# **Marston Domsel GmbH**

53909 Zülpich



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 1 / 11

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

#### 1.1 Product identifier

MD-SIL Automatik schwarz, transparent, Automatikkartusche Article number: MSI.S.NK200; MSI.T.NK200; MSI.A.NK200

#### 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 +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 [REGULATION (EC) No 1272/2008]

Aerosol 3: H229 Pressurised container: May burst if heated.

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 WARNING

**Hazard statements** H229 Pressurised container: May burst if heated.

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  $^{\circ}\text{C}$  / 122  $^{\circ}\text{F}.$ 

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.

EUH210 Safety data sheet available on request.

2.3 Other hazards

Special labelling

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

# **SECTION 3: Composition / Information on ingredients**

#### 3.1 Substances

The product is a mixture.

# Marston Domsel GmbH

53909 Zülpich



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 2 / 11

#### 3.2 Mixtures

Range [%]	Substance		
1 - 2,5	1 - 2,5 trans-1,3,3,3-Tetrafluoroprop-1-ene		
	CAS: 29118-24-9, EINECS/ELINCS: 471-480-0, Reg-No.: 01-0000019758-54		
	GHS/CLP: Press. Gas (Compressed gas): H280		
1 - 2,5	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		
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		

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 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. Rinse out mouth and give plenty of water to drink.

Do not induce vomiting. 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 needed

Treat symptomatically.

Forward this sheet to the doctor.

#### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media Water spray jet.

Dry powder.

Extinguishing media that must not

be used

Ingestion

Full water jet.

#### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO). Nitrogen oxides (NOx).

Bursting aerosols can be forcibly projected from a fire.

# 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Do not inhale explosion and/or combustion gases.

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.

# Marston Domsel GmbH



Marston-Domsel

Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 3 / 11

### **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.

Take up residues with absorbent material (e.g. acid binder). 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.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50  $^{\circ}\text{C}.$ 

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.

Keep in a cool place, heat causes increase in pressure and risk of bursting.

Keep container in a well-ventilated place.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

# Marston Domsel GmbH 53909 Zülpich



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 4 / 11

# SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Amorphus Silica

CAS: 112945-52-5, EINECS/ELINCS: 231-545-4, Reg-No.: 01-21193379499-16-XXXX

Long-term exposure: 6 mg/m³, total inhalable dust

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<sup>3</sup>

Short-term exposure (15-minute): 15 ppm, 37 mg/m<sup>3</sup>

# 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/m3

Short-term (15-minute): 20 ppm, 50 mg/m<sup>3</sup>

#### DNEL

Substance

Triacetoxy(methyl)silane, CAS: 4253-34-3

Industrial, inhalative, Acute - local effects: 31 mg/m³.

Industrial, inhalative, Long-term - local effects: 31 mg/m³.

general population, inhalative, Long-term - local effects: 5,1 mg/m³.

general population, inhalative, Acute - local effects: 5 mg/m<sup>3</sup>.

Propyltriacetoxysilane, CAS: 17865-07-5

Industrial, dermal, Long-term - systemic effects: 12,11 mg/kg bw/d.

Industrial, inhalative, Long-term - systemic effects: 85,39 mg/m<sup>3</sup>.

general population, oral, Long-term - systemic effects: 6,05 mg/kg bw/d.

general population, dermal, Long-term - systemic effects: 6,05 mg/kg bw/d.

general population, inhalative, Long-term - systemic effects: 21,06 mg/m³.

trans-1,3,3,3-Tetrafluoroprop-1-ene, CAS: 29118-24-9

Industrial, inhalative (gas), Long-term - systemic effects: 3 902 mg/m³ (AF=3)

general population, inhalative (gas), Long-term - systemic effects: 830 mg/m³ (AF=5).

#### **PNEC**

Su	bst	tan	се

Triacetoxy(methyl)silane, 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), 6.9 mg/L

Propyltriacetoxysilane, CAS: 17865-07-5

sediment (seawater), 1,457 µg/kg.

sediment (freshwater), 14,57 µg/kg.

sediment (seawater), 1.457 µg/kg.

## Safety Data Sheet 1907/2006/EC - REACH (GB)

# -SIL Automatik schwarz, transparent, Automatikkartusche Article number M

# Marston Domsel GmbH

53909 Zülpich



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 5 / 11

soil, 0,00336 mg/l

seawater, 0,002441 mg/l.

freshwater, 0,02441 mg/l.

sewage treatment plants (STP), 10,55 mg/l.

trans-1,3,3,3-Tetrafluoroprop-1-ene, CAS: 29118-24-9

freshwater, 0,1 mg/l (AF=1000).

#### 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.

# **Marston Domsel GmbH**

53909 Zülpich

**Form** 



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 6 / 11

# **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

pasty

Press-Pack

various Color Odor characteristic Odour threshold not applicable pH-value not applicable pH-value [1%] not applicable

Boiling point [°C] >100

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/ml] 1,02 (20 °C / 68,0 °F) Bulk density [kg/m³] not applicable

Solubility in water insoluble

Partition coefficient [n-octanol/water] No information available. **Viscosity** No information available. Relative vapour density determined

in air

No information available.

No information available. **Evaporation speed** Melting point [°C] No information available. Autoignition temperature [°C] No information available.

Decomposition temperature [°C] not applicable

#### 9.2 Other information

No information available.

# SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Risk of bursting.

# 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

# 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

## 10.4 Conditions to avoid

See SECTION 7.2.

Strong heating.

Avoid temperatures above 50°C.

### 10.5 Incompatible materials

No information available.

# Marston Domsel GmbH





Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 7 / 11

#### 10.6 Hazardous decomposition products

Acetic acid.

# SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity** 

Product

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

Substance

Triacetoxy(methyl)silane, CAS: 4253-34-3

LD50, oral, Rat: 1600 mg/kg.

Propyltriacetoxysilane, CAS: 17865-07-5

LD50, oral, Human: 1460 mg/kg (Lit.).

trans-1,3,3,3-Tetrafluoroprop-1-ene, CAS: 29118-24-9

LC50, inhalativ (gas), Rat: > 20700 ppm/4h.

Serious eye damage/irritation Non-irritant (rabbit).

On basis of test data

**Skin corrosion/irritation** Non-irritant (rabbit).

On basis of test data

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

Specific target organ toxicity —

single exposure

Specific target organ toxicity —

repeated exposure

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

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

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

Reproduction toxicity

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

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.

#### SECTION 12: Ecological information

# 12.1 Toxicity

Produc	1
--------	---

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

Substance

Triacetoxy(methyl)silane, CAS: 4253-34-3

LC50, (96h), fish: > 500 mg/L.

EC50, (72h), Algae: > 500 mg/L.

EC50, (48h), Invertebrates: > 500 mg/L.

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.).

trans-1,3,3,3-Tetrafluoroprop-1-ene, CAS: 29118-24-9

LC50, (96h), fish: > 117 mg/l.

# Marston Domsel GmbH

53909 Zülpich



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 8 / 11

#### 12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

not applicable

Behaviour in sewage plant 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

No information available.

### 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 disposal contractor/authorities if necessary.

Waste no. (recommended)

160505 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)

150102 150104 150110\*

# **SECTION 14: Transport information**

### 14.1 UN number

Transport by land according to

1950

ADR/RID

Inland navigation (ADN) 1950

Marine transport in accordance with

1950

IMDG

Air transport in accordance with IATA 1950

# Marston Domsel GmbH

53909 Zülpich



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 9 / 11

# 14.2 UN proper shipping name

Transport by land according to ADR/RID

- Classification Code

- Label

5A

Aerosols

- ADR LQ

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

- Classification Code

- Label

Aerosols

Marine transport in accordance with

**IMDG** 

**- EMS** F-D, S-U

- Label

- IMDG LQ 1

Air transport in accordance with IATA Aerosols, non flammable

- Label

### 14.3 Transport hazard class(es)

Transport by land according to 2

ADR/RID

Inland navigation (ADN) 2

Marine transport in accordance with 2.2

**IMDG** 

Air transport in accordance with IATA 2.2

14.4 Packing group

Transport by land according to not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

**IMDG** 

Air transport in accordance with IATA not applicable

# Marston Domsel GmbH 53909 Zülpich



Date printed 06.08.2020, Revision 06.08.2020

Version 07. Supersedes version: 06

Page 10 / 11

#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN)

Marine transport in accordance with

**IMDG** 

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

No information available.

# **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) 2015/830; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2020)

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

- Observe employment restrictions

for people

not applicable

- VOC (2010/75/CE) not determined

### 15.2 Chemical safety assessment

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

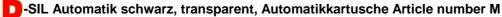
#### **SECTION 16: Other information**

# 16.1 Hazard statements (SECTION 03)

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.



# Marston Domsel GmbH

53909 Zülpich

Version 07. Supersedes version: 06

Page 11 / 11

**Marston-Domsel** 

#### 16.2 Abbreviations and acronyms:

Date printed 06.08.2020, Revision 06.08.2020

ADR = Accord européen relatif au transport international des marchandises Dangereuses par

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

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

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 Aerosol 3: H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols")

Modified position SECTION 3 been added: trans-1,3,3,3-Tetrafluoroprop-1-ene

Copyright: Chemiebüro®