Techno Screen MS 400ml

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

1.1. Product identifier

Trade name/designation:

Techno Screen MS 400ml

Article No.:
T570103

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 Eberstalzell
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 trimethoxyvinylsilane. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Precautionary statements: none

*

2.3. Other hazards

Other adverse effects:
The product does not meet the PBT/vPvB criteria.
The product does not meet the criteria regarding its endocrine disrupting properties.

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.: 2768-02-7 EC No.: 220-449-8 REACH No.: 01-2119513215-52	**trimethoxyvinylsilane** 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 **Additional information:** Substance that poses a risk to health or the environment and meets the criteria set out in Regulation (EU) No. 2020/878.	< 1 weight-%
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 **Additional information:** Substance that poses a risk to health or the environment and meets the criteria set out in Regulation (EU) No. 2020/878.	< 1 weight-%

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

SECTION 4: First aid measures

* **4.1. Description of first aid measures**

General information:
Symptoms of poisoning may occur after contact, so if in doubt, consult a doctor in case of direct contact with the chemical product or persistence of indisposition, and present the safety data sheet of this product to the doctor.

Following inhalation:
This is a product that is not classified as hazardous by inhalation. However, it is recommended that in case of symptoms of poisoning, it is recommended to remove the person from the place of exposure, provide him/her with clean air and keep him/her at rest. position. Consult a doctor if symptoms persist.

In case of skin contact:
This is a product that is not classified as dangerous in contact with the skin. Nevertheless, it is recommended that in case of However, in case of contact with the skin, it is recommended to remove contaminated clothing and shoes, to rinse the skin or, if necessary, to shower the affected person with with plenty of cold water and neutral soap. In severe cases, consult a doctor.

After eye contact:
Flush eyes with plenty of water for at least 15 minutes. If the affected person wears contact lenses, remove them as far as they do not stick to the eyes, otherwise additional injuries may occur. In all cases, a doctor must be consulted as soon as possible after washing and the safety data sheet presented to him.

Following ingestion:
In case of ingestion, seek medical attention immediately and provide the doctor with the safety data sheet of this product. present to the doctor.

* **4.2. Most important symptoms and effects, both acute and delayed**
The immediate and delayed effects are given in sections 2 and 11.

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:
Product not flammable under normal storage, handling and application conditions, contains flammable substances. In the event of ignition due to improper handling, storage or use, fire extinguishers with polyvalent powder (ABC powder) should preferably be used in accordance with the Ordinance on Fire Protection Installations.

Unsuitable extinguishing media:
Water jet

* ### 5.2. Special hazards arising from the substance or mixture
Avoid inhalation of combustion products.

Hazardous combustion products:
As a result of combustion or thermal decomposition, reactive sub-products are formed that can be highly toxic and therefore pose a high and can therefore pose a high health risk.

* ### 5.3. Advice for firefighters
Depending on the size of the fire, it may be necessary to use full protective clothing and autonomous breathing apparatus may be required. There should be a minimum stock of emergency facilities or equipment (fireproof blankets, portable first aid kit, ...) in accordance with Directive 89/654/EC. first-aid kit, ...) should be available in accordance with Directive 89/654/EC.

* ### 5.4. Additional information
Proceed in accordance with the internal emergency plan and the information sheets on what to do in the event of accidents and other emergencies. proceed. Keep away all sources of ignition. In case of fire, cool the storage containers and tanks of products that may catch fire or explode or explode or are at risk of BLEVE due to elevated temperatures. The leakage of products used in Avoid leakage of products used in firefighting into groundwater.

SECTION 6: Accidental release measures

* ### 6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Isolate leaks as far as this does not pose an additional risk to the persons involved. Evacuate area and keep away persons without protective equipment. In view of possible contact with the spilled product, the use of personal protective equipment is mandatory (see section 8). Above all, prevent the formation of flammable vapour-air mixtures, either by ventilation or by using a neutralising agent. Keep away all sources of ignition. Prevent electrostatic charges by connecting all conductor surfaces on which static electricity can build up, again keeping them earthed as a whole.

Protective equipment:
Wear protective equipment. Keep unprotected persons away.

6.1.2. For emergency responders
Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions
Taking into account Community legislation on environmental protection, it is recommended to avoid leakage of both the product and its packaging into the environment. For further information, see section 7.1.

* ### 6.3. Methods and material for containment and cleaning up
Other information:
Soak up spilled product using sand or neutral absorbent material and take to a safe place. Do not absorb with Do not absorb with sawdust or other flammable absorbents.

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:
With regard to the handling of loads, comply with the legislation in force on the prevention of industrial risks. Maintain order and cleanliness and carry out disposal using safe methods (section 6).

Fire prevent measures:
Avoid evaporation of the product as it contains flammable substances and flammable vapour/air mixtures may form in the presence of ignition sources. Control ignition sources (mobile phones, sparks, ...) and decant slowly to avoid the generation of electrostatic charges. For information on conditions and materials to avoid, see section 10.

Environmental precautions:
It is recommended to have absorbent material in the immediate vicinity of the product (see section 6.3).

Advices on general occupational hygiene

Do not eat, drink or smoke when using this product.

*

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
storage temperature: 5 - 25°C
Maximum storage period (time): 18 month(s)

Requirements for storage rooms and vessels:
Avoid sources of heat, radiation, static electricity and contact with food. Further information (see section 10.5).

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:
With the exception of the instructions already listed, no special recommendations are required regarding the use of this product.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

8.1.1. Occupational exposure limit values

No data available

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/m³	① DNEL worker ② Long-term – inhalation, systemic effects
trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8	18.9 mg/m³	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
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9	5.6 mg/m³	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/m³	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/m³	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/m³	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
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

Substance name	PNEC Value	① PNEC type
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
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

As a precautionary measure, the use of basic individual protective equipment with the appropriate CE marking is recommended. For further information on individual protective equipment (storage, use, cleaning, maintenance, protection class...), please refer to the information brochure of the respective manufacturer. The indications given in this point refer to the pure product. The protective measures for the diluted product may differ depending on the degree of dilution, use, application method, etc. To determine the obligation to install emergency showers and/or eyewash devices in the warehouses, the respective applicable regulations regarding the storage of chemical products must be taken into account. For more information, see sections 7.1 and 7.2.

8.2.2. Personal protection equipment



Eye/face protection:

Wear protective goggles if necessary. Panorama safety goggles against splashes and / or ejection. CE CAT II, EN 166:2002, EN ISO 4007:2018. Clean daily and disinfect at regular intervals according to the manufacturer's instructions. Use when there is a risk of splashing is recommended.

Skin protection:

Hand protection:

Wear protective gloves. (CE CAT I). Replace the gloves before any possible damage occurs. If you use the product for a long time due to professional/industrial use, then you should use gloves of type CE III or according to the standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018.

As the product is a mixture of different materials, the resistance of the glove material cannot be calculated in advance and must be verified shortly before use.

Body protection:
Wear suitable work clothing. CE CAT I. Replace before signs of deterioration appear. CE III is recommended for professional/industrial users exposed to the substance for prolonged periods, in accordance with EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994 regulations. Non-slip work footwear. CE CAT II, EN ISO 20347:2012. Replace before signs of deterioration appear. CE III is recommended for professional/industrial users exposed to the fabric for prolonged periods, in accordance with EN ISO 20345:2012 and EN 13832-1:2007 regulations.

Respiratory protection:
The use of protective equipment is required in case of fog formation or in case of exceeding the limits for professional exposure limits are exceeded.

Other protection measures:
Emergency shower: ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011
Eye wash: DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

8.2.3. Environmental exposure controls
Taking into account Community legislation on environmental protection, it is recommended to avoid leakage of both the product and its packaging into the environment. For further information, see section 7.1.

* 8.3. Additional information
Volatile organic compounds
VOC value 0,98 weight-%
Density of volatile organic compounds: 15,85 kg/m³ (15,85 g/L)
Average carbon number: 6,22
Average molecular weight: 180,75 g/mol

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance
Physical state: Liquid
Form: pasty
Colour: According to product designation
Odour: characteristic
flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*No data available*		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	*No data available*		
Decomposition temperature	*not applicable*		
Flash point	> 60 °C		② The product is not flammable.
Evaporation rate	*No data available*		
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	124 Pa	20 °C	② 50°C: 583,54 Pa (0,58 kPa)
Vapour density	*No data available*		
Density	1,611.8 kg/m³	20 °C	
Relative density	1.612	20 °C	
Bulk density	*not applicable*		
Water solubility	*No data available*		
Dynamic viscosity	*No data available*		

Parameter	Value	at °C	① Method ② Remark
Kinematic viscosity	*No data available*		
Viscosity	> 20.5 mm²/s	40 °C	
Self-ignition temperature	235 °C		

9.2. Other information
No data available

SECTION 10: Stability and reactivity

* **10.1. Reactivity**
No dangerous reactions are known under normal conditions of use.

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**
Heating may cause a fire or explosion. Protect from sunlight. Do no expose to temperatures exceeding 50 °C.

* **10.5. Incompatible materials**
Materials to avoid: Avoid strong acids, alkalis and bases. Avoid direct exposure to materials that promote combustion.

* **10.6. Hazardous decomposition products**
See sections 10.3, 10.4 and 10.5 for specific degradation products. Depending on the degradation conditions, complex mixtures of chemical substances may be released during degradation: Carbon dioxide (CO2), carbon monoxide and other organic compounds.

SECTION 11: Toxicological information

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

trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8
LD_{50} oral: 7,236 mg/kg (Rat)
LD_{50} dermal: 3,880 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (vapour): 11 mg/L 4 h
bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate CAS No.: 52829-07-9 EC No.: 258-207-9
LD_{50} oral: 3,700 mg/kg (Rat)
LD_{50} dermal: >3,170 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (vapour): >5 mg/L
LC_{50} Acute inhalation toxicity (dust/mist): 0.5 mg/L (Rat)

Acute oral toxicity:
Based on available data, the classification criteria are not met. It does not contain substances classified as dangerous if ingested. For further information see section 3.

Acute dermal toxicity:
Not classified Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Not classified Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous if inhaled.

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

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.
IARC: Ethanol

Reproductive toxicity:
Based on available data, the classification criteria are not met. However, it contains substances that are classified as hazardous with regard to this effect.

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.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
The product does not meet the criteria regarding its endocrine disrupting properties.

SECTION 12: Ecological information

* 12.1. Toxicity

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)
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)

* 12.2. Persistence and degradability

trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8
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

* 12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

* 12.5. Results of PBT and vPvB assessment

trimethoxyvinylsilane CAS No.: 2768-02-7 EC No.: 220-449-8
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: —

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

12.6. Endocrine disrupting properties
The product does not meet the criteria regarding its endocrine disrupting properties.

12.7. Other adverse effects
Water hazard class 1: slightly hazardous to water

SECTION 13: Disposal considerations

*
13.1. Waste treatment methods
Dispose of by the authorised waste manager in accordance with the recovery and disposal operations set out in Annex 1 and Annex 2 (Directive 2008/98/EC). According to codes 15 01 (2014/955/EC), if the container has been in direct contact with the product, treat it in the same way as the product itself, otherwise as if there were no hazardous residues. Do not allow to enter drains. See section 6.2.

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), the Community or national provisions regarding waste recovery shall be complied with. Community legislation: Directive 2008/98/EC, 2014/955/EC, Regulation (EU) No 1357/2014. National regulations: Act on the Reorganisation of the Recycling and Waste Management Law. Of 24 February 2012.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

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

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
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:

Substances for which authorisation in Regulation (CE) 1907/2006 (REACH) is pending: Not relevant. Substances included in REACH Annex XIV (authorisation list) and expiry date: Not relevant. Regulation (EC) 1005/2009 on ozone depleting substances Not relevant. Article 95, REGULATION (EU) No 528/2012: Not relevant. REGULATION (EU) No 649/2012 on the export and import of dangerous chemical substances: Not relevant.
Restrictions on the distribution and use of certain substances and hazardous mixtures (Annex XVII REACH, etc...):
Contains di-“isononyl” phthalate. (1) Shall not be used as substances or in mixtures in concentrations greater than 0,1 % by weight of the plasticized material in toys and childcare articles which can be placed in the mouth by children. (2) Such toys and childcare articles containing these phthalates in concentrations greater than 0.1% by weight of the plasticized material shall not be placed on the market. (4) For the purposes of this entry, the term “childcare article” means any article intended to facilitate sleep, relaxation, hygiene, feeding and sucking of children.
Shall not be used:
-in decorative articles intended to produce light or color effects (by phase change), e.g. in mood lamps and ashtrays;
-in joke games;
-in games for one or more participants or in products intended for use as such, including for decoration.

Contains dioctyltin oxide. Dioctyltin compounds (DOT) shall not be used in the articles listed below intended to be supplied to or used by the general public after January 1, 2012, if the concentration of tin in the article or parts thereof exceeds 0.1% by weight:
- Textile articles intended to come into contact with the skin - Gloves
- Shoes or parts thereof intended to come into contact with the skin
- Wall and floor coverings
- baby articles
- feminine hygiene articles
- Diapers
- Two-component room temperature vulcanization impression sets (RTV-2 impression sets).

Shall not be placed on the market or used as substances or in mixtures when acting as biocides in paints whose components are not chemically bound. Shall not be placed on the market or used as substances or in mixtures as biocides to prevent fouling by micro-organisms, plants or animals on: (a) all vessels, irrespective of their length, used on sea waterways, coastal and estuarine waterways, inland waterways and lakes (b) boxes, floats, nets and other equipment or devices for fish and shellfish farming (c) fully or partially submerged equipment or devices of any kind. May not be placed on the market or used as substances or in mixtures intended for the treatment of water in industrial, commercial and municipal applications. Occupational exposure to respirable crystalline silica must be controlled in accordance with Directive (EU) 2019/130.

Specific injunctions concerning personal and environmental protection: It is recommended that the information in this safety data sheet be used as input to data collected in a risk assessment of local conditions in order to take the necessary measures to prevent hazards for the management, use, storage and disposal of this product.

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: 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: 0.98 weight-%

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
2.3.	Other hazards
3.2.	Mixtures
4.1.	Description of first aid measures
4.2.	Most important symptoms and effects, both acute and delayed
5.1.	Extinguishing media
5.2.	Special hazards arising from the substance or mixture
5.3.	Advice for firefighters
5.4.	Additional information
6.1.	Personal precautions, protective equipment and emergency procedures
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
8.2.	Exposure controls
8.3.	Additional information
9.1.	Information on basic physical and chemical properties
10.1.	Reactivity
10.4.	Conditions to avoid
10.5.	Incompatible materials
10.6.	Hazardous decomposition products
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
13.1.	Waste treatment methods
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
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IARC	International Agency for Research on Cancer
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	
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361f	Suspected of damaging fertility.
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.

* Data changed compared with the previous version.