

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

MD-MS Polymer HT grey (Art.-Nr. MMS.HT.G)
MD-MS Polymer HT Black (Art.-Nr. MMS.HT.S)
MD-MS Polymer HT white (Art.-Nr. MMS.HT.W)

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 Marston Domsel GmbH
 Bergheimer Str. 15
 53909 Zülpich / GERMANY
 Phone +49 (0) 22 52 94 15 0
 Fax +49 (0) 22 52 17 44
 Homepage www.marston-domsel.de
 E-mail info@marston-domsel.de

Address enquiries to

Technical information info@marston-domsel.de
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

No classification.

2.2 Label elements

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

Hazard pictograms none**Signal word** none**Hazard statements** none**Precautionary statements** none**Special labelling** EUH210 Safety data sheet available on request.

Contains N-(3-(Trimethoxysilyl)propyl)ethylenediamine, Dioctylbis(pentane-2,4-dionato-O,O)tin. EUH208 May produce an allergic reaction.

2.3 Other hazards

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

**SECTION 3: Composition / Information on ingredients****Product-type:**

The product is a mixture.

Range [%]	Substance
1 - 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
0,1 - < 1	N-(3-(Trimethoxysilyl)propyl)ethylenediamine CAS: 1760-24-3, EINECS/ELINCS: 217-164-6 GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412
0,1 - < 1	Diocetylbis(pentane-2,4-dionato-O,O)tin CAS: 54068-28-9, EINECS/ELINCS: 483-270-6, Reg-No.: 01-0000020199-67-XXXX GHS/CLP: STOT SE 2: H371 - Skin Sens. 1: H317

Comment on component partsSubstances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.**SECTION 4: First aid measures****4.1 Description of first aid measures**

General information	Change soaked clothing.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
Skin contact	In case of contact with skin wash off immediately 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	Get medical advice. Do not induce vomiting. Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment neededTreat symptomatically.
Forward this sheet to the doctor.**SECTION 5: Fire-fighting measures****5.1 Extinguishing media**

Suitable extinguishing media	All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefightersUse self-contained breathing apparatus.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.
Ensure adequate ventilation.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Take up mechanically.
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

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

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.
Do not store together with oxidizing agents.
Protect from heat/overheating.
Protect from sun.
Keep in a well-ventilated place.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

**SECTION 8: Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X
Long-term exposure: 200 ppm, 266 mg/m ³ , Sk
Short-term exposure (15-minute): 250 ppm, 333 mg/m ³
Calcium carbonate
CAS: 471-34-1, EINECS/ELINCS: 207-439-9
Long-term exposure: 10 mg/m ³ , inhalable dust

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X
Eight hours: 200 ppm, 260 mg/m ³ , H

DNEL

Substance
Trimethoxyvinylsilane, CAS: 2768-02-7
Industrial, inhalative, Acute - systemic effects: 4,9 mg/m ³ .
Industrial, inhalative, Long-term - systemic effects: 4,9 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 0,69 mg/kg bw/d.
Industrial, dermal, Acute - systemic effects: 0,69 mg/kg bw/d.

PNEC

Substance
Trimethoxyvinylsilane, CAS: 2768-02-7
sewage treatment plants (STP), 110 mg/l.
seawater, 0,034 mg/l.
freshwater, 0,34 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm/ Butyl rubber, >120 min (EN 374-1/-2/-3).
Skin protection	not applicable
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	Breathing apparatus in the event of high concentrations.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	See SECTION 6+7.

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

Form	pasty
Color	various
Odor	characteristic
Odour threshold	not applicable
pH-value	~7
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	> 100°C (> 212°F)
Flammability (solid, gas) [°C]	> 440°C
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,53 - 1,56
Bulk density [kg/m ³]	not applicable
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	> 20,5 mm ² /S (40°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not applicable

9.2 Other information

No information available.

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

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoidSee SECTION 7.2.
Strong heating.**10.5 Incompatible materials**

No information available.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.:
dermal, Based on the available information, the classification criteria are not fulfilled.:
oral, Based on the available information, the classification criteria are not fulfilled.:
Substance
N-(3-(Trimethoxysilyl)propyl)ethylenediamine, CAS: 1760-24-3
LD50, dermal, Rat: 2009 mg/kg (OECD 402).
LD50, oral, Rat: 2413 mg/kg (OECD 401).
Trimethoxyvinylsilane, CAS: 2768-02-7
LD50, inhalative, Rat: 16,8 mg/l (4 h) (OECD TG 403).
LD50, dermal, Rabbit: 3540 mg/kg (RTECS).
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).
Diocylbis(pentane-2,4-dionato-O,O)tin, CAS: 54068-28-9
LD50, dermal, Rat: > 2000 mg/kg (Study Number TX 1027).
LD50, dermal, Rat: > 2000 mg/kg (OECD 402).
LD50, oral, Rat: 2500 mg/kg.

Serious eye damage/irritation	Toxicological data of complete product are not available. No classification. Calculation method
Skin corrosion/irritation	Toxicological data of complete product are not available. No classification. Calculation method
Respiratory or skin sensitisation	Toxicological data of complete product are not available. May produce an allergic reaction. Calculation method
Specific target organ toxicity — single exposure	Toxicological data of complete product are not available. No classification. Calculation method
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
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.

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

Product
Based on the available information, the classification criteria are not fulfilled.:
Substance
N-(3-(Trimethoxysilyl)propyl)ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio: 597 mg/l (Lit.).
EC50, (48h), Daphnia magna: 81 mg/l (Lit.).
IC50, (72h), Desmodemus subspicatus: 126 mg/l (Lit.).
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).
Diocetylbis(pentane-2,4-dionato-O,O)tin, CAS: 54068-28-9
EC50, (48h), Daphnia magna: 58,6 mg/l (OECD 202).
EC50, (96h), fish: 86 mg/l (OECD 203).
EC50, (24h), Scenedesmus subspicatus: 300 mg/l (OECD 201).

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required or not conducted.

12.6 Other adverse effects

The product is insoluble in water.
Ecological data of complete product are not available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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.

Waste no. (recommended) 080410

Contaminated packaging

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

Waste no. (recommended) 150102
150104

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

**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 (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people not applicable

- VOC (2010/75/CE) < 1,24 %

15.2 Chemical safety assessment

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

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H412 Harmful to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H371 May cause damage to organs. [Immune system; if swallowed]

H332 Harmful if inhaled.

H226 Flammable liquid and vapour.

**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
 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
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 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

Customs Tariff not determined

Classification procedure

Modified position none

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