


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

**S 300 HOCHTEMPERATUR-SILIKON**  
**Article number: 0898313**

**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** Kellner & Kunz AG  
 Boschstr. 37  
 4600 Wels / AUSTRIA  
 Phone 0043-7242-484-0  
 Fax 0043-7242-484-924  
 Homepage [www.reca.co.at](http://www.reca.co.at)  
 E-mail [info@reca.co.at](mailto:info@reca.co.at)

**Address enquiries to**

**Technical information** [info@reca.co.at](mailto:info@reca.co.at)  
**Safety Data Sheet** [sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

**1.4 Emergency telephone number**

**Advisory body** +43 (0) 1 406 43 43 (24h)

**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

No classification.

**2.2 Label elements**

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

**Hazard pictograms** none

**Hazard 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** none



### SECTION 3: Composition / Information on ingredients

#### Product-type:

3.2 The product is a mixture.

Range [%]	Substance
1 - <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 - <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

Take off contaminated clothing and wash before reuse.

##### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

##### Skin contact

When in contact with the skin, clean 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.  
If eye irritation persists: Get medical advice/attention.

##### Ingestion

Get medical advice.  
Rinse out mouth and give plenty of water to drink.

#### 4.2 Most important symptoms and effects, both acute and delayed

Headache

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide.

##### Extinguishing media that must not be used

Full water jet.

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

In the event of fire the following can be released:  
Carbon monoxide (CO)  
Nitrogen oxides (NOx).

#### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
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

Use personal protective clothing.  
Forms slippery surfaces with water.



## 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

Avoid spilling or spraying in enclosed areas.

Use only in well-ventilated areas.

Keep away from all sources of ignition - Refrain from smoking.

Do not eat or drink when working.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Recommended storage temperature: 5 - 25 °C

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

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

not applicable

#### DNEL

Substance
Triacetoxymethylsilane, CAS: 4253-34-3
Industrial, inhalative, Acute - local effects: 31 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - local effects: 31 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 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/m <sup>3</sup> .

#### PNEC

Substance
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), 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.
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

<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>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: 0,7 mm butyl rubber, > 120 min (EN 374)
<b>Skin protection</b>	Light protective clothing.
<b>Other</b>	Avoid contact with eyes and skin. 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.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	not determined
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	aerosol
<b>Color</b>	various
<b>Odor</b>	characteristic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not applicable
<b>Density [g/ml]</b>	not determined
<b>Bulk density [kg/m<sup>3</sup>]</b>	not applicable
<b>Solubility in water</b>	reacts with water
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	not applicable
<b>Relative vapour density determined in air</b>	>1
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	not applicable
<b>Autoignition temperature [°C]</b>	not applicable
<b>Decomposition temperature [°C]</b>	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 alcohols.

Reactions with alkalis (lyes).

Reactions with oxidizing agents.

## 10.4 Conditions to avoid

See SECTION 7

## 10.5 Incompatible materials

not determined

## 10.6 Hazardous decomposition products

Acetic acid.



## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.:
dermal, Based on the available information, the classification criteria are not fulfilled.:
ATE-mix, oral, > 2000 mg/kg.
Substance
Triacetoxymethylsilane, CAS: 4253-34-3
LD50, oral, Rat: 1600 mg/kg.
Propyltriacetoxysilane, CAS: 17865-07-5
LD50, oral, Human: 1460 mg/kg (Lit.).

#### Serious eye damage/irritation

Toxicological data of complete product are not available.  
Based on the available information, the classification criteria are fulfilled.  
Irritant  
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

#### Skin corrosion/irritation

Toxicological data of complete product are not available.  
Based on the available information, the classification criteria are fulfilled.  
Irritant  
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

#### Respiratory or skin sensitisation

Toxicological data of complete product are not available.  
Based on the available information, the classification criteria are fulfilled.  
May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

#### Specific target organ toxicity — single exposure

Toxicological data of complete product are not available.  
Based on the available information, the classification criteria are fulfilled.  
May cause respiratory irritation.  
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

#### Specific target organ toxicity — repeated exposure

Toxicological data of complete product are not available.  
Based on the available information, the classification criteria are fulfilled.  
May cause damage to organs through prolonged or repeated exposure through inhalation.  
Calculation method [RL (EC) No. 1272/2008 Annex I 1.1.3.7]

#### Mutagenicity

Does not contain a relevant substance that meets the classification criteria.

#### Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.

#### Carcinogenicity

Toxicological data of complete product are not available.  
Based on the available information, the classification criteria are fulfilled.  
Suspected of causing cancer.  
Calculation method

#### Aspiration hazard

Does not contain a relevant substance that meets the classification criteria.

#### General remarks

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. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



## SECTION 12: Ecological information

### 12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.:
Substance
Triacetoxymethylsilane, 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.).

### 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	The product is not readily biodegradable.

### 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

The product contains organically bound halogen in accordance with the formulation.  
 The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.  
 Ecotoxicological data are not available.  
 Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material c 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

For recycling, consult manufacturer.  
 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)** 150102



## SECTION 14: Transport information

### 14.1 UN number

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

### 14.2 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)

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

### 14.4 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

**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**

not determined

**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 (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

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

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

- Observe employment restrictions for people not applicable

- VOC (2010/75/CE) 0 %

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.



## 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

### Classification procedure

**Modified position** none

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