

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

1.1 Product identifier

MD-SIL Automatik rot Article number: MSI.R.NK200 UFI: UE6W-A9YQ-C00X-ESKT

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.

Marston Domsel GmbH Bergheimer Str. 15 53909 Zülpich / GERMANY Phone +49 (0) 22 52 94 15 0 Fax +49 (0) 22 52 17 44

1.3 Details of the supplier of the safety data sheet

Company

	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
Emergency telephone number	

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aerosol 3: H229 Pressurised container: May burst if heated. Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

1.4

2.3

	The product is required to be labelled in accordance with regulation CLP.
Hazard pictograms	
Signal word	WARNING
Hazard statements	H229 Pressurised container: May burst if heated. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P251 Do not pierce or burn, even after use. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F. P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions. P273 Avoid release to the environment. P501 Dispose of contents/container to approved disposal company or municipal collection point.
3 Other hazards	

Other hazards

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

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SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	%] Substance	
1 - 2,5	5 Triacetoxy(methyl)silane	
	CAS: 4253-34-3, EINECS/ELINCS: 224-221-9, Reg-No.: 01-2119962266-32-XXXX	
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - EUH014	
1 - 2,5	1 - 2,5 Propyltriacetoxysilane	
	CAS: 17865-07-5, EINECS/ELINCS: 241-816-9, Reg-No.: 01-2119966899-07-XXXX	
	GHS/CLP: Skin Corr. 1B: H314 - EUH071	
0,1 - < 0,1	< 0,1 Octamethylcyclotetrasiloxane	
	CAS: 556-67-2, EINECS/ELINCS: 209-136-7, EU-INDEX: 014-018-00-1, Reg-No.: 01-2119529238-36-XXXX	
	GHS/CLP: Repr. 2: H361f - Aquatic Chronic 1: H410, M-Factor (chronic): 10	
Comment on com		
	For full text of H-statements: see SECTION 16.	
SECTION 4: First aid measures		

4.1 Description of first aid measures

+. 1	Description of first and measures	asures	
	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 with warm 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	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Seek medical advice.	

Most important symptoms and effects, both acute and delayed 4.2

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

5.2 Special hazards arising from the substance or mixture

Carbon dioxide (CO2) Nitrogen oxides (NOx). Not combusted hydrocarbons. Bursting aerosols can be forcibly projected from a fire. 53909 Zülpich

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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. Heat causes increase in pressure and risk of bursting - Keep away from the container. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Use personal protective equipment. 6.2 Environmental precautions Do not discharge into the drains/surface waters/groundwater. Methods and material for containment and cleaning up 6.3 Take up mechanically. Take up residues with absorbent material (e.g. acid binder). Dispose of absorbed material in accordance within the regulations. 64 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. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. 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 Keep only in original container. Do not store together with oxidizing agents. Protect from heat/overheating and from sun. Keep in a cool place, heat causes increase in pressure and risk of bursting. Keep container in a well-ventilated place. Specific end use(s) 7.3 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
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Long-term exposure: 10 ppm, 25 mg/m ³
Short-term exposure (15-minute): 15 ppm, 37 mg/m ³

Ingredients with occupational

exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Eight hours: 10 ppm, 25 mg/m ³
Short-term (15-minute): 20 ppm, 50 mg/m ³

DNEL

Substance	
Triacetoxy((methyl)silane, CAS: 4253-34-3
Industrial, i	inhalative, Acute - local effects, 61 mg/m ³
Industrial, i	nhalative, Long-term - local effects, 31 mg/m ³
general pop	pulation, inhalative, Long-term - local effects, 31 mg/m ³
general pop	pulation, inhalative, Acute - local effects, 61 mg/m ³
Propyltriace	etoxysilane, CAS: 17865-07-5
Industrial, o	dermal, Long-term - systemic effects, 12,11 mg/kg bw/d
Industrial, i	inhalative, Long-term - systemic effects, 85,39 mg/m ³
general pop	pulation, oral, Long-term - systemic effects, 6,05 mg/kg bw/d
general pop	pulation, dermal, Long-term - systemic effects, 6,05 mg/kg bw/d
general pop	pulation, inhalative, Long-term - systemic effects, 21,06 mg/m ³
Octamethy	Icyclotetrasiloxane, CAS: 556-67-2
Industrial, i	nhalative, Long-term - local effects, 73 mg/m ³
Industrial, i	nhalative, Long-term - systemic effects, 73 mg/m ³
general pop	pulation, oral, Long-term - systemic effects, 3,7 mg/kg bw/day
general pop	pulation, inhalative, Long-term - local effects, 13 mg/m ³
general por	pulation, inhalative, Long-term - systemic effects, 13 mg/m ³

PNEC

Substance
riacetoxy(methyl)silane, CAS: 4253-34-3
ediment (freshwater), 4,8 mg/kg sediment dw
ediment (seawater), 480 μg/kg sediment dw
oil, 190 μg/kg soil dw
sewage treatment plants (STP), 6.9 mg/L
Propyltriacetoxysilane, CAS: 17865-07-5
ediment (freshwater), 14,57 μg/kg
ewage treatment plants (STP), 10,55 mg/l
reshwater, 0,02441 mg/l



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seawater, 0,002441 mg/l
sediment (seawater), 1.457 µg/kg
sediment (seawater), 1,457 µg/kg
soil, 0,00336 mg/l
Octamethylcyclotetrasiloxane, CAS: 556-67-2
oral (food), 41 mg/kg food
freshwater, 1,5 µg/L
seawater, 0,15 µg/L
sewage treatment plants (STP), 10 mg/l
sediment (freshwater), 3 mg/kg sediment dw
sediment (seawater), 0,3 mg/kg sediment dw
soil, 0,54 mg/kg soil dw

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: ≥ 0,5mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	not applicable
Other	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. Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions. Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter P2. (DIN EN 143)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

information on basic physical and	i chemicai properties
Physical state	pasty Press-Pack
Color	red
Odor	characteristic
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	No information available.
Flash point [°C]	not applicable
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]	1,08 (20 °C / 68,0 °F)
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	No information available.
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature	No information available.
Decomposition temperature [°C]	not applicable
Particle characteristics	No information available.
Other information	

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

Reactions with strong oxidizing agents. Risk of bursting.

10.4 Conditions to avoid

Avoid temperatures above 50°C. Strong heating.



10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Acetic acid.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product ATE-mix, oral, > 2000 mg/kg bw

Substance
Triacetoxy(methyl)silane, CAS: 4253-34-3
LD50, oral, Rat, 1600 mg/kg, OECD 401
Propyltriacetoxysilane, CAS: 17865-07-5
LD50, oral, Human, 1460 mg/kg (Lit.)
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LD50, oral, Rat, >4800 mg/kg bw, OECD 401

Acute dermal toxicity

Substance
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LD50, dermal, Rat, >2375 mg/kg bw, OECD 402

Acute inhalational toxicity

Substance
Octamethylcyclotetrasiloxane, CAS: 556-67-2
LC50, inhalative, Rat, 36 mg/l air, OECD 403

Serious eye damage/irritation

Non-irritant (rabbit). On basis of test data

Product

Eye, Rabbit, non-irritating

Substance

Substance		
Triacetoxy(methyl)silane, CAS: 4253-34-3		
Rabbit, OECD 404, corrosive		

Skin corrosion/irritation

Non-irritant (rabbit). On basis of test data

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Product
dermal, Rabbit, negativ
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Respiratory or skin sensitisation	Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	
Specific target organ toxicity — single exposure		
Specific target organ toxicity — repeated exposure		
Substance		
Octamethylcyclote	etrasiloxane, CAS: 556-67-2	
NOAEL, dermal, F	Rabbit, 960 mg/kg bw/day	
NOAEC, inhalativ	e, Rat, 1820 mg/m ³	

Based on available data, the classification criteria are not met.

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Information on o Endocrine disrupti Other information		No information available.
information on o	other nazards	
In fam	de en le encende	
		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.
General remarks		
Aspiration hazard		Based on available data, the classification criteria are not met.
	NOAEC, inhalative,	Rat, 8492 mg/m ³
	Octamethylcyclotet	rasiloxane, CAS: 556-67-2
	Substance	
Carcinogenicity		Based on available data, the classification criteria are not met.
	NOAEC, inhalative,	Rat, 3640 mg/m ³ (Effect on fertility)
		Rabbit, 6066 mg/m ³ (Effect on developmental toxicity)
	Octamethylcycloteti	rasiloxane, CAS: 556-67-2
	Substance	
Reproduction toxic	city	Based on available data, the classification criteria are not met.
	Ames-test, negativ	
		illane, CAS: 4253-34-3
	Carcinogenicity Aspiration hazard	Octamethylcyclotet NOAEC, inhalative, NOAEC, inhalative, Carcinogenicity Substance Octamethylcyclotet NOAEC, inhalative, Aspiration hazard

12.1 Toxicity

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

ubstance
riacetoxy(methyl)silane, CAS: 4253-34-3
C50, (96h), fish, 79 - 500 mg/L
C50, (72h), Algae, 24,41 - 1562,5 mg/L
C50, (48h), Invertebrates, 65 - 500 mg/L
ropyltriacetoxysilane, CAS: 17865-07-5
C50, (96h), Brachidanio rerio, 251 mg/l (Lit.)
C50, (48h), Daphnia magna, 62 mg/l (Lit.)
C50, (72h), Scenedesmus subspicatus, 73 mg/l (Lit.)
Octamethylcyclotetrasiloxane, CAS: 556-67-2
C50, (96h), Oncorhynchus mykiss, > 22 μg/l
C50, (48h), Daphnia magna, > 15 μg/l
rC50, (96h), Pseudokirchneriella subcapitata, > 22 μg/l

Product



12.2 Persistence and degradability

Behaviour in environment
compartmentsnot applicableBehaviour in sewage plantnot applicableBiological degradabilitynot applicable

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Ecological data of complete product are not available. No classification on the basis of the calculation procedure of the preparation directive.

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 disposal contractor/authorities if necessary.	
	Waste no. (recommended)	070217 160504* gases in pressure containers (including halons) containing dangerous substances	
Contaminated packaging			
		Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.	
	Waste no. (recommended)	150102 150104	
SEC	SECTION 14: Transport information		
14.1	4.1 UN number or ID number		
	Transport by land according to ADR/RID	1950	
	Inland navigation (ADN)	1950	
	Marine transport in accordance with IMDG	1950	
	Air transport in accordance with IATA	1950	



14.2	UN proper shipping name	
	Transport by land according to ADR/RID	Aerosols
	- Classification Code	5A
	- Label	~
	- ADR LQ	11
	- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 3 (E)
	Inland navigation (ADN)	Aerosols
	- Classification Code	5A
	- Label	
	Marine transport in accordance with IMDG	Aerosols
	- EMS	F-D, S-U
	- Label	~
	- IMDG LQ	11
	Air transport in accordance with IATA	Aerosols, non flammable
	- Label	
14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	2
	Inland navigation (ADN)	2
	Marine transport in accordance with IMDG	2.2
	Air transport in accordance with IATA	2.2
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
446	Special pressutions for user	

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

No information available.

SECTION 15: Regulatory information			
15.1	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); UK REACH; GB CLP.
	- Observe employment restrictions for people	Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.
	- VOC (2010/75/CE)	0 % (CH)/ 2,5% (EU)
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)

H410 Very toxic to aquatic life with long lasting effects. H361f Suspected of damaging fertility. EUH014 Reacts violently with water. H302 Harmful if swallowed. EUH071 Corrosive to the respiratory tract. H314 Causes severe skin burns and eye damage. Safety Data Sheet (UK REACH) (GB)

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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

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 Customs Tariff

Modified position

Classification procedure

not determined

Aerosol 3: H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols") Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method) SECTION 3 been added: Octamethylcyclotetrasiloxane

SECTION 3 deleted: trans-1,3,3,3-Tetrafluoroprop-1-ene

SECTION 2 been added: P501 Dispose of contents/container to approved disposal company or municipal collection point.

SECTION 2 deleted: EUH210 Safety data sheet available on request.

SECTION 2 been added: P273 Avoid release to the environment.

SECTION 2 been added: H412 Harmful to aquatic life with long lasting effects.

SECTION 2 been added: Aquatic Chronic 3

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