

Article number 5570271

Service Best B.V.

5503 LM Veldhoven/ the Netherlands

Date printed 25.03.2019, Revision 06.02.2018

Version 05. Supersedes version: 04

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

Womi Silicone sealer red

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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	Service Best B.V. De Run 4271 5503 LM Veldhoven/ the Netherlands Phone +31(0)40 230 2300 Fax +31 (0)40 230 2302 Homepage E-mail info@servicebest.com
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Address enquiries to

Technical information	info@servicebest.com
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Safety Data Sheet	sdb@chemiebuero.de
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1.4 Emergency telephone number

Advisory body	+31 (0) 30 2748888
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Company	
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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
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Signal word	WARNING
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Hazard statements	H229 Pressurised container: May burst if heated.
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Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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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 label before use.

Special labelling	EUH210 Safety data sheet available on request.
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2.3 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

Product-type:

The product is a mixture.

Range [%]	Substance
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	Triacetoxymethylsilane
	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.
Ingestion	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. 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 (NO_x).
Not combusted hydrocarbons.
Bursting aerosols can be forcibly projected from a fire.



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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.

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 °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.

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
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
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, dermal, Long-term - systemic effects: 14,5 mg/kg bw/d.
Industrial, inhalative, Long-term - local effects: 31 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 6,3 mg/m ³ .
general population, inhalative, Acute - systemic effects: 6,3 mg/m ³ .
general population, inhalative, Long-term - local effects: 5,1 mg/m ³ .
general population, inhalative, Acute - local effects: 5,1 mg/m ³ .
general population, dermal, Acute - systemic effects: 7,2 mg/kg bw/d.
general population, oral, Long-term - systemic effects: 1 mg/kg bw/d.
general population, oral, Acute - systemic effects: 1 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 7,2 mg/kg bw/d.
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, inhalative, Long-term - systemic effects: 21,06 mg/m ³ .
general population, dermal, Long-term - systemic effects: 6,05 mg/kg bw/d.
general population, oral, Long-term - systemic effects: 6,05 mg/kg bw/d.
trans-1,3,3,3-Tetrafluoroprop-1-ene, CAS: 29118-24-9
Industrial, inhalative (gas), Long-term - systemic effects: 3 902 mg/m ³ (AF=3).
general population, inhalative (gas), Long-term - systemic effects: 830 mg/m ³ (AF=5).

PNEC

Substance
Triacetoxymethylsilane, CAS: 4253-34-3
soil, 0,145 mg/l.
seawater, 0,1 mg/l.
freshwater, 1,0 mg/l.

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sediment (seaater), 0,34 mg/kg.

sediment (freshwater), 3,4 mg/kg.

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

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.

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.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	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/ml]	1,08 (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.
Evaporation speed	No information available.
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

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.

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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
Triacetoxymethylsilane, 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	Based on available data, the classification criteria are not met.
Specific target organ toxicity — repeated exposure	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**

Substance
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.

12.2 Persistence and degradability

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

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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.

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

SECTION 14: Transport information**14.1 UN number**

Transport by land according to ADR/RID	1950
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Inland navigation (ADN)	1950
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Marine transport in accordance with IMDG	1950
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Air transport in accordance with IATA	1950
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14.2 UN proper shipping name

Transport by land according to ADR/RID	AEROSOLS
- Classification Code	5A
- Label	
- ADR LQ	1 I
- 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	1 I

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



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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

No information available.

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); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- 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 03)**

H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.

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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
 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
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 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

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