



MS 500

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Date of issue: 2021/03/13 Revision date: 2021/03/13 Version: 02.00

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

1.1. Product identifier

Product form : Mixture
Trade name : MS 500
Product code : 353/573
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Professional use, Industrial use
Industrial/Professional use spec : Sealants
Use of the substance/mixture : Construction
Function or use category : 55/999 Others

1.2.2. Uses advised against

Restrictions on use : Any other intended applications should be discussed with the manufacturer

1.3. Details of the supplier of the safety data sheet

Supplier

Bertec Bvba
Tulpenstraat 3
B- 9810 Nazareth

Tel.: +32(0)9 380 38 85 - info@bertec.be - www.bertec.be
Responsible for SDS: Bernard Verhaeghe - Tel.: +32(0)9 380 38 85 - Fax.: +32(0)9 380 18 23

1.4. Emergency telephone number

Emergency number : +32(0)70 245 245
Anti-poison Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

None known. Calculation method.

2.2. Label elements

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

EUH-statements : EUH208 - Contains Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate(1065336-91-5), N-(3-(trimethoxysilyl)propyl)ethylenediamine(1760-24-3). May produce an allergic reaction

2.3. Other hazards

Other hazards not contributing to the classification : May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trimethoxyvinylsilane	(CAS No) 2768-02-7 (EC no) 220-449-8 (REACH-no) 01-2119513215-52	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332

Full text of H-statements: see section 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

First-aid measures general	: No special measures required. Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove victim to fresh air.
First-aid measures after skin contact	: Wash with water and soap.
First-aid measures after eye contact	: Get medical advice/attention if you feel unwell. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Rinse mouth out with water. Consult a doctor/medical service.

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

Symptoms/injuries	: No significant signs or symptoms indicative of any health hazard are expected to occur.
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4.3. Indication of any immediate medical attention and special treatment needed

No significant symptoms are expected due to the non-classification of the product.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Non combustible. None under normal conditions.
Explosion hazard	: None known.
Reactivity in case of fire	: Evolution of fumes.
Hazardous decomposition products in case of fire	: None known.

5.3. Advice for firefighters

Precautionary measures fire	: Exposure to fire/heat: keep upwind. Wear suitable protective clothing and gloves. Use extinguishing media appropriate for surrounding fire.
Firefighting instructions	: No specific fire-fighting instructions required. Take account of environmentally hazardous firefighting water.
Protection during firefighting	: Approach from upwind. Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Avoid release to the environment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

General measures	: May be dangerously slippery if spilled.
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6.1.1. For non-emergency personnel

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

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

Prevent entry to sewers and public waters. Not in groundwater, surfacewater or sewerage.

6.3. Methods and material for containment and cleaning up

For containment	: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Methods for cleaning up	: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Wash down leftovers with plenty of water. Take up liquid spill into inert absorbent material, e.g.: dry sand/earth/vermiculite kieselguhr.
Other information	: No further information available.

6.4. Reference to other sections

Reference to other sections (8, 13). Information regarding safe handling, see section 7.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Additional hazards when processed	: None under normal use.
Precautions for safe handling	: Handle in accordance with good industrial hygiene and safety practice.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: None under normal use.
Storage conditions	: Keep container tightly closed and in a well-ventilated place. Keep container tightly closed to avoid moisture absorption and contamination.
Incompatible products	: Keep away from reducing agents/(strong) acids /(strong) bases.
Heat and ignition sources	: Protect from heat and direct sunlight.
Information on mixed storage	: Store away from strong oxidizers, strong bases, strong acids.
Storage area	: Keep in a cool, well-ventilated place. Keep out of direct sunlight. Meet the legal requirements.
Special rules on packaging	: correctly labelled.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

No additional information available

8.2. Exposure controls**Appropriate engineering controls:**

None necessary. Does not contain components with substance specific occupational exposure limits.

Personal protective equipment:

None under normal conditions. Body protection must be chosen based on level of activity and exposure. May produce an allergic reaction.

Materials for protective clothing:

None under normal conditions

Hand protection:

None under normal conditions. Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing

Eye protection:

None under normal conditions

Skin and body protection:

Body protection must be chosen based on level of activity and exposure

Respiratory protection:

None under normal conditions

Thermal hazard protection:

No special measures required.

Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations. Refer to all applicable national, international and local regulations or provisions.

Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	: Solid
Appearance	: Paste.
Colour	: (Read the technical data sheet).
Odour	: characteristic.
Odour threshold	: Not applicable
pH	: Not determined
pH solution	: Not determined
Relative evaporation rate (butylacetate=1)	: Not determined
Melting point	: Not determined
Freezing point	: Not determined
Boiling point	: > 34 °C
Flash point	: > 100 °C
Auto-ignition temperature	: 420 °C Auto-ignition temperature
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable Not self-igniting
Vapour pressure	: Not determined
Relative vapour density at 20 °C	: Not determined
Relative density	: Not determined
Density	: 1,43 g/cm ³
Solubility	: Practically not miscible.
Log Pow	: Not determined
Viscosity, kinematic	: Not determined
Viscosity, dynamic	: Not determined
Explosive properties	: Not determined. Not expected to present a significant hazard under anticipated conditions of normal use.
Oxidising properties	: Not applicable.
Lower explosive limit (LEL)	: Not determined
Upper explosive limit (UEL)	: Not determined

9.2. Other information

VOC content	: 2,65 % DIRECTIVE 2004/42/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products
Other properties	: If necessary, information on other physical and chemical parameters is indicated in this section.
Additional information	: No further information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Decomposes on exposure to temperature rise: release of irritant gases/vapours.

10.4. Conditions to avoid

Keep away from heat and direct sunlight.

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)

trimethoxyvinylsilane (2768-02-7)	
LD50 oral rat	7120 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value; 7236 mg/kg bodyweight; Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	3540 mg/kg
LC50 inhalation rat (ppm)	2773 ppm/4h (OECD 403 method)
LC50 inhalation rat (Vapours - mg/l/4h)	16,8 mg/l/4h

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not determined
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not determined
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: May cause an allergic skin reaction
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Potential adverse human health effects and symptoms	: None known. May cause sensitisation of susceptible persons.
Other information	: The product has not been tested. The statement has been derived from the properties of the individual components.

SECTION 12: Ecological information**12.1. Toxicity**

Ecology - general	: Avoid release to the environment.
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Not expected to create a significant environmental hazard, because of the small quantity of the material's sample.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

MS 500	
Additional information	The product has not been tested. The statement has been derived from the properties of the individual components.
trimethoxyvinylsilane (2768-02-7)	
LC50 fish 1	>= 100 Brachydanio rerio
LC50 fish 2	191 mg/l (LC50; 96 h; Oncorhynchus mykiss)
EC50 Daphnia 1	168,7 mg/l (EC50; EU Method C.2; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
EC50 other aquatic organisms 1	> 2500 ACTIVATED SLUDGE (bacteria)
EC50 72h algae (1)	> 957 mg/l Scenedesmus subspicatus
Threshold limit algae 2	210 mg/l (EC50; EPA 67014-73-0; 7 days; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

MS 500

Safety Data Sheet

Version: 01.00

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.2. Persistence and degradability

MS 500	
Persistence and degradability	Not established.
trimethoxyvinylsilane (2768-02-7)	
Persistence and degradability	Not readily biodegradable in water. Hydrolysis in water. No (test)data on mobility of the substance available. Photolysis in the air.
Biodegradation	51 % (OECD 301F method)

12.3. Bioaccumulative potential

MS 500	
Log Pow	Not determined
Bioaccumulative potential	Not established.
trimethoxyvinylsilane (2768-02-7)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

MS 500	
Mobility in soil	Not determined

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects	: No data available. The product has not been tested. The statement has been derived from the properties of the individual components.
Additional information	: No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of this material and its container at hazardous or special waste collection point.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment.
Additional information	: Comply with local regulations for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.
Ecology - waste materials	: When totally empty, containers are recyclable like any other packing.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

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

Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content	: 2,65 % DIRECTIVE 2004/42/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products
Other information, restriction and prohibition regulations	: No further information available. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

15.1.2. National regulations

Users should ensure that they comply with any relevant local, provincial or national legislation.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

SECTION 16: Other information

Indication of changes:

Report mixture CLP classification/labelling.

Abbreviations and acronyms:

ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
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
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LOAEL	Lowest Observed Adverse Effect Level
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
TLM	Median Tolerance Limit
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant

MS 500

Safety Data Sheet

Version: 01.00

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

vPvB	Very Persistent and Very Bioaccumulative
Data sources	: Manufacturer/Supplier. Authoring: . Quick.MSDS Sprl - Belgium info@quickmsds.de +32 (0) 479 469 465.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	: No further information available.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour
H332	Harmful if inhaled
EUH208	Contains . May produce an allergic reaction

MSDS EU (REACH Annex II)

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