

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****MD-SIL schwarz+transparent**
Article number MSI.T.K300; MSI.S.K300;**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Sealing material

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 0 22 52 / 94 15 - 0 Fax 0 22 52 / 17 44 Homepage www.marston-domsel.de E-mail info@marston-domsel.de
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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)
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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

No classification.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with EC-directives.

Labelling according to Regulation (EC) 1272/2008

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

2.3 Other hazards

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:**

The product is a mixture.

Range [%]	Substance
1 - < 5	Propyltriacetoxysilane
	CAS: 17865-07-5, EINECS/ELINCS: 241-816-9, ECB-Nr.: 01-2119966899-07-XXXX
	GHS/CLP: Skin Corr. 1B: H314
	EEC: C, R 34
1 - < 5	Triacetoxymethylsilane
	CAS: 4253-34-3, EINECS/ELINCS: 224-221-9, ECB-Nr.: 01-2119962266-32-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314
	EEC: C, R 22-14-34

Comment on component partsSubstances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Change soaked clothing.

InhalationEnsure supply of fresh air.
In the event of symptoms seek for 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.

IngestionIf eye irritation persists: Get medical advice/attention.
Seek medical advice immediately.
Rinse out mouth and give plenty of water to drink.
Induce vomiting if patient is conscious, seek medical advice.**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**Foam.
Dry powder.
Sand.
Water spray jet.**Extinguishing media that must not be used**

Full water jet.

5.2 Special hazards arising from the substance or mixtureRisk of formation of toxic pyrolysis products.
Carbon monoxide (CO).
Not combusted hydrocarbons.**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.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

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.

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

Wash hands before breaks and after work.

Use barrier skin cream.

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Prevent penetration into the ground.

Keep only in original container.

Do not store together with oxidizing agents.

Do not store with alkalies.

Keep container 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****Ingredients with occupational exposure limits to be monitored (GB)****8.1 Control parameters**

not applicable

DNEL

Range [%]	Substance
1 - < 5	Triacetoxymethylsilane, CAS: 4253-34-3
	Industrial, dermal, Acute - systemic effects: 14,5 mg/kg bw/d.
	Industrial, inhalative, Acute - local effects: 31 mg/m ³ .
	Industrial, inhalative, Long-term - systemic effects: 25 mg/m ³ .
	Industrial, inhalative, Acute - systemic effects: 25 mg/m ³ .
	Industrial, inhalative, Long-term - local effects: 31 mg/m ³ .
	Industrial, dermal, Long-term - systemic effects: 14,5 mg/kg bw/d.
	general population, oral, Long-term - systemic effects: 1 mg/kg bw/d.
	general population, dermal, Acute - systemic effects: 7,2 mg/kg bw/d.
	general population, oral, Acute - systemic effects: 1 mg/kg bw/d.
	general population, inhalative, Acute - local effects: 5,1 mg/m ³ .
	general population, inhalative, Long-term - local effects: 5,1 mg/m ³ .
	general population, inhalative, Acute - systemic effects: 6,3 mg/m ³ .
	general population, inhalative, Long-term - systemic effects: 6,3 mg/m ³ .
	general population, dermal, Long-term - systemic effects: 7,2 mg/kg bw/d.
1 - < 5	Propyltriacetoxysilane, CAS: 17865-07-5
	Industrial, inhalative, Long-term - systemic effects: 85,39 mg/m ³ .
	Industrial, dermal, Long-term - systemic effects: 12,11 mg/kg bw/d.
	general population, oral, Long-term - systemic effects: 6,05 mg/kg bw/d.
	general population, inhalative, Long-term - systemic effects: 21,06 mg/m ³ .
	general population, dermal, Long-term - systemic effects: 6,05 mg/kg bw/d.

PNEC

Range [%]	Substance
1 - < 5	Triacetoxymethylsilane, CAS: 4253-34-3
	soil, 0,145 mg/l.
	seawater, 0,1 mg/l.
	freshwater, 1,0 mg/l.
	sediment (seawater), 0,34 mg/kg.
	sediment (freshwater), 3,4 mg/kg.
	sewage treatment plants (STP), 10 mg/l.
1 - < 5	Propyltriacetoxysilane, CAS: 17865-07-5
	soil, 0,00336 mg/l.
	seawater, 0,002441 mg/l.
	freshwater, 0,02441 mg/l.
	sewage treatment plants (STP), 10,55 mg/l.

**8.2 Exposure controls**

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374). In splash contact Nitrile rubber, >480 min (EN 374).
Skin protection	not applicable
Other	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	not determined

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

Form	pasty
Color	various
Odor	pungent
Odour threshold	not determined
pH-value	acidic
pH-value [1%]	not determined
Boiling point [°C]	> 300
Flash point [°C]	> 100
Flammability [°C]	200
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	10 (20°C)
Density [g/ml]	0,97 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not applicable
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**

See SECTION 10.3.

**10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 7

10.6 Hazardous decomposition products

Irritant gases/vapours.

Acetic acid.

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

Range [%]	Substance
1 - < 5	Triacetoxymethylsilane, CAS: 4253-34-3
	LD50, oral, Rat: 1600 mg/kg.
1 - < 5	Propyltriacetoxysilane, CAS: 17865-07-5
	LD50, oral, Human: 1460 mg/kg (Lit.).

Serious eye damage/irritation	Non-irritant.
Skin corrosion/irritation	Non-irritant.
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

Labelling on the basis of our own findings.

SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
1 - < 5	Propyltriacetoxysilane, CAS: 17865-07-5
	LC50, (96h), Brachidanio rerio: 251 mg/l (Lit.).
	EC50, (48h), Daphnia magna: 62 mg/l (Lit.).
	IC50, (72h), Scenedesmus subspicatus: 73 mg/l (Lit.).

12.2 Persistence and degradability

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

**12.3 Bioaccumulative potential**

No information available.

12.4 Mobility in soil

No information available.

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.

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

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

080410

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)150101
150102**SECTION 14: Transport information****14.1 UN number**

See SECTION 14.2 in accordance with UN shipping name

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)**

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
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 (1999/13/CE)	0%

15.2 Chemical safety assessment

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

SECTION 16: Other information**16.1 R-phrases (SECTION 3)**

R 34: Causes burns.
R 22: Harmful if swallowed.
R 14: Reacts violently with water.

16.2 Hazard statements (SECTION 3)

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

16.3 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



16.4 Other information

Customs Tariff

not determined

Classification procedure

Modified position

SECTION 15 been added: EUH210 Safety data sheet available on request.
SECTION 4 been added: If eye irritation persists: Get medical advice/attention.
SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 7 been added: Take off contaminated clothing and wash before reuse.
SECTION 7 been added: Contaminated work clothing should not be allowed out of the workplace.
SECTION 7 been added: Do not eat, drink or smoke when using this product.
SECTION 11 been added: Labelling on the basis of our own findings.
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