

SAFETY DATA SHEET

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

Revision date: 30 Jan 2025

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Techno Screen MS 290ml

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

1.1. Product identifier

Trade name/designation:

Techno Screen MS 290ml

Article No.:

T570101

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]

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 Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 78-40-0 EC No.: 201-114-5 Index No.: 015-013-00-7 REACH No.: 01-2119492852-28	triethyl phosphate Acute Tox. 4 (H302), Eye Irrit. 2 (H319) Warning Acute Toxicity Estimate ATE (oral) 1,600 mg/kg ATE (dermal) > 20,000 mg/kg ATE (inhalation, dust/mist) > 8,817 mg/L	5 - ≤ 6 Vol-%
CAS No.: 1333-86-4 EC No.: 215-609-9 REACH No.: 01-2119384822-32	Carbon black The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Acute Toxicity Estimate ATE (oral) > 8,000 mg/kg ATE (dermal) > 3,000 mg/kg ATE (inhalation, dust/mist) > 27 mg/L	1 - ≤ 1.5 Vol-%
CAS No.: 2768-02-7 EC No.: 220-449-8 REACH No.: 01-2119513215-52	trimethoxysilylsilane Acute Tox. 4 (H332), Flam. Liq. 3 (H226), Skin Sens. 1B (H317) Warning Acute Toxicity Estimate ATE (oral) 7,236 mg/kg ATE (dermal) 3,880 mg/kg ATE (inhalation, vapour) 11 mg/L	0.89 - ≤ 1 Vol-%
CAS No.: 1760-24-3 EC No.: 217-164-6 REACH No.: 01-2119970215-39	N-(3-(trimethoxysilyl)propyl)ethylenediamine The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Acute Toxicity Estimate ATE (oral) 2,295 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, dust/mist) 1.49 mg/L	0.8 - ≤ 0.9 Vol-%
CAS No.: 52829-07-9 EC No.: 258-207-9 REACH No.: 01-2119537297-32	bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Dam. 1 (H318), Repr. 2 (H361f) Danger M-factor (acute): 1 Acute Toxicity Estimate ATE (oral) 3,700 mg/kg ATE (dermal) > 3,170 mg/kg ATE (inhalation, vapour) > 5 mg/L ATE (inhalation, dust/mist) 0.5 mg/L	0.15 - ≤ 0.2 Vol-%
CAS No.: 67-56-1 EC No.: 200-659-6 Index No.: 603-001-00-X	methanol Acute Tox. 3 (H301, H311, H331), Flam. Liq. 2 (H225), STOT SE 1 (H370), STOT SE 2 (H371) Danger Specific concentration limit (SCL) STOT SE 2; H371: C ≥ 3% Acute Toxicity Estimate ATE (oral) 100 mg/kg ATE (dermal) 300 mg/kg ATE (inhalation, vapour) 3 mg/L ATE (inhalation, dust/mist) 0.5 mg/L	0 - ≤ 0.05 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.

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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

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.

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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

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 ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	methanol CAS No.: 67-56-1 EC No.: 200-659-6	② 800 ppm (1,040 mg/m ³) ⑤ (max. 4x15 min./Schicht, kann über die Haut aufgenommen werden) H
MAK (AT)	methanol CAS No.: 67-56-1 EC No.: 200-659-6	① 200 ppm (260 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) H
IOELV (EU)	methanol CAS No.: 67-56-1 EC No.: 200-659-6	① 200 ppm (260 mg/m ³) 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 ② Exposure route
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	27.6 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	18.9 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	3.9 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	7.8 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	0.3 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	35.3 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	8.7 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	5 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	2.5 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	5 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	17 mg/kg bw/day	① DNEL Consumer ② Acute - dermal, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	5.6 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	1.4 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	5.6 mg/m ³	① DNEL worker ② Acute - inhalation, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	1.4 mg/m ³	① DNEL Consumer ② Acute - inhalation, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	2 mg/kg	① DNEL worker ② Long-term - dermal, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	1 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	2 mg/kg	① DNEL worker ② Acute - dermal, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	1 mg/kg	① DNEL Consumer ② Acute - dermal, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	1 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	1 mg/kg	① DNEL Consumer ② Acute - oral, systemic effects

Substance name	PNEC Value	① PNEC type
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	0.34 mg/L	① PNEC aquatic, freshwater
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	0.034 mg/L	① PNEC aquatic, marine water
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	110 mg/L	① PNEC sewage treatment plant
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	0.27 mg/kg	① PNEC sediment, freshwater
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	0.046 mg/kg	① PNEC soil
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	3.4 mg/L	① PNEC aquatic, intermittent release
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.062 mg/L	① PNEC aquatic, freshwater
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.0062 mg/L	① PNEC aquatic, marine water
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	25 mg/L	① PNEC sewage treatment plant
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.22 mg/kg	① PNEC sediment, freshwater
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.022 mg/kg	① PNEC sediment, marine water
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.0085 mg/kg	① PNEC soil

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Substance name	PNEC Value	① PNEC type
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6	0.62 mg/L	① PNEC aquatic, intermittent release
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	0.005 mg/L	① PNEC aquatic, freshwater
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	0.0005 mg/L	① PNEC aquatic, marine water
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	1 mg/L	① PNEC sewage treatment plant
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	8.02 mg/kg	① PNEC sediment, freshwater
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	0.802 mg/kg	① PNEC sediment, marine water
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 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

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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

Form: Paste

Colour: black

Odour: characteristic

flammability: No data available

Safety relevant basis data

Parameter	Value	① Method 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
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

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triethyl phosphate	CAS No.: 78-40-0	EC No.: 201-114-5
LD₅₀ oral: 1,600 mg/kg (Rat)		
LD₅₀ dermal: >20,000 mg/kg (Rabbit)		
LC₅₀ Acute inhalation toxicity (dust/mist): >8,817 mg/L 4 h (Rat)		
Carbon black	CAS No.: 1333-86-4	EC No.: 215-609-9
LD₅₀ oral: >8,000 mg/kg (Rat)		
LD₅₀ dermal: >3,000 mg/kg (Rabbit)		
LC₅₀ Acute inhalation toxicity (dust/mist): >27 mg/L 1 h (Rat)		
trimethoxyvinylsilane	CAS No.: 2768-02-7	EC No.: 220-449-8
LD₅₀ oral: 7,236 mg/kg (Rat)		
LD₅₀ dermal: 3,880 mg/kg (Rabbit)		
LC₅₀ Acute inhalation toxicity (vapour): 11 mg/L 4 h		
N-(3-(trimethoxysilyl)propyl)ethylenediamine	CAS No.: 1760-24-3	EC No.: 217-164-6
LD₅₀ oral: 2,295 mg/kg (Rat)		
LD₅₀ dermal: >2,000 mg/kg (Rabbit)		
LC₅₀ Acute inhalation toxicity (dust/mist): 1.49 mg/L (Rat)		
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	CAS No.: 52829-07-9	EC No.: 258-207-9
LD₅₀ oral: 3,700 mg/kg (Rat)		
LD₅₀ dermal: >3,170 mg/kg (Rat)		
LC₅₀ Acute inhalation toxicity (vapour): >5 mg/L		
LC₅₀ Acute inhalation toxicity (dust/mist): 0.5 mg/L (Rat)		

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.

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SECTION 12: Ecological information

* 12.1. Toxicity

triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5
LC ₅₀ : >100 mg/L 4 d (fish, Danio rerio)
EC ₅₀ : 901 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
EC ₅₀ : 127 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
NOEC: 31.6 mg/L (crustaceans, Daphnia magna)
Carbon black CAS No.: 1333-86-4 EC No.: 215-609-9
LC ₅₀ : >1,000 mg/L 4 d (fish, Brachydanio rerio)
EC ₅₀ : >10,000 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8
LC ₅₀ : 191 mg/L 4 d (fish, Oncorhynchus mykiss)
EC ₅₀ : 167 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : 957 mg/L 3 d (Algae/water plant)
NOEC: 25 mg/L (Algae/water plant, Selenastrum capricornutum)
NOEC: 28.1 mg/L (crustaceans, Daphnia magna)
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6
LC ₅₀ : 344 mg/L 4 d (fish, Brachydanio rerio)
EC ₅₀ : 81 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : 126 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9
LC ₅₀ : 4.4 mg/L 4 d (fish, Brachydanio rerio)
EC ₅₀ : 0.57 mg/L 2 d (crustaceans, Daphnia sp.)
EC ₅₀ : 1.9 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)
LC ₅₀ : 5.3 mg/L 4 d (fish, Oryzias latipes)
EC ₅₀ : 0.7 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
NOEC: 0.23 mg/L (crustaceans, Daphnia magna)

Assessment/classification:

No further relevant information available.

12.2. Persistence and degradability

trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8
Biodegradation: Yes, slowly
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6
Biodegradation: Yes, slowly
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9
Biodegradation: Yes, slowly
methanol CAS No.: 67-56-1 EC No.: 200-659-6
Biodegradation: Yes, rapidly

Additional information:

No further relevant information available.

12.3. Bioaccumulative potential

methanol CAS No.: 67-56-1 EC No.: 200-659-6
Log K _{ow} : -0.77
Bioconcentration factor (BCF): 0.2

Accumulation / Evaluation:

No further relevant information available.

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12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

triethyl phosphate CAS No.: 78-40-0 EC No.: 201-114-5
Results of PBT and vPvB assessment: —
Carbon black CAS No.: 1333-86-4 EC No.: 215-609-9
Results of PBT and vPvB assessment: —
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8
Results of PBT and vPvB assessment: —
N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS No.: 1760-24-3 EC No.: 217-164-6
Results of PBT and vPvB assessment: —
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9
Results of PBT and vPvB assessment: —
methanol CAS No.: 67-56-1 EC No.: 200-659-6
Results of PBT and vPvB assessment: —

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

Water hazard class 1: slightly hazardous to water

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)
14.1. UN number or ID number			
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.
14.2. UN proper shipping name			
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.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
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

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

* 16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.7.	Other adverse effects
14.3.	Transport hazard class(es)
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.5.	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

* 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 ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario

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ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	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.
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.
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

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caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.