



Article number 9877000002

EUROPART Holding GmbH

58135 Hagen-Haspe/Deutschland

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

**Hochtemperatur-Silikon Schwarz**

**Article number: 9877000002**

**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**

<b>Company</b>	EUROPART Holding GmbH Martinstraße 13 58135 Hagen-Haspe/Deutschland Phone +49 2331 35640 Fax +49 2331 356491499 Homepage <a href="http://www.europart.net">www.europart.net</a> E-mail <a href="mailto:info@europart.net">info@europart.net</a>
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**Address enquiries to**

<b>Technical information</b>	<a href="mailto:info@europart.net">info@europart.net</a>
<b>Safety Data Sheet</b>	<a href="mailto:sdb@chemiebuero.de">sdb@chemiebuero.de</a>

**1.4 Emergency telephone number**

<b>Advisory body</b>	Europart
<b>Company</b>	+49 2331 35640

**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**

<b>Hazard pictograms</b>	none
<b>Signal word</b>	WARNING
<b>Hazard statements</b>	H229 Pressurised container: May burst if heated.
<b>Precautionary statements</b>	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 label before use.
<b>Special labelling</b>	EUH210 Safety data sheet available on request.

**2.3 Other hazards**

<b>Other hazards</b>	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-Tetrafluorprop-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

<b>General information</b>	Change soaked clothing.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	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.
<b>Ingestion</b>	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

<b>Suitable extinguishing media</b>	Water spray jet. Dry powder. Foam.
<b>Extinguishing media that must not be used</b>	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.



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### 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 with 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.

### 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 with 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.

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
Amorphus Silica
CAS: 112945-52-5, EINECS/ELINCS: 231-545-4, Reg-No.: 01-21193379499-16-XXXX
Long-term exposure: 6 mg/m <sup>3</sup> , 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/m <sup>3</sup>
Short-term (15-minute): 20 ppm, 50 mg/m <sup>3</sup>

**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 <sup>3</sup> .
Industrial, inhalative, Long-term - systemic effects: 25 mg/m <sup>3</sup> .
Industrial, inhalative, Acute - systemic effects: 25 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 14,5 mg/kg bw/d.
Industrial, inhalative, Long-term - local effects: 31 mg/m <sup>3</sup> .
general population, inhalative, Long-term - systemic effects: 6,3 mg/m <sup>3</sup> .
general population, inhalative, Acute - systemic effects: 6,3 mg/m <sup>3</sup> .
general population, inhalative, Long-term - local effects: 5,1 mg/m <sup>3</sup> .
general population, inhalative, Acute - local effects: 5,1 mg/m <sup>3</sup> .
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 <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 12,11 mg/kg bw/d.
general population, inhalative, Long-term - systemic effects: 21,06 mg/m <sup>3</sup> .
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 <sup>3</sup> (AF=3).
general population, inhalative (gas), Long-term - systemic effects: 830 mg/m <sup>3</sup> (AF=5).

**PNEC**

Substance
Triacetoxymethylsilane, CAS: 4253-34-3



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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.
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-Tetrafluorprop-1-ene, CAS: 29118-24-9
freshwater, 0,1 mg/l (AF=1000).

## 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	Tightly fitting goggles. (EN 166:2001)
<b>Hand protection</b>	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).
<b>Skin protection</b>	not applicable
<b>Other</b>	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.
<b>Respiratory protection</b>	Not required under normal conditions. Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter P2. (DIN EN 143)
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	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

<b>Form</b>	pasty Press-Pack
<b>Color</b>	various
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	>100
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	No information available.
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	No information available.
<b>Density [g/ml]</b>	1,02 (20 °C / 68,0 °F)
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Relative vapour density determined in air</b>	No information available.
<b>Evaporation speed</b>	No information available.
<b>Melting point [°C]</b>	No information available.
<b>Autoignition temperature [°C]</b>	No information available.
<b>Decomposition temperature [°C]</b>	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.



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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.

<b>Serious eye damage/irritation</b>	Non-irritant (rabbit). On basis of test data
<b>Skin corrosion/irritation</b>	Non-irritant (rabbit). On basis of test data
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity — single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity — repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproduction toxicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>General remarks</b>	

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**

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not applicable
<b>Biological degradability</b>	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.

**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 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 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.



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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**

<b>Customs Tariff</b>	not determined
<b>Classification procedure</b>	Aerosol 3: H229 Pressurised container: May burst if heated. (Bridging principle "Aerosols")
<b>Modified position</b>	SECTION 3 been added: trans-1,3,3,3-Tetrafluoroprop-1-ene

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