Marston Domsel GmbH

53909 Zülpich



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

1.1 Product identifier

MD-MS Polymer grau (Art.-Nr. MMS.G)

MD-MS Polymer schwarz (Art.-Nr. MMS.S)

MD-MS Polymer weiß (Art.-Nr. MMS.W)

MD-MS Polymer blau Pool Flex (Art.-Nr. MMS.B)

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 informationinfo@marston-domsel.deSafety Data Sheetsdb@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 [REGULATION (EC) No 1272/2008]

No classification.

2.2 Label elements

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

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

Special labelling EUH210 Safety data sheet available on request.

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. Contains: N-(3-(Trimethoxysilyl)propyl)ethylenediamine, Trimethoxyvinylsilane. 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

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
0,1 - < 2,5	Titanium dioxide (<10µm)
	CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, EU-INDEX: 022-006-002
	GHS/CLP: Carc. 2: H351
1 - < 2,5	Trimethoxyvinylsilane
	CAS: 2768-02-7, EINECS/ELINCS: 220-449-8, EU-INDEX: 014-049-00-0, Reg-No.: 01-2119513215-52-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Skin Sens. 1B: H317
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

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.

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 contactRinse 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.

IngestionGet 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 needed

Treat symptomatically.

Forward this sheet to your 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 firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

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SECTION 6: Accidental release measures

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.

Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

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.

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



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance	
Titanium dioxide (<10µm)	
CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, EU-INDEX: 022-006-002	
Long-term exposure: 4 mg/m³, respirable; total inhalable: TWA=10 mg/m³	
Methanol	
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X	
Long-term exposure: 200 ppm, 266 mg/m³, Sk	
Short-term exposure (15-minute): 250 ppm, 333 mg/m³	
Calcium carbonate	
CAS: 471-34-1, EINECS/ELINCS: 207-439-9	
Long-term exposure: 10 mg/m³, 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/m³, H	

DNEL

Substance	
Trimethoxyvinylsilane, CAS: 2768-02-7	
Industrial, inhalative, Acute - systemic effects, 260 mg/m³	
Industrial, dermal, Long-term - systemic effects, 3,9 mg/kg bw/day	
Industrial, inhalative, Long-term - systemic effects, 27,6 mg/m³	
general population, oral, Long-term - systemic effects, 0,3 mg/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/m³	

PNEC

Substance	
Trimethoxyvinylsilane, CAS: 2768-02-7	
sediment (seawater), 0,15 mg/kg dw	
sediment (freshwater), 1,5 mg/kg dw	
seawater, 40 µg/L	
soil, 0.06 mg/kg dw	
freshwater, 400 μg/L	

Safety Data Sheet REACH(UK) (GB)

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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 Respiratory protection mask in the event of high concentrations.

See SECTION 6+7.

Thermal hazards not applicable

Delimitation and monitoring of the

SECTION 9: Physical and chemical properties

environmental exposition

•

9.1 Information on basic physical and chemical properties

Physical state pasty

solid

ColorvariousOdorcharacteristicOdour thresholdnot applicable

pH-value No information available.

pH-value [1%] not applicable

Boiling point [°C] No information available.

Flash point [°C] No information available.

Flammability (solid, gas) [°C] No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa] No information available.

Density [g/cm³] 1,5

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Solubility other solvents

Partition coefficient [n-octanol/water]

Kinematic viscosity

Relative vapour density

Evaporation speed

Melting point [°C]

Auto-ignition temperature

No information available.

No information available.

No information available.

No information available.

Decomposition temperature [°C] not applicable

Particle characteristics No information available.

9.2 Other information

No information available.

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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

Product can hydrolyse.

10.4 Conditions to avoid

See SECTION 7.2. Strong heating. Sensitive to moisture. Product can hydrolyse.

10.5 Incompatible materials

Strong acids. Strong bases.

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 oral toxicity

Product

LD50, oral, Rat, > 5000 mg/kg, OECD 425

Substance

N-(3-(Trimethoxysilyl)propyl)ethylenediamine, CAS: 1760-24-3

LD50, oral, Rat, 2413 mg/kg (OECD 401)

Trimethoxyvinylsilane, CAS: 2768-02-7

LD50, oral, Rat, 7120 mg/kg (OECD TG 401)

NOAEL, oral, Rat, < 62,5 mg/kg (28 d) (OECD TG 422)

Titanium dioxide (<10µm), CAS: 13463-67-7

LD50, oral, Rat, >5000 mg/kg (OECD 425)

NOAEL, oral, Rat, 3500 mg/kg/d (90d)

Acute dermal toxicity

Product

LC50, dermal, Rabbit, > 5000 mg/kg

Substance

N-(3-(Trimethoxysilyl)propyl)ethylenediamine, CAS: 1760-24-3

LD50, dermal, Rat, 2009 mg/kg (OECD 402)

Trimethoxyvinylsilane, CAS: 2768-02-7

LD50, dermal, Rabbit, 3259 mg/kg bw

Titanium dioxide (<10µm), CAS: 13463-67-7

LD50, dermal, Rabbit, >5000 mg/kg

Acute inhalational toxicity

Product

inhalative, Based on the available information, the classification criteria are not fulfilled.

Substance

Trimethoxyvinylsilane, CAS: 2768-02-7

LD50, inhalative, Rat, 16,8 mg/l (4 h) (OECD TG 403)

NOAEL, inhalative, Rat, 0,058 mg/l (98 d)

Titanium dioxide (<10µm), CAS: 13463-67-7

LC50, inhalative, Rat, >6,8 mg/l/4h

NOAEC, inhalative, Rat, 10 mg/m³ (90d)

Serious eye damage/irritation

Toxicological data of complete product are not available.

No classification.
Calculation method

Substance

Trimethoxyvinylsilane, CAS: 2768-02-7

Eye, Rabbit, OECD 405, 24h, non-irritating

Titanium dioxide (<10µm), CAS: 13463-67-7

no adverse effect observed



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Skin corrosion/irritation

Toxicological data of complete product are not available.

No classification. Calculation method

Product

cutan, Rabbit, negativ, OECD 404

Eye, Rabbit, negativ, OECD 405

Substance

Trimethoxyvinylsilane, CAS: 2768-02-7

dermal, Rabbit, 24h, non-irritating

Titanium dioxide (<10µm), CAS: 13463-67-7

no adverse effect observed

Respiratory or skin sensitisation

Toxicological data of complete product are not available.

May produce an allergic reaction.

On basis of test data

Product

dermal, mouse, negativ, OECD 429

Substance

Trimethoxyvinylsilane, CAS: 2768-02-7

dermal, ECHA, sensitising

Titanium dioxide (<10µm), CAS: 13463-67-7

no adverse effect observed

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.

Product

NOAEL, oral, Rat, 3500 mg/kg/d

NOAEC, inhalative, Rat, 10 mg/m³

Substance

Trimethoxyvinylsilane, CAS: 2768-02-7

NOAEL, inhalation (vapour), Rat, 0,058 mg/kg, OECD 413

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Product

mouse, negativ, OECD 474

Substance

Trimethoxyvinylsilane, CAS: 2768-02-7

in vitro, OECD 471, negativ

Titanium dioxide (<10µm), CAS: 13463-67-7

no adverse effect observed

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Product

www.chemiebuero.de, Phone +49 (0)941-646 353-0, 210601

mas00354 GB



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Rat, negativ, OECD 414

Substance

Trimethoxyvinylsilane, CAS: 2768-02-7

Rat, OECD 422, negativ

Titanium dioxide (<10µm), CAS: 13463-67-7

NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased 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), Desmodesmus 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)

Titanium dioxide (<10µm), CAS: 13463-67-7

LC50, (48h), Daphnia magna, > 100 mg/l (OECD 202)

LC50, (96h), Oncorhynchus mykiss, > 100 mg/l (OECD 203)

LC50, (96h), Pimephales promelas, > 1000 mg/l

EC50, (72h), Pseudokirchneriella subcapitata, 16 mg/l

NOEC, (28d), Bacteria, >100000 mg/kg (ASTM 1706)

12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

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.

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12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

No information available.

12.7 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 or ID 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 NOT CLASSIFIED AS "DANGEROUS GOODS"

IMDG

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

Safety Data Sheet REACH(UK) (GB)

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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

no

Inland navigation (ADN)

Marine transport in accordance with no

IMDG

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

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

- Observe employment restrictions

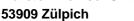
for people

not applicable

- VOC (2010/75/CE) 0 %

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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 3)

H332 Harmful if inhaled.

H226 Flammable liquid and vapour. H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction. 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

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

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

IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

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

 $\label{eq:two_two_two_two_two_two} TLV @/TWA = Threshold limit value - time-weighted average \\ TLV @/STEL = Threshold limit value - short-time exposure limit \\ value - short-time exposure limit \\ Value - Stort-time exposure limit \\ Value - Stor$

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Customs Tariff not determined

Classification procedure

Modified position SECTION 2 been added: EUH212 Warning! Hazardous respirable dust may be formed when

used. Do not breathe dust.

SECTION 15 been added: 2, conf. AwSV, 18.04.2017 SECTION 15 deleted: 1, conf. AwSV, 18.04.2017



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