# SAFETY DATA SHEET

# TEC7

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

| | |
|---|---|
| Date issued | 03.05.2013 |
| Revision date | 22.04.2025 |

### 1.1. Product identifier

| | |
|---|---|
| Product name | TEC7 |
| Article no. | T535516, T535506, T535406, T535876, T535706, T535105, T535205, T535206, T535306, T535576, T535106, T535188, T535288, T535388 |

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

| | |
|---|---|
| Use of the substance / mixture | Sealant. |

### 1.3. Details of the supplier of the safety data sheet

**Downstream user**

| | |
|---|---|
| Company name | Relekta AS |
| Office address | Innspurten 1A |
| Postal address | Postboks 6169 Etterstad |
| Postcode | 0663 |
| City | Oslo |
| Country | Norway |
| Telephone number | +47 22 66 04 00 |
| Fax | +47 22 66 04 01 |
| Email | post@relekta.no |
| Website | www.relekta.no |
| Enterprise No. | NO 831 881 372 |

### 1.4. Emergency telephone number

| | |
|---|---|
| Emergency telephone | Telephone number: +47 22 59 13 00<br>Description: Norwegian Poison Information Center<br><br>Telephone number: 112 |

| | |
|---|---|
| | Description: Within Sweden: Ask for Poison Information |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

| | |
|---|---|
| CLP classification, notes | Classification according to (EC) No.1272/2008: Not classified. |

### 2.2. Label elements

| | |
|---|---|
| Supplemental label information | EUH 208 Contains Trimethoxyvinylsilane, N-(3-(trimethoxysilyl)propyl)ethylenediamine. May produce an allergic reaction. |

### 2.3. Other hazards

| | |
|---|---|
| PBT / vPvB | The chemical contains no PBT or vPvB substances. |
| Other hazards | None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list. |

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

| Substance | Identification | Classification | Contents | Notes |
|---|---|---|---|---|
| Trimethoxyvinylsilane | CAS No.: 2768-02-7<br>EC No.: 220-449-8 | Flam. Liq. 3; H226<br>Skin Sens. 1B; H317 | > 0,1 < 1 % | |
| N-(3-(trimethoxysilyl) propyl) ethylenediamine | CAS No.: 1760-24-3<br>EC No.: 217-164-6<br>REACH Reg. No.: 01-2119970215-39 | Skin Sens. 1B; H317<br>Eye Dam. 1; H318<br>STOT SE 3; H335 | > 0,1 < 1 % | |
| Substance comments | For substances without REACH registration number, no information has been provided by the subcontractor or manufacturer.<br>See section 16 for explanation of hazard statements (H) listed above. | | | |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

| | |
|---|---|
| General | Emergency telephone number: see section 1.4. |
| Inhalation | Fresh air and rest. Get medical attention if any discomfort continues. |
| Skin contact | Remove contaminated clothing. Flush skin thoroughly with water. Consult a doctor if symptoms should occur. |
| Eye contact | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. By prolonged rinsing, use luke warm water to avoid damage to the eye. Contact physician if discomfort continues. |
| Ingestion | Rinse mouth thoroughly. Do not induce vomiting. Get medical attention if any discomfort continues. |

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

| | |
|---|---|
| Acute symptoms and effects | Skin contact: The chemical contains small amount of allergy-causing material which may give rise to allergy to sensitive persons. Allergic skin reactions: symptoms may include redness, swelling, blistering and itching. |

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

| | |
|---|---|
| Other information | Treat symptomatically. No specific information from the manufacturer. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | |
|---|---|
| Suitable extinguishing media | ABC-powder. Class B foam. Water spray. Carbon dioxide ($CO_2$). |
| Improper extinguishing media | Do not use water jet. |

### 5.2. Special hazards arising from the substance or mixture

| | |
|---|---|
| Fire and explosion hazards | The chemical is not classified as flammable. |
| Hazardous combustion products | May include, but is not limited to: Carbon monoxide (CO). Carbon dioxide ($CO_2$). |

### 5.3. Advice for firefighters

| | |
|---|---|
| Personal protective equipment | Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8. |
| Other information | Containers close to fire should be removed immediately or cooled with water. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| Personal protection measures | Ensure adequate ventilation. Use protective equipment as referred to in section 8. Avoid contact with skin and eyes. |

### 6.2. Environmental precautions

| | |
|---|---|
| Environmental precautionary measures | Do not allow to enter into sewer, water system or soil. |

### 6.3. Methods and material for containment and cleaning up

| | |
|---|---|
| Clean up | Scrape up spillage or absorb with absorbing material. Collect in suitable containers and deliver as waste according to section 13.<br>Wash the contaminated surface with water. |

### 6.4. Reference to other sections

| | |
|---|---|
| Other instructions | See also sections 8 and 13. |

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | |
|---|---|
| Handling | Provide adequate ventilation. Use protective equipment as referred to in section |

| | |
|---|---|
| | 8.<br>Observe good chemical hygiene practices.<br>Avoid contact with eyes and skin. |

### Protective safety measures

| | |
|---|---|
| Safety measures to prevent fire | Keep away from heat / sparks / open flames / hot surfaces. — No smoking. |
| Advice on general occupational hygiene | Do not eat, drink or smoke during work. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. |

## 7.2. Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Storage | Store in tightly closed original container in a dry, cool and well-ventilated place. |
| Conditions to avoid | Avoid heat, flames and other sources of ignition. |

### Conditions for safe storage

| | |
|---|---|
| Packaging compatibilities | Store in original container. |
| Advice on storage compatability | Keep away from food and drink. |

## 7.3. Specific end use(s)

| | |
|---|---|
| Specific use(s) | See section 1.2. |

# SECTION 8: Exposure controls / personal protection

## 8.1. Control parameters

| | |
|---|---|
| Control parameters comments | Contains no substances with occupational exposure limit values.<br>References (laws/regulations): Norwegian regulation on exposure limits: FOR 2011-12-06 nr. 1358 Forskrift om tiltaks- og grenseverdier (sist endret gjennom FOR-2024-05-15-785).<br>Swedish regulation on exposure limits: Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden, "Hygieniska gränsvärden", AFS 2018:1 |

### DNEL / PNEC

| | |
|---|---|
| DNEL | Group: Professional<br>Route of exposure: Long-term inhalation (systemic)<br>Value: 27,6 mg/m³<br>Comments: Applies to CAS 2768-02-7.<br><br>Group: Professional<br>Route of exposure: Acute inhalation (systemic)<br>Value: 73,6 mg/m³<br>Comments: Applies to CAS 2768-02-7.<br><br>Group: Professional<br>Route of exposure: Long-term dermal (systemic)<br>Value: 0,91 mg/kg bw/day<br>Comments: Applies to CAS 2768-02-7. |

| | |
|---|---|
| | Group: Consumer<br>Route of exposure: Long-term inhalation (systemic)<br>Value: 6,8 mg/m³<br>Comments: Applies to CAS 2768-02-7.<br><br>Group: Consumer<br>Route of exposure: Acute inhalation (systemic)<br>Value: 54,4 mg/m³<br>Comments: Applies to CAS 2768-02-7.<br><br>Group: Consumer<br>Route of exposure: Long-term dermal (systemic)<br>Value: 0,63 mg/kg bw/day<br>Comments: Applies to CAS 2768-02-7.<br><br>Group: Consumer<br>Route of exposure: Long-term oral (systemic)<br>Value: 0,63 mg/kg bw/day<br>Comments: Applies to CAS-nr.: 2768-02-7.<br><br>Group: Professional<br>Route of exposure: Long-term inhalation (systemic)<br>Value: 130 mg/m³<br>Comments: Applies to CAS 1760-24-3.<br><br>Group: Consumer<br>Route of exposure: Long-term inhalation (systemic)<br>Value: 26 mg/m³<br>Comments: Applies to CAS 1760-24-3.<br><br>Group: Consumer<br>Route of exposure: Acute inhalation (systemic)<br>Value: 26400 mg/m³<br>Comments: Applies to CAS 1760-24-3.<br><br>Group: Consumer<br>Route of exposure: Long-term oral (systemic)<br>Value: 4 mg/kg bw/day<br>Comments: Applies to CAS 1760-24-3. |
| PNEC | Route of exposure: Freshwater<br>Value: 0,05 mg/l<br>Comments: Applies to CAS 1760-24-3.<br><br>Route of exposure: Saltwater<br>Value: 0,005 mg/l<br>Comments: Applies to CAS 1760-24-3.<br><br>Route of exposure: Freshwater<br>Value: 0,072 mg/l<br>Comments: Intermittent release. Applies to CAS 1760-24-3.<br><br>Route of exposure: Sewage treatment plant STP<br>Value: 20 mg/l<br>Comments: Applies to CAS 1760-24-3. |

| | |
|---|---|
| | Route of exposure: Freshwater sediments<br>Value: 0,181 mg/kg dw<br>Comments: Applies to CAS 1760-24-3.<br><br>Route of exposure: Saltwater sediments<br>Value: 0,0181 mg/kg dw<br>Comments: Applies to CAS 1760-24-3.<br><br>Route of exposure: Soil<br>Value: 0,007 mg/kg dw<br>Comments: Applies to CAS 1760-24-3. |

## 8.2. Exposure controls

### Precautionary measures to prevent exposure

| | |
|---|---|
| Technical measures to prevent exposure | Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.<br>A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application. |

### Eye / face protection

| | |
|---|---|
| Eye protection equipment | Description: At risk of eye contact: Wear tight-fitting goggles or face shield.<br>Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements). |
| Additional eye protection measures | Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit. |

### Hand protection

| | |
|---|---|
| Suitable gloves type | Nitrile. Rubber (natural, latex). Polyvinyl alcohol (PVA). |
| Breakthrough time | Comments: No specific information from the manufacturer. |
| Thickness of glove material | Comments: No specific information from the manufacturer. |
| Hand protection equipment | Description: Use protective gloves that are suitable for the application.<br>The recommended material of gloves is recommended after a study of the single components in the chemical. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove.<br>The gloves abilities may vary among the different glove manufacturers.<br>Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (Protective gloves - General requirements and test methods). |
| Additional hand protection measures | Replace gloves if signs of wear and tear. Gloves must only be worn on clean, dry hands. |

### Skin protection

| | |
|---|---|
| Recommended protective clothing | Description: Wear appropriate protective clothing to protect against skin contact. |
| Additional skin protection measures | Emergency shower should be available at the workplace. |

### Respiratory protection

| | |
|---|---|
| Recommended respiratory protection | Description: Normally not required. |

### Appropriate environmental exposure control

| | |
|---|---|
| Environmental exposure controls | Do not allow to enter into sewer, water system or soil. |

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | Paste. |
| Colour | Not determined. |
| Odour | Not determined. |
| pH | Comments: Not relevant. |
| Melting point / melting range | Comments: Not determined. |
| Boiling point / boiling range | Comments: Not determined. |
| Flash point | Comments: Not determined. |
| Flammability | Not combustible. |
| Explosion limit | Comments: Not determined. |
| Vapour pressure | Comments: Not relevant. |
| Vapour density | Comments: Not relevant. |
| Particle characteristics | Comments: Not determined. |
| Relative density | Comments: Not determined. |
| Density | Comments: Not determined. |
| Solubility | Comments: Not determined. |
| Partition coefficient: n-octanol/ water | Comments: Not relevant for a mixture. |
| Auto-ignition temperature | Comments: Not determined. |
| Decomposition temperature | Comments: Not determined. |
| Viscosity | Comments: Not determined. |

### 9.2. Other information

### Physical hazards

| | |
|---|---|
| Content of VOC | Value: < 2 % |

### 9.2.2. Other safety characteristics

| | |
|---|---|
| Comments | No further information is available. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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|---|---|
| Reactivity | Heating may cause a fire. |

### 10.2. Chemical stability

| | |
|---|---|
| Stability | The chemical is stable under normal conditions of storage and use. |

### 10.3. Possibility of hazardous reactions

| | |
|---|---|
| Possibility of hazardous reactions | Not specified by the manufacturer. |

### 10.4. Conditions to avoid

| | |
|---|---|
| Conditions to avoid | Avoid heat, flames and other sources of ignition. |

### 10.5. Incompatible materials

| | |
|---|---|
| Materials to avoid | Not specified by the manufacturer. |

### 10.6. Hazardous decomposition products

| | |
|---|---|
| Hazardous decomposition products | None under normal conditions. See also section 5.2. |

## SECTION 11: Toxicological information

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

| | |
|---|---|
| Acute toxicity | Effect tested: LD50<br>Route of exposure: Oral<br>Method: OECD 401<br>Value: 6899 - 7012 mg/kg bw<br>Species: Rat<br>Gender: Male/Female<br>Comments: Applies to CAS 2768-02-7.<br><br>Effect tested: LD50<br>Route of exposure: Dermal<br>Method: OECD 402<br>Duration: 24 hour(s)<br>Value: 3158 - 3760 mg/kg bw<br>Species: Rabbit<br>Gender: Male/Female<br>Comments: Applies to CAS 2768-02-7.<br><br>Effect tested: LC50<br>Route of exposure: Inhalation (vapour)<br>Method: OECD 403 |

| | |
|---|---|
| | Duration: 4 hour(s)<br>Value: 16,8 mg/l<br>Species: Rat<br>Gender: Male/Female<br>Comments: Applies to CAS 2768-02-7.<br><br>Effect tested: LD50<br>Route of exposure: Oral<br>Method: EPA OPPTS 870.1100<br>Value: 2295 mg/kg bw<br>Species: Rat<br>Gender: Male/Female<br>Comments: Applies to CAS 1760-24-3.<br><br>Effect tested: LD50<br>Route of exposure: Dermal<br>Method: EPA OPPTS 870.1200<br>Duration: 24 hour(s)<br>Value: > 2000 mg/kg bw<br>Species: Rabbit<br>Gender: Male/Female<br>Comments: Applies to CAS 1760-24-3.<br><br>Effect tested: LC50<br>Route of exposure: Inhalation. (mist)<br>Method: EPA OPPTS 870.1300<br>Duration: 4 hour(s)<br>Value: 1,49 - 2,44 mg/l<br>Species: Rat<br>Gender: Male/Female<br>Comments: Applies to CAS 1760-24-3. |

## Other information regarding health hazards

| | |
|---|---|
| Assessment of acute toxicity, classification | Based on available data, the classification criteria are not met. |
| Assessment of skin corrosion / irritation, classification | Based on available data, the classification criteria are not met. |
| Assessment of eye damage or irritation, classification | Based on available data, the classification criteria are not met. |
| Assessment of respiratory sensitisation, classification | Based on available data, the classification criteria are not met. |
| Assessment of skin sensitisation, classification | Based on available data, the classification criteria are not met.<br>The chemical contains small amount of allergy-causing material which may give rise to allergy to sensitive persons. |
| General | Corrosion/irritation;<br>Trimethoxyvinylsilane (CAS 2768-02-7)<br>Route of exposure\|Result\|Method\|Exposure time\|Time point\|Species\|Value determination\|Remark<br>Eye\|Not irritating\|OECD 405\|24 h\|1; 24; 48; 72 hours\|Rabbit\|Experimental value\|Single treatment with rinsing<br>Skin\|Not irritating\|\|24 h\|24; 48; 72 hours\|Rabbit\|Experimental value\| |

N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)
Route of exposure|Result|Method|Exposure time|Time point|Species|Value determination|Remark
Eye|Serious eye damage|OECD 405||24; 48; 72 hours|Rabbit|Experimental value|Single treatment without rinsing
Skin|Slightly irritating|EPA OPPTS 870.2500|4 h|24; 48; 72 hours|Rabbit|Experimental value|
Inhalation|Irritating; STOT SE cat.3|||||Literature study|

Respiratory or skin sensitisation;
Trimethoxyvinylsilane (CAS 2768-02-7)
Route of exposure|Result|Method|Exposure time|Observation time point|Species|Value determination|Remark
Skin|Sensitizing|OECD 406|||Guinea pig (female)|Experimental value|

N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)
Route of exposure|Result|Method|Exposure time|Observation time point|Species|Value determination|Remark
Skin|Sensitizing|OECD 406|||Guinea pig (male/ female)|Experimental value|

Specific target organ toxicity;
Trimethoxyvinylsilane (CAS 2768-02-7)
Route of exposure|Parameter|Method|Value|Organ/Effect|Exposure time|Species|Value determination|Remark
Oral (stomach tube)|NOAEL|OECD 422|62.5 mg/kg bw/day|No effect|7 weeks (daily)|Rat (male / female)|Experimental value|
Oral (stomach tube)|LOAEL|OECD 422|250 mg/kg bw/day|Bladder (histopatholo gical changes)|7 weeks (daily)|Rat (male / female)|Experimental value|
Inhalation (vapours)|NOAEC|Subchronic toxicity test|100 ppm|No effect|14 weeks (6h / day, 5 days / week)|Rat (male / female)|Experimental value|
Inhalation (vapours)|Dose level|Subchronic toxicity test|400 ppm|Bladder (histopatholo gical changes)|14 weeks (6h / day, 5 days / week)|Rat (male / female)|Experimental value|

N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)
Route of exposure|Parameter|Method|Value|Organ/Effect|Exposure time|Species|Value determination|Remark
Oral (stomachtube)|NOAEL|Equivalent to OECD 422|> 500 mg/kg bw/day|No effect|28 day(s) - 44 day(s)|Rat (male /female)|Experimental value|
Dermal|NOAEL|Subacute toxicity test|≥ 1545 mg/kg bw/day|No adverse systemic effects|11 day(s)|Rat (male /female)|Experimental value|
Inhalation (aerosol)|NOAEC|OECD 413|15 mg/l|Respiratory tract (no effect)|13 weeks (6h / day, 5 days /week)|Rat (male /female)|Experimental value|

Mutagenicity (in vitro);
Trimethoxyvinylsilane (CAS 2768-02-7)
Result|Method|Test substrate|Effect|Value determination|Remark
Negative without metabolic activation, positive with metabolic activation|OECD 473|CHL/IU cells|Chromosome aberrations|Experimental value|
Negative with metabolic activation, negative without metabolic activation|OECD 476|Chinese hamster ovary (CHO)|No effect|Experimental value|

Negative with metabolic activation, negative without metabolic activation|OECD 471|Bacteria (S. typhimurium and E. coli)|No effect|Experimental value|

N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)
Result|Method|Test substrate|Effect|Value determination|Remark
Negative with metabolic activation, negative without metabolic activation|Equivalent to OECD 471|Bacteria (S. typhimurium and E. coli)|No effect|Experimental value|
Negative with metabolic activation, negative without metabolic activation|Equivalent to OECD 476|Chinese hamster ovary (CHO)|No effect|Experimental value|

Mutagenicity (in vivo);
Trimethoxyvinylsilane (CAS 2768-02-7)
Result|Method|Exposure time|Test substrate|Organ/Effect|Value determination|Remark
Negative (Inhalation (vapours))|OECD 489|2 days (1x / day)|Rat (male)|No effect|Experimental value|

N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)
Result|Method|Exposure time|Test substrate|Organ/Effect|Value determination|Remark
Negative (Intraperitoneal)|Equivalent to OECD 474||Mouse (male / female)|No effect|Experimental value|Single intraperitoneal
injection

Carcinogenicity;
No data.
Not classified for carcinogenicity

Reproductive toxicity;
Trimethoxyvinylsilane (CAS 2768-02-7)
Category|Parameter|Method|Value|Exposure time|Species|Effect|Value determination|Remark
Developmental toxicity (Oral (stomach tube))|NOAEL|OECD 414|≥ 75 mg/kg bw/day|22 days (gestation, daily)|Rabbit|Foetus (no effect)|Experimental value|
Maternal toxicity (Oral (stomach tube))|NOAEL|OECD 414|7.5 mg/kg bw/day|22 days (gestation, daily)|Rabbit|No effect|Experimental value|
Effects on fertility (Oral (stomach tube))|NOAEL (P)|OECD 443|≥ 300 mg/kg bw/day||Rat (male / female)|No effect|Experimental value|
Effects on fertility (Oral (stomach tube))|NOAEL (P)|OECD 422|250 mg/kg bw/day|≥ 60 day(s)|Rat (female)|No effect|Experimental value|

N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)
Category|Parameter|Method|Value|Exposure time|Species|Effect|Value determination|Remark
Developmental toxicity (Oral (stomach tube))|NOAEL|OECD 414|750 mg/kg bw/day|14 day(s)|Rat|No effect|Experimental value|
Maternal toxicity (Oral (stomach tube))|NOAEL|OECD 414|750 mg/kg bw/day|14 day(s)|Rat|No effect|Experimental value|
Effects on fertility (Oral (stomach tube))|NOAEL|Equivalent to OECD 422|≥ 500 mg/kg bw/day|28 day(s) - 44 day (s)|Rat (male / female)|No effect|Experimental

| | |
|---|---|
| | value\| |
| Assessment of germ cell mutagenicity, classification | Based on available data, the classification criteria are not met. |
| Assessment of carcinogenicity, classification | Based on available data, the classification criteria are not met. |
| Assessment of reproductive toxicity, classification | Based on available data, the classification criteria are not met. |
| Assessment of specific target organ toxicity - single exposure, classification | Based on available data, the classification criteria are not met. |
| Assessment of specific target organ toxicity - repeated exposure, classification | Based on available data, the classification criteria are not met. |
| Assessment of aspiration hazard, classification | Based on available data, the classification criteria are not met. |

### Symptoms of exposure

| | |
|---|---|
| In case of ingestion | None known. |
| In case of skin contact | The chemical contains small amount of allergy-causing material which may give rise to allergy to sensitive persons. Allergic skin reactions: symptoms may include redness, swelling, blistering and itching. |
| In case of inhalation | None known. |
| In case of eye contact | None known. |

### 11.2 Other information

| | |
|---|---|
| Endocrine disruption | None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list. |

## SECTION 12: Ecological information

### 12.1. Toxicity

| | |
|---|---|
| Ecotoxicity | The chemical is not classified as harmful to the environment.<br>Trimethoxyvinylsilane (CAS 2768-02-7);<br>Parameter\|Method\|Value\|Duration\|Species\|Test design\|Fresh/salt water\|Value determination<br>Acute toxicity fishes\|LC50\|\|191 mg/l\|96 h\|Oncorhynchus mykiss\|\|Fresh water\|Experimental value; Nominal concentration<br>Acute toxicity crustacea\|EC50\|EU Method C.2\|169 mg/l\|48 h\|Daphnia magna\|Static system\|Fresh water\|Experimental value; Locomotor effect<br>Toxicity algae and other aquatic plants\|ErC50\|\|> 89 mg/l\|72 h\|Pseudokirchneri ella subcapitata\|Static system\|Fresh water\|Experimental value; GLP<br>\|NOEC\|\|> 89 mg/l\|72 h\|Pseudokirchneri ella subcapitata\|Static system\|Fresh water\|Experimental value; Growth rate<br>Long-term toxicity aquatic crustacea\|NOEC\|OECD 211\|28 mg/l\|21 day(s)\|Daphnia magna\|Semi-static system\|Fresh water\|Experimental value; Reproduction<br>Toxicity aquatic micro- organisms\|EC50\|OECD 209\|> 100 mg/l\|3 h\|Activated sludge\|Static system\|Fresh water\|Experimental value; Respiration |

| | |
|---|---|
| | N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3);<br>Parameter\|Method\|Value\|Duration\|Species\|Test design\|Fresh/salt water\|Value determination<br>Acute toxicity fishes\|LC50\|EU Method C.1\|597 mg/l\|96 h\|Danio rerio\|Semi-static system\|Fresh water\|Experimental value; GLP<br>Acute toxicity crustacea\|EC50\|EU Method C.2\|81 mg/l\|48 h\|Daphnia magna\|Static system\|Fresh water\|Experimental value; Locomotor effect<br>Toxicity algae and other aquatic plants\|ErC50\|OECD 201\|8.8 mg/l\|72 h\|Selenastrum capricornutum\|Static system\|Fresh water\|Experimental value; GLP<br>\|NOEC\|OECD 201\|3.1 mg/l\|72 h\|Selenastrum capricornutum\|Static system\|Fresh water\|Experimental value; GLP<br>Long-term toxicity aquatic crustacea\|NOEC\|\|> 1 ppm\|21 day(s)\|Daphnia magna\|Semi-static system\|Fresh water\|Experimental value; Reproduction<br>Toxicity aquatic micro- organisms\|EC50\|DIN 38412-8\|67 mg/l\|16 h\|Pseudomonas putida\|Static system\|Fresh water\|Experimental value; GLP |

## 12.2. Persistence and degradability

| | |
|---|---|
| Persistence and degradability description/evaluation | Contains substances that are not considered readily biodegradable.<br>Trimethoxyvinylsilane (CAS 2768-02-7);<br>Biodegradation water:<br>Method\|Value\|Duration\|Value determination<br>OECD 301F\|51 %; Oxygen consumption\|28 day(s)\|Experimental value<br><br>Phototransformation air (DT50 air):<br>Method\|Value\|Conc. OH-radicals\|Value determination<br>AOPWIN v1.92\|4.5 h\|1.5E6 /cm³\|Calculated value<br><br>Half-life water (t1/2 water :<br>Method\|Value\|Primary degradation/mineralisation\|Value determination<br>OECD 111\|< 2.4 h; pH = 7\|Primary degradation\|Weight of evidence<br><br>N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3);<br>Biodegradation water:<br>Method\|Value\|Duration\|Value determination<br>EU Method C.4\|39 %; Activated sludge\|28 day(s)\|Experimental value<br><br>Half-life water (t1/2 water :<br>Method\|Value\|Primary degradation/mineralisation\|Value determination<br>OECD 111\|0.025 h; pH = 7\|Primary degradation\|Experimental value |

## 12.3. Bioaccumulative potential

| | |
|---|---|
| Bioaccumulation, evaluation | The chemical does not contain any substances that are considered bioaccumulative. |
| Bioaccumulation, comments | Log Kow:<br>Trimethoxyvinylsilane (CAS 2768-02-7)<br>Method\|Remark\|Value\|Temperature\|Value determination<br>KOWWIN\|\|1.1\|20 °C\|QSAR<br><br>N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)<br>Method\|Remark\|Value\|Temperature\|Value determination |

| | |
|---|---|
| | \|\|-0.3\|20 °C\|QSAR |

### 12.4. Mobility in soil

| | |
|---|---|
| Mobility | Insoluble in water. |
| Mobility, comments | (log)Koc<br>Trimethoxyvinylsilane (CAS 2768-02-7)<br>Parameter\|Method\|Value\|Value determination<br>log Koc\|SRC PCKOCWIN v2.0\|2.8\|Calculated value<br><br>N-(3-(trimethoxysilyl)propyl)ethylenediamine(CAS 1760-24-3)<br>Parameter\|Method\|Value\|Value determination<br>log Koc\|SRC PCKOCWIN v2.0\|3.5\|Calculated value<br><br>Percent distribution<br>Method\|Fraction air\|Fraction biota\|Fraction sediment\|Fraction soil\|Fraction water\|Value determination<br>Fugacity Model Level III\|8.1E-5 %\|\|1.5 %\|83 %\|16 %\|Calculated value |

### 12.5. Results of PBT and vPvB assessment

| | |
|---|---|
| Results of PBT and vPvB assessment | The chemical contains no PBT or vPvB substances. |

### 12.6. Endocrine disrupting properties

| | |
|---|---|
| Endocrine disrupting properties | None of the substances listed in section 3.2 is listed on ECHA's Endocrine disruptor assessment list. |

### 12.7. Other adverse effects

| | |
|---|---|
| Ozone depletion potential | Comments: The chemical contains no substances classified as hazardous to the ozone layer. |
| Additional ecological information | The chemical contains no substances which are known to contribute to the greenhouse effect.<br>Do not allow to enter into sewer, water system or soil. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

| | |
|---|---|
| Appropriate methods of disposal for the chemical | Dispose of on site landfill area. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned below. |
| EWC waste code | EWC waste code: 08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09<br>Classified as hazardous waste: No |
| Other information | Do not empty into drains. |

## SECTION 14: Transport information

| | |
|---|---|
| Dangerous goods | No |

### 14.1. UN number

| | |
|---|---|
| Comments | Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations. |

### 14.2. UN proper shipping name

| | |
|---|---|
| Comments | Not relevant. |

### 14.3. Transport hazard class(es)

| | |
|---|---|
| Comments | Not relevant. |

### 14.4. Packing group

| | |
|---|---|
| Comments | Not relevant. |

### 14.5. Environmental hazards

| | |
|---|---|
| IMDG Marine pollutant | No |

### 14.6. Special precautions for user

| | |
|---|---|
| Special safety precautions for user | Not relevant. |

### 14.7. Maritime transport in bulk according to IMO instruments

| | |
|---|---|
| Transport in bulk (yes/no) | No |

## SECTION 15: Regulatory information

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

| | |
|---|---|
| References (laws/regulations) | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.<br>Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments.<br>Norwegian regulation on waste, 01.06.2004 no. 930, with later amendments.<br>Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap. |
| Comments | Contains no substances on the Authorisation list. Contains no SVHC - substances. |

### 15.2. Chemical safety assessment

| | |
|---|---|
| Chemical safety assessment performed | No |

## SECTION 16: Other information

| | |
|---|---|
| Supplier's notes | The information contained in this SDS must be made available to all those who handle the product. |

| | |
|---|---|
| List of relevant H-phrases (Section 2 and 3) | H226 Flammable liquid and vapour.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H335 May cause respiratory irritation. |
| CLP classification, comments | Calculation method. |
| Key literature references and sources for data | Suppliers Safety data sheet dated: 27.06.2024 |
| Abbreviations and acronyms used | ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road<br>DNEL: Derived No Effect Level<br>EWC: European Waste Code (a code from the EU's common classification system for waste)<br>EC50: The effective concentration of substance that causes 50% of the maximum response<br>IATA: The International Air Transport Association<br>ICAO: The International Civil Aviation Organisation<br>IMO: International Maritime Organization<br>LC50: Median concentration lethal to 50% of a test population.<br>LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.<br>Log Kow: Partition coefficient: n-octanol / water<br>NOEC: No observed effect concentration<br>OECD: Organisation for Economic Cooperation and Development.<br>PBT: Persistent, Bioaccumulative and Toxic<br>PNEC: Predicted No Effect Concentration<br>RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail<br>UN: United Nations<br>vPvB: very Persistent and very Bioaccumulative |
| Information added, deleted or revised | Sections being revised since previous version: 1-13, 15-16 |
| Checking quality of information | This SDS is quality controlled by Kiwa Kompetanse AS in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2015. |
| Version | 10 |
| Prepared by | Kiwa Kompetanse v/SR |
| NOBB No. | 52106233, 24020984, 24021842, 52117414, 24020992, 40598625, 24021008, 24021180, 24021016, 24021024, 48491463, 60171913, 60171946, 60171951 |