|
| Oral | LOAEL | OECD 422 | 62.5 mg/kg bw/day | | | Histopathological changes | Rat | M | Experimentally | |
| Inhalation (vapor) | NOAEC | | 10 ppm | 14 week (6 hour/day, 5 days/week) | Undefined | No effect | Rat | F/M | Experimentally | |

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

Harmful to aquatic life with long lasting effects.

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
|------------------|----------|-----------|---------------|----------------------------------------------------------|------------------|-----------------------------------------|--------|
| LC ₅₀ | OECD 203 | >100 mg/l | 96 hour | Fishes (Danio rerio) | Freshwater | Experimentally, GLP, Semi static system | |
| EC ₅₀ | | 61 mg/l | 72 hour | Algae and other aquatic plants (Scenedesmus subspicatus) | Freshwater | Biomass, Experimentally, Static system | |
| NOEC | OECD 211 | 2 µg/l | 21 day | Daphnia (Daphnia magna) | Freshwater | Experimentally, GLP, Semi static system | |
| IC ₅₀ | OECD 209 | >100 mg/l | 3 hour | Microorganisms | Activated sludge | Experimentally, Static system | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
|------------------|----------|-----------|---------------|---------------------------------|-------------|-------------------------------|--------|
| LC ₅₀ | OECD 203 | 86 mg/l | 96 hour | Fishes (Pisces) | | Experimentally, Static system | |
| EC ₅₀ | OECD 202 | 58.6 mg/l | 48 hour | Daphnia (Daphnia magna) | | Experimentally, Static system | |
| EC ₅₀ | OECD 201 | 300 mg/l | 24 hour | Algae (Scenedesmus subspicatus) | | Experimentally, Static system | |

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
|------------------|----------|------------|---------------|-------------------------------|-------------|---------------------|--------|
| LC ₅₀ | OECD 203 | >1028 mg/l | 96 hour | Fishes (Scophthalmus maximus) | | Experimentally | |

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hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
|-------------------|-----------|-------------|---------------|-------------------------------------------------------|-------------|---------------------|--------|
| LC ₅₀ | | >3193 mg/l | 48 hour | Invertebrates (Acartia tonsa) | | Experimentally | |
| ErC ₅₀ | ISO 10253 | >10000 mg/l | 72 hour | Algae and other aquatic plants (Skeletonema costatum) | | Experimentally | |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecan amide)

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
|------------------|--------|------------|---------------|--------------------------------|-------------|----------------------|-------------|
| LC ₅₀ | | >1000 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | | Literary studies | |
| EC ₅₀ | | >1000 mg/l | 48 hour | Invertebrates (Daphnia magna) | | Literary studies | |
| EC ₅₀ | | 85 mg/l | 96 hour | Algae and other aquatic plants | | Calculation of value | EPIWIN 3.10 |

Trimethoxyvinylsilane

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination | Source |
|------------------|---------------------|------------|---------------|-----------------------------------------|-------------|------------------------------------------------------|----------------|
| LC ₅₀ | | 191 mg/l | 96 hour | Fishes (Oncorhynchus mykiss) | Freshwater | Experimentally, Nominal concentration | |
| EC ₅₀ | EU C.2 (84/449/EEC) | 168.7 mg/l | 48 hour | Daphnia (Daphnia magna) | Freshwater | Experimentally, GLP, Static system | |
| EC ₅₀ | | 210 mg/l | 7 day | Algae (Pseudokirchneriella subcapitata) | Freshwater | Experimentally, Nominal concentration, Static system | EPA 67014-73-0 |

Chronic toxicity

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination |
|------------------|----------|------------|---------------|---------------------------------------|-------------|---------------------|
| NOEL | | >1000 mg/l | 28 day | Fishes (Oncorhynchus mykiss) | | QSAR |
| NOEL | | >1000 mg/l | 21 day | Aquatic invertebrates (Daphnia magna) | | QSAR |
| EC ₅₀ | OECD 209 | >100 mg/l | 3 hour | Aquatic microorganisms | Freshwater | Experimentally |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecan amide)

| Parameter | Method | Value | Exposure time | Species | Environment | Value determination |
|-----------|--------|----------|---------------|---------------------------------------|-------------|------------------------------------|
| NOEC | | 0.9 mg/l | 21 day | Aquatic invertebrates (Daphnia magna) | Freshwater | Experimentally, Semi static system |

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| Parameter | Method | Value | Exposure time | Species | Environment | Value determination |
|-----------|----------|-----------|---------------|-------------------------|-------------|-----------------------------------------|
| NOEC | OECD 211 | 28.1 mg/l | 21 day | Daphnia (Daphnia magna) | Freshwater | Experimentally, GLP, Semi static system |

12.2. Persistence and degradability
Biodegradability

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Parameter | Method | Value | Exposure time | Environment | Value determination | Result | Source |
|--------------------|-----------|-------|---------------|-------------|---------------------|--------|--------|
| CO2 Evolution Test | OECD 301B | 2 % | 28 day | | Experimentally | | |

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Parameter | Method | Value | Exposure time | Environment | Value determination | Result | Source |
|-----------|-----------|-------|---------------|-------------|---------------------|--------|--------|
| | OECD 301F | 9 % | 28 day | | Experimentally, GLP | | |

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Parameter | Method | Value | Exposure time | Environment | Value determination | Result | Source |
|-----------|----------|-------|---------------|-------------|---------------------|--------|--------|
| | OECD 306 | 74 % | 28 day | Salt water | Experimentally | | |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

| Parameter | Method | Value | Exposure time | Environment | Value determination | Result | Source |
|-----------|--------|-------|---------------|-------------|---------------------|--------|--------|
| | | 20 % | 28 day | | Literary studies | | |

Trimethoxyvinylsilane

| Parameter | Method | Value | Exposure time | Environment | Value determination | Result | Source |
|-----------|-----------|-------|---------------|-------------|----------------------|--------|----------------------|
| | OECD 301F | 51 % | 28 day | Freshwater | Experimentally, GLP | | |
| DT50 | | | 0,56 day | Atmosphere | Calculation of value | | 50000 OH-radical/cm3 |
| pH | | 7 | <2,4 hour | Freshwater | Based on evidence | | OECD 111 |

not available

12.3. Bioaccumulative potential

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] | Value determination | Source |
|-----------|----------|------------|---------------|--------------------------|-------------|------------------|---------------------|--------|
| BCF | OECD 305 | 24.3-437.1 | 60 day | Fishes (Cyprinus carpio) | | | Experimentally | |
| Log Kow | OECD 107 | 3.7 | | | | 23°C | Experimentally | |

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Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] | Value determination | Source |
|-----------|----------|-------|---------------|---------|-------------|------------------|---------------------|--------|
| Log Kow | OECD 117 | >6.5 | | | | 23°C | Experimentally | |
| Log Kow | | 4.2 | | | | 23°C | Experimentally | |

reaction mass of N, N'-ethane1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N, N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] | Value determination | Source |
|-----------|--------|-------|---------------|---------|-------------|------------------|---------------------|---------------|
| Log Kow | | >6 | | | | | Experimentally | EU Method A.8 |

Trimethoxyvinylsilane

| Parameter | Method | Value | Exposure time | Species | Environment | Temperature [°C] | Value determination | Source |
|-----------|--------|-------|---------------|---------|-------------|------------------|----------------------------|--------|
| Log Kow | | -2 | | | | 20°C | QSAR, Calculation of value | KOWWIN |

Not available.

12.4. Mobility in soil

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate

| Parameter | Value | Environment | Temperature | Value determination | Source |
|-----------|----------|-------------|-------------|----------------------|--------|
| Log Koc | 3.04-8.1 | | | Calculation of value | |

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

| Parameter | Value | Environment | Temperature | Value determination | Source |
|------------------|-------|-------------|-------------|----------------------|------------------|
| Mackay level III | 7.4 % | | | Calculation of value | Mackay level III |

Trimethoxyvinylsilane

| Parameter | Value | Environment | Temperature | Value determination | Source |
|-----------|-------|-------------|-------------|---------------------|----------------------|
| | | | 25°C | | 8,72.10-5 atm m3/mol |

Not available.

12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Not available.

SECTION 13: Disposal considerations

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13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances *

Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances *

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information**14.1. UN number or ID number**

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

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Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

Diocetylbis(pentane-2,4-dionato-O,O')tin

| Restriction | Conditions of restriction |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 20 | <p>1. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.</p> <p>2. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:</p> <ul style="list-style-type: none"> (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes; (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming; (c) any totally or partly submerged appliance or equipment. <p>3. Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.</p> <p>4. Tri-substituted organostannic compounds:</p> <ul style="list-style-type: none"> (a) Tri-substituted organostannic compounds such as tributyltin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin. (b) Articles not complying with point (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date. <p>5. Dibutyltin (DBT) compounds:</p> <ul style="list-style-type: none"> (a) Dibutyltin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the mixture or the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin. (b) Articles and mixtures not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date. (c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public: <ul style="list-style-type: none"> — one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives, — paints and coatings containing DBT compounds as catalysts when applied on articles, — soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, — fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor applications, — outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and façades, (d) By way of derogation, points (a) and (b) shall not apply to materials and articles regulated under Regulation (EC) No 1935/2004. <p>6. Diocetyltin (DOT) compound:</p> <ul style="list-style-type: none"> (a) Diocetyltin (DOT) compounds shall not be used after 1 January 2012 in the following articles for supply to, or use by, the general public, where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin: <ul style="list-style-type: none"> — textile articles intended to come into contact with the skin, — gloves, — footwear or part of footwear intended to come into contact with the skin, — wall and floor coverings, — childcare articles, — female hygiene products, — nappies, — two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits). (b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date. |

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hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics, Trimethoxyvinylsilane, Dioctylbis (pentane-2,4-dionato-O,O')tin

| Restriction | Conditions of restriction |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 03 | <p>1. Shall not be used in:</p> <ul style="list-style-type: none"> — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, <p>2. Articles not complying with paragraph 1 shall not be placed on the market.</p> <p>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:</p> <ul style="list-style-type: none"> — can be used as fuel in decorative oil lamps for supply to the general public, and — present an aspiration hazard and are labelled with H304. <p>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</p> <p>5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:</p> <p>(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";</p> <p>(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';</p> <p>(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p> |

Trimethoxyvinylsilane

| Restriction | Conditions of restriction |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40 | <p>1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:</p> <ul style="list-style-type: none"> — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopie" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. <p>2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:</p> <p>"For professional users only".</p> <p>3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC (**).</p> <p>4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</p> |

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15.2. Chemical safety assessment

not available

SECTION 16: Other information**A list of standard risk phrases used in the safety data sheet**

| | |
|------|--------------------------------------------------------------------|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H332 | Harmful if inhaled. |
| H371 | May cause damage to organs. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Guidelines for safe handling used in the safety data sheet

| | |
|------|--------------------------------------------------------------------------------------------------------------------------------|
| P273 | Avoid release to the environment. |
| P501 | Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier. |

Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet

| | |
|---------------------|---------------------------------------------------------------------------------------------------|
| ADR | European agreement concerning the international carriage of dangerous goods by road |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures |
| DNEL | Derived no-effect level |
| EC ₅₀ | Concentration of a substance when it is affected 50% of the population |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EmS | Emergency plan |
| ES | Identification code for each substance listed in EINECS |
| EU | European Union |
| EuPCS | European Product Categorisation System |
| IATA | International Air Transport Association |
| IBC | International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals |
| IC ₅₀ | Concentration causing 50% blockade |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| INCI | International Nomenclature of Cosmetic Ingredients |
| ISO | International Organization for Standardization |
| IUPAC | International Union of Pure and Applied Chemistry |
| LC ₅₀ | Lethal concentration of a substance in which it can be expected death of 50% of the population |
| LD ₅₀ | Lethal dose of a substance in which it can be expected death of 50% of the population |
| LOAEC | Lowest observed adverse effect concentration |
| LOAEL | Lowest observed adverse effect level |
| log K _{ow} | Octanol-water partition coefficient |
| MARPOL | International Convention for the Prevention of Pollution from Ships |
| NOAEC | No observed adverse effect concentration |
| NOAEL | No observed adverse effect level |

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

AUTOSEAL

Creation date

21st November 2022

Revision date

Version

2.0

| | |
|-----------------|---------------------------------------------------------------------------------------------------|
| NOEC | No observed effect concentration |
| NOEL | No observed effect level |
| OEL | Occupational Exposure Limits |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted no-effect concentration |
| ppm | Parts per million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Agreement on the transport of dangerous goods by rail |
| UN | Four-figure identification number of the substance or article taken from the UN Model Regulations |
| UVCB | Substances of unknown or variable composition, complex reaction products or biological materials |
| VOC | Volatile organic compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| Acute Tox. | Acute toxicity |
| Aquatic Chronic | Hazardous to the aquatic environment (chronic) |
| Asp. Tox. | Aspiration hazard |
| Flam. Liq. | Flammable liquid |
| Skin Sens. | Skin sensitization |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |

Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use

not available

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The version 2.0 replaces the SDS version from 19 December 2017. Changes were made in sections 3, 8, 11, 12, 13, 15 and 16.

Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.