

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 3/02/2021 Version: 1.0

issue date. 5/02/2021 Version. 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Parasilico Prestige Matt

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

1.2.1. Relevant identified uses

Main use category : Professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

DL CHEMICALS
Roterijstraat 201-203
B-8793 Waregem - Belgium
T + 32 56 62 70 51 - F + 32 56 60 95 68
MSDS@dl-chem.com - www.dl-chem.com

1.4. Emergency telephone number

Emergency number : + 32 56 62 70 51

Only available during office hours.

| Country | Official advisory body | Address | Emergency number | Comment |
|-------------------|--|---------------------------------|------------------|---------|
| United Kingdom | Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road SE14 5ER London | +44 20 7188 7188 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements : EUH208 - Contains N-(2-aminoethyl)-N'-[3-

(trimethoxysilyl)propyl]ethylenediamine, Methyl tris-(methyl ethyl ketoximo) silane, Tetrakis(methylethylketoximino)silane. May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed.

Do not breathe spray or mist.

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|--|
| Benzene, C14-30-alkyl derivs | (CAS-No.) 68855-24-3 (EC-No.) 272-472-8 | 5 - 10 | Aquatic Chronic 4, H413 |
| hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromatic | (EC-No.) 919-857-5 (REACH-no) 01-2119463258-33 | 5 - 10 | Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 |
| Methyl tris-(methyl ethyl ketoximo) silane | (CAS-No.) 22984-54-9 (EC-No.) 245-366-4 (REACH-no) 01-2119987100-43 | 1 - 5 | Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373 |
| Titanium dioxide substance with national workplace exposure limit(s) (GB) (Note W)(Note 10) | (CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (EC Index-No.) 022-006-002 (REACH-no) 01-2119489379-17 | 1 - 2,5 | Carc. 2, H351 |
| N-(2-aminoethyl)-N'-[3- (trimethoxysilyl)propyl]ethylenediamine | (CAS-No.) 35141-30-1 (EC-No.) 252-390-9 | 0,1 - 1 | Eye Dam. 1, H318 Skin Sens. 1, H317 |
| Tetrakis(methylethylketoximino)silane | (CAS-No.) 34206-40-1 (EC-No.) 251-882-0 (REACH-no) 01-2119982966-14 | < 1 | Flam. Sol. 1, H228 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT RE 2, H373 |

Specific concentration limits:

| 1 | Name | Product identifier | Specific concentration limits |
|---|--|---|--------------------------------------|
| ١ | Methyl tris-(methyl ethyl ketoximo) silane | (CAS-No.) 22984-54-9 (EC-No.) 245-366-4 (REACH-no) 01-2119987100-43 | (3,755 ≤C < 100) Skin Sens. 1, H317 |

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 \leq 10 μ m.

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. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air.

First-aid measures after skin contact : After contact with skin, wash immediately and thoroughly with water and soap.

First-aid measures after eye contact : Rinse immediately with plenty of water. Seek medical attention if ill effect or

irritation develops.

First-aid measures after ingestion : Rinse mouth.

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

Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Not expected to present a significant skin hazard under anticipated conditions of

normal use.

: Direct contact with the eyes is likely slightly irritating.

Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions

: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

11. Toxicological information.

Symptoms/effects after eye contact

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : No direct explosion hazard.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Evacuate unnecessary personnel.

Do not breathe fumes from fires or vapours from decomposition.

Firefighting instructions : Cool down the containers exposed to heat with a water spray.

Protection during firefighting : Wear a self contained breathing apparatus.

Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : [In case of inadequate ventilation] wear respiratory protection.

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see item 8.

Emergency procedures : Ventilate area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Recover the cleaning water for later disposal. Ventilate area.

6.2. Environmental precautions

Do not dispose of waste into sewer. Disposal must be done according to official regulations.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

Concerning disposal elimination after cleaning, see section 13. Concerning personal protective equipment to use, see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling temperature : $5 - 40 \, ^{\circ}\text{C}$

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating,

drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, well-ventilated area.

Maximum storage period : 12 months Storage temperature : 5 - 25 °C

7.3. Specific end use(s)

Adhesives, sealants.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Titanium dioxide (13463-67-7) | | |
|-------------------------------|-----------------------|--|
| United Kingdom | WEL TWA (OEL TWA) [1] | 10 mg/m³ inhalable dust 4 mg/m³ respirable dust |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

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Time of penetration is to be checked with the glove producer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-------------------|----------------------|------------|----------------|-------------|------------|
| Disposable gloves | Nitrile rubber (NBR) | | > 0,1 | | EN ISO 374 |

Eye protection:

Avoid contact with eyes. Use splash goggles when eye contact due to splashing is possible

| Туре | Field of application | Characteristics | Standard |
|----------------|----------------------|-------------------|----------|
| Safety glasses | Droplet | With side shields | EN 166 |

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

| Device | Filter type | Condition | Standard |
|----------|-------------|--|----------|
| Gas mask | ABEK | If conc. in air > exposure limit, Long term exposure | |







Consumer exposure controls:

Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Wash hands and other exposed areas with soap and water before leaving work.

Other information:

Do not eat, drink or smoke during use. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Physical state : Liquid

Colour : According to product specification.

Odour : No data available
Odour threshold : No data available
pH : No data available
Relative evaporation rate : No data available

(butylacetate=1) Melting point : No data available : No data available Freezing point Boiling point : No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available : No data available Relative vapour density at 20 °C Relative density : No data available

Density : 1,2 g/ml

Solubility : insoluble in water.

Partition coefficient n-octanol/water (Log : No data available

Pow)

Viscosity, kinematic : No data available

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Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

None under normal use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Titanium dioxide (13463-67-7) | |
|-----------------------------------|--|
| LD50 oral rat | > 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
| LD50 dermal rat | > 10000 mg/kg |
| LD50 dermal rabbit | > 10000 mg/kg |
| LC50 Inhalation - Rat | > 6,82 mg/l |
| LC50 Inhalation - Rat (Dust/Mist) | > 6.82 mg/l/4h |

| Benzene, C14-30-alkyl derivs (68855-24-3) | |
|---|--------------|
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rabbit | > 3000 mg/kg |

| N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1) | | |
|---|--------------|--|
| LD50 oral rat | > 2000 mg/kg | |
| LD50 dermal rat | > 2000 mg/kg | |
| LC50 Inhalation - Rat (Dust/Mist) | 1,49 mg/l/4h | |

| Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9) | |
|---|--|
| LD50 oral rat | 2463 mg/kg (OECD 401 method) |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| Tetrakis(methylethylketoximino)silane (34206-40-1) | | |
|--|--|--|
| LD50 oral rat | 2282,81 mg/kg (OECD 401 method) | |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) | |

| hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromatic | | |
|---|--------------------------------|--|
| LD50 oral rat | > 5000 mg/kg (OECD 401 method) | |
| LD50 dermal rabbit | > 5000 mg/kg (OECD 402 method) | |
| LC50 Inhalation - Rat | > 5000 mg/m³ (OECD 403 method) | |

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Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified : Not classified Respiratory or skin sensitisation Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

| Tetrakis(methylethylketoximino)silane (34206-40-1) | | |
|--|---|--|
| NOAEL (chronic, oral, animal/male, 2 years) | > 641,43 mg/kg bodyweight (OECD 414 method) | |
| NOAEL (chronic, oral, animal/female, 2 years) | > 213,81 mg/kg bodyweight (OECD 416 method) | |

Reproductive toxicity : Not classified

| Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9) | | |
|---|-------------------------------|--|
| NOAEL (animal/male, F0/P) | ≥ 250 mg/kg (OECD 422 method) | |
| NOAEL (animal/female, F0/P) | ≥ 250 mg/kg (OECD 422 method) | |

STOT-single exposure : Not classified STOT-repeated exposure : Not classified

| N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1) | | |
|---|--|--|
| NOAEL (oral, rat, 90 days) | 500 mg/kg bodyweight/day | |
| Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9) | | |
| LOAEL (oral, rat, 90 days) | 50 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) | |
| NOAEL (oral, rat, 90 days) | 10 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) | |
| NOAEL (subacute, oral, animal/male, 28 days) | 10 mg/kg bodyweight (OECD 422 method) | |

| Tetrakis(methylethylketoximino)silane (34206-40-1) | | |
|--|--|--|
| NOAEL (subchronic, oral, animal/female, 90 days) | 26,73 mg/kg bodyweight (OECD 408 method) | |

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment,

short-term (acute)

: Not classified

Hazardous to the aquatic environment,

: Not classified

long-term (chronic)

| Titanium dioxide (13463-67-7) | |
|------------------------------------|--|
| LC50 - Fish [1] | 155 mg/l Test organisms (species): other:Japanese Medaka |
| LC50 - Fish [2] | > 10000 mg/l |
| EC50 - Crustacea [1] | 19,3 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | 27,8 mg/l Test organisms (species): Daphnia magna |
| EC50 - Other aquatic organisms [1] | > 1000 mg/l |
| EC50 - Other aquatic organisms [2] | 61 mg/l |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | > 100 mg/l pseudokirchneriella subcapitata |
| NOEC (chronic) | ≥ 2,92 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
| NOEC chronic algae | 5600 mg/l |

| N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine (35141-30-1) | | |
|---|-----------------------------|--|
| LC50 - Fish [1] | 597 (OECD 203 method) | |
| EC50 - Crustacea [1] | 81 mg/l (OECD 202 method) | |
| EC50 72h - Algae [1] | 126 mg/l Test method EU C.3 | |

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| | ilyl)propyl]ethylenediamine (35141-30-1) | | |
|--|---|--|--|
| NOEC chronic crustacea | > 1 mg/l (OECD 211 method) | | |
| Methyl tris-(methyl ethyl ketoximo) si | | | |
| LC50 - Fish [1] | > 120 mg/l Oncorhynchus mykiss (Rainbow trout) | | |
| LC50 - Fish [2] | 972,34 mg/l (OECD 203 method) | | |
| EC50 - Crustacea [1] | > 120 mg/l Test organisms (species): Daphnia magna | | |
| EC50 72h - Algae [1] | 94 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) | | |
| EC50 72h - Algae [2] | 50 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) | | |
| ErC50 algae | 72h 94 mg/l Pseudokirchneriella subcapitata | | |
| LOEC (chronic) | > 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' | | |
| NOEC (acute) | 57,67 mg/l (OECD 204 method) | | |
| NOEC (chronic) | ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' | | |
| NOEC chronic fish | ≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d' | | |
| Tetrakis(methylethylketoximino)silan | | | |
| | | | |
| LC50 - Fish [1] | 901,2 mg/l (OECD 203 method) | | |
| EC50 - Crustacea [1] | 201 mg/l Test organisms (species): Daphnia magna | | |
| EC50 - Other aquatic organisms [1] | 214,88 mg/l Test organisms (species): | | |
| EC50 72h - Algae [1] | 17,1 mg/l (OECD 201 method) | | |
| NOEC (acute) | 14d 53,45 mg/l (OECD 204 method) | | |
| NOEC (chronic) | 21d ≥ 106,9 mg/l (OECD 211 method) | | |
| hydrocarbons, C9-C11, n-alkanes, iso- | -alkanes, cyclic, < 2% aromatic | | |
| LC50 - Fish [1] | > 1000 mg/l | | |
| EC50 - Crustacea [1] | 1000 mg/l | | |
| ErC50 algae | > 1000 mg/l | | |
| NOEC chronic algae | 100 mg/l | | |
| Titanium dioxide (13463-67-7) Persistence and degradability | Not readily biodegradable. | | |
| | · | | |
| Methyl tris-(methyl ethyl ketoximo) s | ilane (22984-54-9) | | |
| Methyl tris-(methyl ethyl ketoximo) s Biodegradation | ilane (22984-54-9) 28d 0 % (OECD 301A method) | | |
| , , , , , | 28d 0 % (OECD 301A method) | | |
| Biodegradation | 28d 0 % (OECD 301A method) | | |
| Biodegradation Tetrakis(methylethylketoximino)silan | 28d 0 % (OECD 301A method) e (34206-40-1) | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) alkanes, cyclic, < 2% aromatic | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) alkanes, cyclic, < 2% aromatic | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation 12.3. Bioaccumulative potential | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Methyl tris-(methyl ethyl ketoximo) si | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % | | |
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| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % illane (22984-54-9) 9,83 | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log Pow) | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % illane (22984-54-9) 9,83 | | |
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| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Methyl tris-(methyl ethyl ketoximo) silon Partition coefficient n-octanol/water (Log Pow) Tetrakis(methylethylketoximino)silan Partition coefficient n-octanol/water (Log Pow) 12.4. Mobility in soil Methyl tris-(methyl ethyl ketoximo) silon Partition coefficient n-octanol/water (Log Pow) | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % ilane (22984-54-9) 9,83 e (34206-40-1) 9,83 ilane (22984-54-9) 5,481 EPA (Environmental Protection Agency) | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log Pow) Tetrakis(methylethylketoximino)silan Partition coefficient n-octanol/water (Log Pow) 12.4. Mobility in soil Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % ilane (22984-54-9) 9,83 e (34206-40-1) 9,83 ilane (22984-54-9) 5,481 EPA (Environmental Protection Agency) | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation 12.3. Bioaccumulative potential Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log Pow) Tetrakis(methylethylketoximino)silan Partition coefficient n-octanol/water (Log Pow) 12.4. Mobility in soil Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log Koc) Tetrakis(methylethylketoximino)silan Partition coefficient n-octanol/water (Log Koc) | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % illane (22984-54-9) 9,83 e (34206-40-1) 9,83 illane (22984-54-9) 5,481 EPA (Environmental Protection Agency) | | |
| Biodegradation Tetrakis(methylethylketoximino)silan Persistence and degradability Biodegradation hydrocarbons, C9-C11, n-alkanes, iso- Persistence and degradability Biodegradation L2.3. Bioaccumulative potential Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log Pow) Tetrakis(methylethylketoximino)silan Partition coefficient n-octanol/water (Log Pow) L2.4. Mobility in soil Methyl tris-(methyl ethyl ketoximo) si Partition coefficient n-octanol/water (Log Koc) Tetrakis(methylethylketoximino)silan Partition coefficient n-octanol/water (Log Koc) | 28d 0 % (OECD 301A method) e (34206-40-1) Not readily biodegradable. 28d 20 % (OECD 301C method) -alkanes, cyclic, < 2% aromatic Readily biodegradable, according to appropriate OECD test. 28d 80 % illane (22984-54-9) 9,83 e (34206-40-1) 9,83 illane (22984-54-9) 5,481 EPA (Environmental Protection Agency) | | |

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12.5. Results of PBT and vPvB assessment

| Component | |
|--|--|
| hydrocarbons, C9-C11, n-alkanes, iso- alkanes, cyclic, < 2% aromatic | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Methyl tris-(methyl ethyl ketoximo) silane (22984-54-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| N-(2-aminoethyl)-N'-[3- (trimethoxysilyl)propyl]ethylenediamine (35141-30-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

- : Disposal must be done according to official regulations.
- European List of Waste (LoW) code
- : 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|--|--|------------------------------------|------------------------------------|------------------------------------|
| 14.1. UN number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper sl | hipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport ha | azard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing grou | ир | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environment | tal hazards | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | | | |
|--|---|--|--|
| 3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F | Silicic acid, tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane; methanol; octamethylcyclotetrasiloxane; vinyltrimethoxysilane; tetramethyl orthosilicate; hydrocarbons, C9-C11, nalkanes, iso-alkanes, cyclic, < 2% aromatic | | |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | octhilinone (ISO); 2-octyl-2H-isothiazol-3-one; Silicic acid, tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane; methanol; N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine; Methyl tris-(methyl ethyl ketoximo) silane; 2-butanone oxime; ethyl methyl ketoxime; ethyl methyl ketone oxime; 2-Pentanone, O,O',O''-(methylsilylidyne)trioxime; octamethylcyclotetrasiloxane; vinyltrimethoxysilane; tetramethyl orthosilicate; hydrocarbons, C9-C11, n-alkanes, iso-alkanes, cyclic, < 2% aromatic | | |
| 3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 | octhilinone (ISO); 2-octyl-2H-isothiazol-3- one; Benzene, C14-30-alkyl derivs; 2- Pentanonoxim; octamethylcyclotetrasiloxane | | |
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | Silicic acid, tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane; methanol; Tetrakis(methylethylketoximino)silane; octamethylcyclotetrasiloxane; vinyltrimethoxysilane; tetramethyl orthosilicate; hydrocarbons, C9-C11, nalkanes, iso-alkanes, cyclic, < 2% aromatic | | |
| 69. Methanol | methanol | | |
| 70. Octamethylcyclotetrasiloxane (D4); Decamethylcyclopentasiloxane (D5) | octamethylcyclotetrasiloxane; decamethylcyclopentasiloxaan | | |

Contains no substance on the REACH candidate list \geq 0,1 % / SCL

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

| CAS-No. | Chemical Abstract Service number | |
|---------|---|--|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways | |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road | |
| ATE | Acute Toxicity Estimate | |
| BCF | Bioconcentration factor | |
| BOD | Biochemical oxygen demand (BOD) | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |

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| COD | Chemical oxygen demand (COD) | |
|--------|---|--|
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC50 | Median effective concentration | |
| EN | European Standard | |
| EC-No. | European Community number | |
| IATA | International Air Transport Association | |
| IMDG | International Maritime Dangerous Goods | |
| IOELV | Indicative Occupational Exposure Limit Value | |
| LC50 | Median lethal concentration | |
| LD50 | Median lethal dose | |
| LOAEL | Lowest Observed Adverse Effect Level | |
| NOAEC | No-Observed Adverse Effect Concentration | |
| NOAEL | No-Observed Adverse Effect Level | |
| NOEC | No-Observed Effect Concentration | |
| OECD | Organisation for Economic Co-operation and Development | |
| OEL | Occupational Exposure Limit | |
| PBT | Persistent Bioaccumulative Toxic | |
| PNEC | Predicted No-Effect Concentration | |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 | |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail | |
| SDS | Safety Data Sheet | |
| vPvB | Very Persistent and Very Bioaccumulative | |

Data sources

: ECHA (European Chemicals Agency). REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 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. Supplier's safety documents.

Training advice

: Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:

| Aquatic Chronic 4 | Hazardous to the aquatic environment — Chronic Hazard, Category 4 |
|-------------------|---|
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Flam. Sol. 1 | Flammable solids, Category 1 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| EUH208 | Contains N-(2-aminoethyl)-N'-[3-(trimethoxysilyl)propyl]ethylenediamine, Methyl tris-(methyl ethyl ketoximo) silane, Tetrakis(methylethylketoximino)silane. May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request. |
| EUH211 | Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. |

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MSDS Reach Annex II DL-Chem

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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