

PANTERA Product GmbH
28197 Bremen / GERMANY

Date printed 26.11.2019, Revision 28.08.2019

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

1.1 Product identifier

MS-3000/40v2

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

PANTERA Product GmbH
Simon-Bolivar-Straße 29
28197 Bremen / GERMANY
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Address enquiries to

Technical information

info@panteraproduct.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body

GIZ-Nord; +49 (0)551 19 240

Company

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Irrit. 2: H315 Causes skin irritation.
Eye Dam. 1: H318 Causes serious eye damage.
Repr. 1B: H360FD May damage fertility. May damage the unborn child.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

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2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

DANGER

Contains:

3-(Trimethoxysilyl)propylamine

Dibutyltin dilaurate

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H360FD May damage fertility. May damage the unborn child.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER / doctor.

P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling

Restricted to professional users.

Product treated with preservatives C(M)IT/MIT (CAS: 55965-84-9).

UFI:

-

Special labelling

Contains: Dibutyltin dilaurate. EUH208 May produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards

Contact with moisture liberates Methanol.

Human health dangers

Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
3 - <5	3-(Trimethoxysilyl)propylamine CAS: 13822-56-5, EINECS/ELINCS: 237-511-5, Reg-No.: 01-2119510159-45-XXXX GHS/CLP: Eye Dam. 1: H318 - Skin Irrit. 2: H315
3 - <5	Trimethoxyvinylsilane CAS: 2768-02-7, EINECS/ELINCS: 220-449-8, Reg-No.: 01-2119513215-52-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332
1 - <2,5	Aminofunctional oligosiloxane. CAS: 749886-39-3, EINECS/ELINCS: Polymer GHS/CLP: Skin Corr. 1B: H314
0,25 - <0,5	Dibutyltin dilaurate CAS: 77-58-7, EINECS/ELINCS: 201-039-8, EU-INDEX: 050-030-00-3, Reg-No.: 01-2119496068-27-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - Skin Sens. 1: H317 - Repr. 1B: H360FD - Muta. 2: H341 - STOT SE 1: H370 - STOT RE 1: H372 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	Foam. Dry powder. Water spray jet. Carbon dioxide.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Keep in a cool place. Store in a dry place.

Protect from heat/overheating.

Protect from atmospheric moisture and water.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Dibutyltin dilaurate
CAS: 77-58-7, EINECS/ELINCS: 201-039-8, EU-INDEX: 050-030-00-3, Reg.No.: 01-2119496068-27-XXXX
Long-term exposure: 0,1 mg/m ³ , as Sn, Sk
Short-term exposure (15-minute): 0,2 mg/m ³

DNEL

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
Industrial, dermal, Long-term - systemic effects: 8,3 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 58 mg/m ³ .
general population, dermal, Long-term - systemic effects: 5 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 17 mg/m ³ .
general population, oral, Long-term - systemic effects: 5 mg/kg bw/day.
Dibutyltin dilaurate, CAS: 77-58-7
Industrial, dermal, Acute - systemic effects: 2.08 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 20 µg/m ³ .
Industrial, dermal, Long-term - systemic effects: 430 µg/kg bw/day.
general population, dermal, Long-term - systemic effects: 160 µg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 4.6 µg/m ³ .
general population, inhalative, Acute - systemic effects: 40 µg/m ³ .
general population, oral, Acute - systemic effects: 20 µg/kg bw/day.
general population, oral, Long-term - systemic effects: 3.1 µg/kg bw/day.
general population, dermal, Acute - systemic effects: 500 µg/kg bw/day.
Trimethoxyvinylsilane, CAS: 2768-02-7
Industrial, inhalative, Long-term - systemic effects: 27.6 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 3.9 mg/kg bw/day.
Industrial, inhalative, Acute - systemic effects: 260 mg/m ³ .
general population, oral, Long-term - systemic effects: 300 µg/kg bw/day.
general population, dermal, Long-term - systemic effects: 7.8 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 6.7 mg/m ³ .
general population, inhalative, Acute - systemic effects: 50 mg/m ³ .

PNEC

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
soil, 45 µg/kg soil dw.
sediment (seawater), 120 µg/kg sediment dw.
sediment (freshwater), 1,2 mg/kg sediment dw.
sewage treatment plants (STP), 13 mg/L.
seawater, 33 µg/L.
freshwater, 330 µg/L.
Dibutyltin dilaurate, CAS: 77-58-7
sewage treatment plants (STP), 100 mg/L.
seawater, 46,3 ng/L.

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freshwater, 463 ng/L.
Trimethoxyvinylsilane, CAS: 2768-02-7
sediment (seawater), 150 µg/kg.
sediment (freshwater), 1.5 mg/kg.
sewage treatment plants (STP), 6.6 mg/L.
seawater, 40 µg/L.
freshwater, 400 µg/L.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	>0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	clear
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,044 (DIN 52451)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	> 100

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9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

If product is heated above decomposition temperature toxic vapours may be released.
Reactions with strong oxidizing agents.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

not determined

10.6 Hazardous decomposition products

Contact with moisture liberates Methanol.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
ATE-mix, inhalativ (mist), > 20 mg/l (4 h).
Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LD50, dermal, Rabbit: 11,3 mL/kg bw.
LD50, oral, Rat: 2,97 mL/kg bw.
LC50, inhalative, Rat: 5 - 16 ppm (6h).
Dibutyltin dilaurate, CAS: 77-58-7
LD50, oral, Rat: 2071 mg/kg (OECD 401) Sarasin, G. 1981.
Trimethoxyvinylsilane, CAS: 2768-02-7
LD50, dermal, Rabbit: 3259 mg/kg bw.
LD50, inhalative, Rat: 16,8 mg/l (4 h) (OECD TG 403).
LD50, oral, Rat: 7120 mg/kg (OECD TG 401).
NOAEL, inhalative, Rat: 0,058 mg/l (98 d).
NOAEL, oral, Rat: < 62,5 mg/kg (28 d) (OECD TG 422).

Serious eye damage/irritation	Irritant
Skin corrosion/irritation	Irritant
Respiratory or skin sensitisation	May produce an allergic reaction.
Specific target organ toxicity — single exposure	The substance or mixture is not classified as specific target organ toxicant, single exposure.
Specific target organ toxicity — repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated
Mutagenicity	Based on available data, the classification criteria are not met. This product contains one or more substances of Muta. 2 (CLP). (CAS 77-58-7)
Reproduction toxicity	This product contains one or more substances of categorie Repr. 1B (CLP). (CAS 77-58-7) May damage fertility. May damage the unborn child.
Carcinogenicity	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
General remarks	

Toxicological data of complete product are not available.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Substance
3-(Trimethoxysilyl)propylamine, CAS: 13822-56-5
LC50, (96h), fish: 934 mg/L.
EC50, (72h), Algae: >603 - 1000 mg/L.
EC50, (48h), Daphnia magna: 331 mg/L.
Dibutyltin dilaurate, CAS: 77-58-7
EC50, Scenedesmus subspicatus: 1 mg/l.
EC50, Daphnia magna: 0,463 mg/l.
EC50, Brachidanio rerio: 3,1 mg/l.
Trimethoxyvinylsilane, CAS: 2768-02-7
LC50, (96h), Oncorhynchus mykiss: 191 mg/l.
EC50, Pseudokirchneriella subcapitata: 210 mg/l (7 d) (US-EPA).
EC50, (48h), Daphnia magna: 168,7 mg/l (92/69/EWG C.2).
EC10, Pseudomonas putida: 1000 mg/l (5 h).

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*
150102

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (2010/75/CE) 0 %

15.2 Chemical safety assessment

not applicable

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SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H410 Very toxic to aquatic life with long lasting effects.
 H400 Very toxic to aquatic life.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H370 Causes damage to organs.
 H341 Suspected of causing genetic defects.
 H360FD May damage fertility. May damage the unborn child.
 H317 May cause an allergic skin reaction.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H332 Harmful if inhaled.
 H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Repr. 1B: H360FD May damage fertility. May damage the unborn child. (Calculation method)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

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Modified position

SECTION 3 deleted: Organoalkoxysilane
SECTION 2 been added: 3-(Trimethoxysilyl)propylamine
SECTION 3 been added: 3-(Trimethoxysilyl)propylamine
SECTION 2 been added: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 2 been added: P310 Immediately call a POISON CENTER / doctor.
SECTION 2 deleted: P308+P313 IF exposed or concerned: Get medical advice / attention.
SECTION 2 been added: Product treated with preservatives [x].
SECTION 2 been added: H318 Causes serious eye damage.
SECTION 2 deleted: exclamation mark
SECTION 2 deleted: H319 Causes serious eye irritation.
SECTION 2 deleted: Eye Irrit. 2
SECTION 2 been added: Eye Dam. 1
SECTION 2 been added: corrosion
SECTION 2 been added: Contact with moisture liberates Methanol.
SECTION 7 been added: Protect from atmospheric moisture and water.
SECTION 8 been added: Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
SECTION 8 been added: Protective clothing (EN 340)
SECTION 8 been added: Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.
SECTION 8 deleted: Not required under normal conditions.
SECTION 10 been added: Contact with moisture liberates Methanol.
SECTION 10 deleted: No hazardous decomposition products known.
SECTION 12 deleted: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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