

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## Techno Screen MS 600ml

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

#### 1.1. Product identifier

Trade name/designation:

Techno Screen MS 600ml

Article No.:

T570102

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

Use of the substance/mixture:

1-component moisture cure, methoxy silane based, adhesive/sealant for various industrial applications.

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

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard statements: none

| Supplemental hazard information |   |
|---------------------------------|---|
| EUH208                          | Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine; trimethoxyvinylsilane. May produce an allergic reaction. |
| EUH210                          | Safety data sheet available on request.   |

Precautionary statements: none

#### 2.3. Other hazards

**Other adverse effects:**

Based on the available information, the product does not contain any PBT or vPvB substances in content percentages  $\geq 0.1\%$ .

The product does not contain any substances with endocrine-disrupting properties in concentrations of  $\geq 0.1\%$ .

The product reacts slowly in the presence of water (due to ambient humidity), becomes a rubbery solid and produces methanol.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]   | Concentration         |
|--|--|-----------------------|
| CAS No.: 78-40-0<br>EC No.: 201-114-5<br>Index No.: 015-013-00-7<br>REACH No.:<br>01-2119492852-28 | <b>triethyl phosphate</b><br>Acute Tox. 4 (H302), Eye Irrit. 2 (H319)<br>Warning   | 5 - ≤ 6<br>Vol-%      |
| CAS No.: 1333-86-4<br>EC No.: 215-609-9<br>REACH No.:<br>01-2119384822-32                          | <b>Carbon black</b><br>The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].   | 1 - ≤ 1.5<br>Vol-%    |
| CAS No.: 2768-02-7<br>EC No.: 220-449-8<br>REACH No.:<br>01-2119513215-52-0003                     | <b>trimethoxyvinylsilane</b><br>Acute Tox. 4 (H332), Flam. Liq. 3 (H226), Skin Sens. 1B (H317)<br>Warning  | 0.89 - ≤ 1<br>Vol-%   |
| CAS No.: 1760-24-3<br>EC No.: 217-164-6<br>REACH No.:<br>01-2119970215-39                          | <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>Acute Tox. 4 (H332), Eye Dam. 1 (H318), STOT RE 2 (H373),<br>Skin Sens. 1 (H317)<br>Danger  | 0.8 - ≤ 0.9<br>Vol-%  |
| CAS No.: 52829-07-9<br>EC No.: 258-207-9<br>REACH No.:<br>01-2119537297-32                         | <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318),<br>Repr. 2 (H361f)<br>Danger<br>M-factor (acute): 1                 | 0.15 - ≤ 0.2<br>Vol-% |
| CAS No.: 67-56-1<br>EC No.: 200-659-6<br>Index No.: 603-001-00-X                                   | <b>methanol</b><br>Acute Tox. 3 (H301, H311, H331), Flam. Liq. 2 (H225),<br>STOT SE 1 (H370), STOT SE 2 (H371)<br>Danger<br><b>Specific concentration limit (SCL)</b><br>STOT SE 2; H371: C ≥ 3% | 0 - ≤ 0.05<br>Vol-%   |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

##### In case of skin contact:

Take off contaminated clothing. Rinse skin with water. Consult a doctor if symptoms persist. Wash contaminated clothing before reuse.

##### After eye contact:

Remove immediately with a clean cloth or paper and wash the affected area with soap and water.

##### Following ingestion:

Rinse mouth thoroughly with water.

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

No further relevant information available.

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

Consult a doctor if symptoms persist. Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Carbon dioxide, Foam, Powder, Water mist

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### Unsuitable extinguishing media:

None known

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

Avoid inhalation of combustion products.

### 5.3. Advice for firefighters

The containers shall be cooled with water jets to prevent the decomposition of the product and the formation of potentially harmful substances. Complete fire protective clothing shall be worn at all times. Extinguishing water that is not allowed to enter the sewage pipes shall be collected. The water used for extinguishing and the fire residues shall be taken up in accordance with the regulations in force.

Normal firefighting clothing, e.g. an open-circuit compressed air respirator (EN 137) firefighting kit (EN469), firefighting gloves (EN 659) and firefighting boots (HO A 29 or A30)

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

The leakage may be blocked if there is no danger. Appropriate protective devices (including personal protective devices as per para. 8 from the safety instructions) shall be put on to prevent contamination of skin, eyes and personal clothing. These instructions apply to both reprocessing supervisors and emergency stop interventions.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For cleaning up:

The spilled product must be sucked into a suitable container. The container to be used shall be tested for compatibility with the product, subject to section 10. The residual product shall be absorbed with inert absorbent material. Adequate ventilation of the affected area shall be provided. Contaminated material must be disposed of in accordance with the regulations in section 13.

### 6.4. Reference to other sections

See section 7 for further information on safe handling.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Keep away from heat, sparks and free flame, refrain from smoking and use of matches or lighters.

Without the necessary ventilation, vapours may accumulate in the lower layers near the floor and may also ignite remotely with the risk of flashback. Accumulation of electrostatic charges must be avoided.

Eating, drinking and smoking are prohibited during product use. Wetted clothing and protective devices must be removed before entering the eating area. Avoid dispersal of the product in the environment.

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

#### Requirements for storage rooms and vessels:

Keep/Store only in original container. Store in a well-ventilated place. Keep cool.

#### Hints on storage assembly:

Do not store near sources of ignition.

**Storage class (TRGS 510, Germany):** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

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### 7.3. Specific end use(s)

#### Recommendation:

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name   | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|--|--|
| MAK (AT)                             | <b>methanol</b><br>CAS No.: 67-56-1<br>EC No.: 200-659-6 | ② 800 ppm (1,040 mg/m <sup>3</sup> )<br>⑤ (max. 4x15 min./Schicht, kann über die Haut aufgenommen werden) H  |
| MAK (AT)                             | <b>methanol</b><br>CAS No.: 67-56-1<br>EC No.: 200-659-6 | ① 200 ppm (260 mg/m <sup>3</sup> )<br>⑤ (kann über die Haut aufgenommen werden) H  |
| IOELV (EU)                           | <b>methanol</b><br>CAS No.: 67-56-1<br>EC No.: 200-659-6 | ① 200 ppm (260 mg/m <sup>3</sup> )<br>⑤ (may be absorbed through the skin)   |

#### 8.1.2. Biological limit values

No data available

#### 8.1.3. DNEL-/PNEC-values

| Substance name   | DNEL value             | ① DNEL type<br>② Exposure route                               |
|--|------------------------|---|
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                        | 27.6 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                        | 18.9 mg/m <sup>3</sup> | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                        | 3.9 mg/kg              | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                        | 7.8 mg/kg              | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                        | 0.3 mg/kg              | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6 | 35.3 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6 | 8.7 mg/m <sup>3</sup>  | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6 | 5 mg/kg bw/day         | ① DNEL worker<br>② Long-term - dermal, systemic effects       |

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| Substance name   | DNEL value            | ① DNEL type<br>② Exposure route                               |
|--|-----------------------|---|
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 2.5 mg/kg bw/day      | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 5 mg/kg bw/day        | ① DNEL worker<br>② Acute - dermal, systemic effects           |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 17 mg/kg bw/day       | ① DNEL Consumer<br>② Acute - dermal, systemic effects         |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 5.6 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1.4 mg/m <sup>3</sup> | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 5.6 mg/m <sup>3</sup> | ① DNEL worker<br>② Acute - inhalation, systemic effects       |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1.4 mg/m <sup>3</sup> | ① DNEL Consumer<br>② Acute - inhalation, systemic effects     |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 2 mg/kg               | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1 mg/kg               | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 2 mg/kg               | ① DNEL worker<br>② Acute - dermal, systemic effects           |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1 mg/kg               | ① DNEL Consumer<br>② Acute - dermal, systemic effects         |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1 mg/kg               | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1 mg/kg               | ① DNEL Consumer<br>② Acute - oral, systemic effects           |

| Substance name  | PNEC Value | ① PNEC type                  |
|---|------------|------------------------------|
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8 | 0.34 mg/L  | ① PNEC aquatic, freshwater   |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8 | 0.034 mg/L | ① PNEC aquatic, marine water |

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| Substance name   | PNEC Value   | ① PNEC type                          |
|--|--------------|--------------------------------------|
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                          | 110 mg/L     | ① PNEC sewage treatment plant        |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                          | 0.27 mg/kg   | ① PNEC sediment, freshwater          |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                          | 0.046 mg/kg  | ① PNEC soil                          |
| <b>trimethoxyvinylsilane</b><br>CAS No.: 2768-02-7<br>EC No.: 220-449-8                          | 3.4 mg/L     | ① PNEC aquatic, intermittent release |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 0.062 mg/L   | ① PNEC aquatic, freshwater           |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 0.0062 mg/L  | ① PNEC aquatic, marine water         |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 25 mg/L      | ① PNEC sewage treatment plant        |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 0.22 mg/kg   | ① PNEC sediment, freshwater          |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 0.022 mg/kg  | ① PNEC sediment, marine water        |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 0.0085 mg/kg | ① PNEC soil                          |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b><br>CAS No.: 1760-24-3<br>EC No.: 217-164-6   | 0.62 mg/L    | ① PNEC aquatic, intermittent release |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 0.005 mg/L   | ① PNEC aquatic, freshwater           |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 0.0005 mg/L  | ① PNEC aquatic, marine water         |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1 mg/L       | ① PNEC sewage treatment plant        |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 8.02 mg/kg   | ① PNEC sediment, freshwater          |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 0.802 mg/kg  | ① PNEC sediment, marine water        |

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| Substance name   | PNEC Value | ① PNEC type |
|--|------------|-------------|
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b><br>CAS No.: 52829-07-9<br>EC No.: 258-207-9 | 1.6 mg/kg  | ① PNEC soil |

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Considering that appropriate protective measures should always take precedence over personal protective clothing, ensure that the workplace is well ventilated by effective local exhaust ventilation. For the selection of personal protective equipment, the trusted chemical manufacturers may need to be consulted. The personal protective equipment must be CE marked to indicate its suitability for the applicable regulations.

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Safety goggles with side shields (EN 166).

##### Skin protection:

Hand protection:

Protect your hands with category III work gloves (EN 374 report). For the final choice of the material of the work gloves, the type of use must be evaluated. In case of short-term contact or as protection against occasional contact, use nitrile gloves (0.3 mm thickness, permeation time > 480 min). In case of continued exposure, use butlic rubber gloves (0.4 mm thickness, permeation time > 480 min). Contaminated gloves must be removed.

Skin protection:

Work clothing with long sleeves and category I accident protection shoes must be worn (see Regulation 2016/425 and standard EN ISO 20344). After taking off the protective clothing, one must wash with soap and water.

##### Respiratory protection:

If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances contained in the product is exceeded, it is recommended to wear a mask of filter type A for organic vapours. The class (1,2 or 3) must be selected according to the concentration limit (1000, 5000 or 10000 ppm) (see standard EN 14387).v

#### 8.2.3. Environmental exposure controls

Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Paste

Colour: black

Odour: characteristic

#### Safety relevant basis data

| Parameter                                    | Value             | ① Method<br>② Remark |
|--|-------------------|----------------------|
| pH   | not applicable    |                      |
| Melting point                                | not applicable    |                      |
| Initial boiling point and boiling range      | not applicable    |                      |
| Decomposition temperature                    | not applicable    |                      |
| Evaporation rate                             | No data available |                      |
| Upper/lower flammability or explosive limits | not applicable    |                      |
| Vapour pressure                              | No data available |                      |
| Relative density                             | 1.44 - 1.48       | ① ISO 1183-1 A       |



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| Parameter         | Value                    | ① Method<br>② Remark                      |
|-------------------|--------------------------|---|
| Water solubility  | practically insoluble    |   |
| Dynamic viscosity | 230,000 – 330,000 mPa* s | ① UNI EN ISO 3219 - Rotational viscometer |

### 9.2. Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product reacts slowly in the presence of water (due to ambient humidity), becomes a rubbery solid and produces methanol.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No hazardous reactions expected under normal conditions.

### 10.4. Conditions to avoid

Humidity

### 10.5. Incompatible materials

Water

### 10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide, Nitrogen oxides, Flue gas

## SECTION 11: Toxicological information

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

#### Toxicological information

| Acute Toxicity Estimate for Mixtures   |  |
|--|--|
| <b>ATE (oral):</b> >2,000 mg/kg  |  |
| <b>triethyl phosphate</b> CAS No.: 78-40-0 EC No.: 201-114-5                               |  |
| <b>LD<sub>50</sub> oral:</b> 1,600 mg/kg (Rat)   |  |
| <b>LD<sub>50</sub> dermal:</b> >20,000 mg/kg (Rabbit)                                      |  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >8,817 mg/L 4 h (Rat)        |  |
| <b>Carbon black</b> CAS No.: 1333-86-4 EC No.: 215-609-9                                   |  |
| <b>LD<sub>50</sub> oral:</b> >8,000 mg/kg (Rat)  |  |
| <b>LD<sub>50</sub> dermal:</b> >3,000 mg/kg (Rabbit)                                       |  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >27 mg/L 1 h (Rat)           |  |
| <b>trimethoxyvinylsilane</b> CAS No.: 2768-02-7 EC No.: 220-449-8                          |  |
| <b>LD<sub>50</sub> oral:</b> 7,236 mg/kg (Rat)   |  |
| <b>LD<sub>50</sub> dermal:</b> 3,880 mg/kg (Rabbit)  |  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 11 mg/L 4 h                     |  |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b> CAS No.: 1760-24-3 EC No.: 217-164-6   |  |
| <b>LD<sub>50</sub> oral:</b> 2,295 mg/kg (Rat)   |  |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rabbit)                                       |  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 1.49 mg/L (Rat)              |  |
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b> CAS No.: 52829-07-9 EC No.: 258-207-9 |  |
| <b>LD<sub>50</sub> oral:</b> 3,700 mg/kg (Rat)   |  |
| <b>LD<sub>50</sub> dermal:</b> >3,170 mg/kg (Rat)  |  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 0.5 mg/L (Rat)               |  |



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### Acute oral toxicity:

Not classified

### Acute dermal toxicity:

Not classified

### Acute inhalation toxicity:

Not classified

### Skin corrosion/irritation:

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

### Serious eye damage/irritation:

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

### Respiratory or skin sensitisation:

May cause allergic reactions.

Contains: trimethoxyvinylsilane, N-(3-(trimethoxysilyl)propyl)ethylenediamine.

### 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.

### STOT-single exposure:

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

### STOT-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

### Endocrine disrupting properties:

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

## SECTION 12: Ecological information

### 12.1. Toxicity

|  |
|--|
| <b>triethyl phosphate</b> CAS No.: 78-40-0 EC No.: 201-114-5                             |
| LC <sub>50</sub> : >100 mg/L 4 d (fish, Danio rerio)                                     |
| EC <sub>50</sub> : 901 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)             |
| EC <sub>50</sub> : 127 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)             |
| NOEC: 31.6 mg/L (crustaceans, Daphnia magna)   |
| <b>Carbon black</b> CAS No.: 1333-86-4 EC No.: 215-609-9                                 |
| LC <sub>50</sub> : >1,000 mg/L 4 d (fish, Brachydanio rerio)                             |
| EC <sub>50</sub> : >10,000 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)         |
| <b>trimethoxyvinylsilane</b> CAS No.: 2768-02-7 EC No.: 220-449-8                        |
| LC <sub>50</sub> : 191 mg/L 4 d (fish, Oncorhynchus mykiss)                              |
| EC <sub>50</sub> : 167 mg/L 2 d (crustaceans, Daphnia magna)                             |
| EC <sub>50</sub> : 957 mg/L 3 d (Algae/water plant)                                      |
| NOEC: 25 mg/L (Algae/water plant, Selenastrum capricornutum)                             |
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b> CAS No.: 1760-24-3 EC No.: 217-164-6 |
| LC <sub>50</sub> : 344 mg/L 4 d (fish, Brachydanio rerio)                                |
| EC <sub>50</sub> : 81 mg/L 2 d (crustaceans, Daphnia magna)                              |
| EC <sub>50</sub> : 126 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)             |

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|  |
|--|
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b> CAS No.: 52829-07-9 EC No.: 258-207-9 |
|--|

|   |
|---|
| <b>LC<sub>50</sub></b> : 4.4 mg/L 4 d (fish, Brachydanio rerio) |
|---|

|   |
|---|
| <b>EC<sub>50</sub></b> : 0.57 mg/L 2 d (crustaceans, Daphnia sp.) |
|---|

|  |
|--|
| <b>EC<sub>50</sub></b> : 1.9 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus) |
|--|

### Assessment/classification:

No further relevant information available.

### 12.2. Persistence and degradability

|   |
|---|
| <b>trimethoxyvinylsilane</b> CAS No.: 2768-02-7 EC No.: 220-449-8 |
|---|

|                                    |
|------------------------------------|
| <b>Biodegradation:</b> Yes, slowly |
|------------------------------------|

|  |
|--|
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b> CAS No.: 1760-24-3 EC No.: 217-164-6 |
|--|

|                                    |
|------------------------------------|
| <b>Biodegradation:</b> Yes, slowly |
|------------------------------------|

|  |
|--|
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b> CAS No.: 52829-07-9 EC No.: 258-207-9 |
|--|

|                                    |
|------------------------------------|
| <b>Biodegradation:</b> Yes, slowly |
|------------------------------------|

|  |
|--|
| <b>methanol</b> CAS No.: 67-56-1 EC No.: 200-659-6 |
|--|

|                                     |
|-------------------------------------|
| <b>Biodegradation:</b> Yes, rapidly |
|-------------------------------------|

### Additional information:

No further relevant information available.

### 12.3. Bioaccumulative potential

|  |
|--|
| <b>methanol</b> CAS No.: 67-56-1 EC No.: 200-659-6 |
|--|

|                                   |
|-----------------------------------|
| <b>Log K<sub>ow</sub></b> : -0.77 |
|-----------------------------------|

|   |
|---|
| <b>Bioconcentration factor (BCF):</b> 0.2 |
|---|

### Accumulation / Evaluation:

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

### 12.5. Results of PBT and vPvB assessment

|  |
|--|
| <b>triethyl phosphate</b> CAS No.: 78-40-0 EC No.: 201-114-5 |
|--|

|  |
|--|
| <b>Results of PBT and vPvB assessment:</b> — |
|--|

|  |
|--|
| <b>Carbon black</b> CAS No.: 1333-86-4 EC No.: 215-609-9 |
|--|

|  |
|--|
| <b>Results of PBT and vPvB assessment:</b> — |
|--|

|   |
|---|
| <b>trimethoxyvinylsilane</b> CAS No.: 2768-02-7 EC No.: 220-449-8 |
|---|

|  |
|--|
| <b>Results of PBT and vPvB assessment:</b> — |
|--|

|  |
|--|
| <b>N-(3-(trimethoxysilyl)propyl)ethylenediamine</b> CAS No.: 1760-24-3 EC No.: 217-164-6 |
|--|

|  |
|--|
| <b>Results of PBT and vPvB assessment:</b> — |
|--|

|  |
|--|
| <b>bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b> CAS No.: 52829-07-9 EC No.: 258-207-9 |
|--|

|  |
|--|
| <b>Results of PBT and vPvB assessment:</b> — |
|--|

|  |
|--|
| <b>methanol</b> CAS No.: 67-56-1 EC No.: 200-659-6 |
|--|

|  |
|--|
| <b>Results of PBT and vPvB assessment:</b> — |
|--|

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

### 12.7. Other adverse effects

No further relevant information available.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Waste treatment options

##### Appropriate disposal / Product:

Reuse if possible. Product residues are to be considered as hazardous waste. The hazardousness of the waste partially containing this product must be evaluated on the basis of the legal provisions in force. Disposal must be entrusted to a company authorised for waste management, taking into account national and, where applicable, local regulations.

##### Appropriate disposal / Package:

Uncleaned packaging: Contaminated packaging material must be sent for recycling or disposal in accordance with the country's waste management regulations.

### SECTION 14: Transport information

| Land transport (ADR/RID)                                   | Inland waterway craft (ADN)                                | Sea transport (IMDG)                                       | Air transport (ICAO-TI / IATA-DGR)                         |
|--|--|--|--|
| <b>14.1. UN number or ID number</b>                        |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.2. UN proper shipping name</b>                       |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.3. Transport hazard class(es)</b>                    |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| <b>14.4. Packing group</b>                                 |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| <b>14.5. Environmental hazards</b>                         |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |
| <b>14.6. Special precautions for user</b>                  |  |  |  |
| not relevant   | not relevant   | not relevant   | not relevant   |

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

not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

##### Authorisations:

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006

Product: point 40

Substances contained: point 75, point 20 BIS(NEODECANOYLOXY)DIOCTYLSTANNAN

Substances according to Candidate List (Art. 59 REACH): Based on the available information, the product does not contain SVHC substances in percentages  $\geq 0.1\%$ .

##### Other regulations (EU):

This product is not assigned to a hazard category.

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 73.5 g/L

##### 15.1.2. National regulations

No data available

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### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

|                  |   |
|------------------|---|
| ACGIH            | American Conference of Governmental Industrial Hygienists                                       |
| 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             |
| BCF              | Bioconcentration Factor   |
| CAS              | Chemical Abstracts Service  |
| CLP              | Classification, Labelling and Packaging   |
| DNEL             | derived no-effect level   |
| EC <sub>50</sub> | Effective Concentration 50%   |
| EN               | European Standard   |
| ES               | Exposure scenario   |
| ICAO             | International Civil Aviation Organization   |
| IMDG             | International Maritime Dangerous Goods  |
| IMO              | International Maritime Organization   |
| ISO              | International Standards Organisation  |
| KG               | body weight   |
| LC <sub>50</sub> | Lethal (fatal) Concentration 50%  |
| LD <sub>50</sub> | Lethal (fatal) Dose 50%   |
| MAK              | Maximum concentration in the workplace air (CH)   |
| NFPA             | National Fire Protection Association  |
| NIOSH            | National Institute for Occupational Safety & Health   |
| NOEC             | No Observed Effect Concentration  |
| OEL              | Threshold Limit Value   |
| OSHA             | Occupational Safety & Health Administration   |
| PBT              | persistent and bioaccumulative and toxic  |
| PNEC             | Predicted No Effect Concentration   |
| REACH            | Registration, Evaluation and Authorization of Chemicals   |
| RID              | Dangerous goods regulations for transport by rail   |
| SCL              | Specific concentration limit  |
| TRGS             | Technische Regeln für Gefahrstoffe  |
| TWA              | Time Weighted Average   |
| UN               | United Nations  |
| VOC              | Volatile organic compounds  |
| ZNS              | central nervous system  |

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements |                                     |
|-------------------|-------------------------------------|
| H225              | Highly flammable liquid and vapour. |
| H226              | Flammable liquid and vapour.        |
| H301              | Toxic if swallowed.                 |
| H302              | Harmful if swallowed.               |
| H311              | Toxic in contact with skin.         |

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| Hazard statements |  |
|-------------------|--|
| H317              | May cause an allergic skin reaction.                               |
| H318              | Causes serious eye damage.   |
| H319              | Causes serious eye irritation.                                     |
| H331              | Toxic if inhaled.  |
| H332              | Harmful if inhaled.  |
| H361f             | Suspected of damaging fertility.                                   |
| H370              | Causes damage to organs.   |
| H371              | May cause damage to organs.  |
| H373              | May cause damage to organs through prolonged or repeated exposure. |
| H400              | Very toxic to aquatic life.  |
| H411              | Toxic to aquatic life with long lasting effects.                   |

### 16.6. Training advice

No data available

### 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.