



PREFA Aluminiumprodukte GmbH

3182 Marktl / Lilienfeld / AUSTRIA

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

**PREFA Spezialsilikon**

**GTIN:**

**1.2 Relevant identified uses of the substance or mixture and uses advised against**
**1.2.1 Relevant uses**

Silicon

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

<b>Company</b>	PREFA Aluminiumprodukte GmbH Werkstrasse 1 3182 Marktl / Lilienfeld / AUSTRIA Phone +43 (0) 2762 502 0 Fax +43 (0) 2762 502 874 Homepage <a href="http://www.prefa.at">www.prefa.at</a> E-mail <a href="mailto:office.at@prefa.at">office.at@prefa.at</a>
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**Address enquiries to**

<b>Technical information</b>	<a href="mailto:office.at@prefa.at">office.at@prefa.at</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>	+43 (0) 1 406 43 43 (24h)
<b>Company</b>	

**SECTION 2: Hazards identification**
**2.1 Classification of the substance or mixture**

No classification.

**2.2 Label elements**

<b>Hazard pictograms</b>	not applicable
<b>Hazard statements</b>	none
<b>Precautionary statements</b>	none
<b>Special labelling</b>	EUH210 Safety data sheet available on request. Product treated with biocide OCTYLISOTHIAZOLINONE. Contains: 3-Aminopropyltriethoxysilane. EUH208 May produce an allergic reaction.

**2.3 Other hazards**

<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.
<b>Other hazards</b>	none



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### SECTION 3: Composition / Information on ingredients

#### Product-type:

The product is a mixture.

Range [%]	Substance
1 - <5	5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silano-2,7-diene CAS: 58190-57-1, EINECS/ELINCS: 611-631-1, Reg-No.: 01-2119982962-22-XXXX GHS/CLP: STOT RE 2: H373
0,1 - <1	3-Aminopropyltriethoxysilane CAS: 919-30-2, EINECS/ELINCS: 213-048-4, EU-INDEX: 612-108-00-0, Reg-No.: 01-2119480479-24-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1B: H317

#### 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

In case of contact with skin wash off immediately 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

Seek medical advice immediately.  
Do not induce vomiting.

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

Irritant effects  
Allergic reactions

#### 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

Dry powder.  
Foam.  
Carbon dioxide.

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

Water.

#### 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

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.  
High risk of slipping due to leakage/spillage of product.

**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. sand, sawdust, general purpose binder, diatomaceous earth).  
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.

Wash hands before breaks and after work.  
Use barrier skin cream.  
Do not eat, drink, smoke or take drugs at work.  
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 food and animal food/diet.  
Protect from heat/overheating.  
Keep in a cool place. Store in a dry place.

**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)

Substance
Silicon dioxide
CAS: 112945-52-5, EINECS/ELINCS: 231-545-4, Reg-No.: 01-2119379499-16-XXXX
Long-term exposure: 6 mg/m <sup>3</sup> , total inhalable dust



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**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>	0,4 mm Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	light protective clothing
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale vapours. 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>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	no
<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>	pasty
<b>Color</b>	various
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not determined
<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 determined
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	virtually insoluble
<b>Partition coefficient [n-octanol/water]</b>	not determined
<b>Viscosity</b>	not applicable
<b>Relative vapour density determined in air</b>	not determined
<b>Evaporation speed</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Autoignition temperature [°C]</b>	not determined
<b>Decomposition temperature [°C]</b>	not determined

**9.2 Other information**

none



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## **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 strong oxidizing agents.

### **10.4 Conditions to avoid**

See SECTION 7

### **10.5 Incompatible materials**

Strong oxidizing agent.

### **10.6 Hazardous decomposition products**

In the case of heating (150-180°C) following modest (decomposition) products may occur:  
Formaldehyde.



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**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.:
oral, Based on the available information, the classification criteria are not fulfilled.:
Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LD50, oral, Rat (male): ~ 2700 mg/kg (OECD 401).
LD50, dermal, Rabbit: 4000 mg/kg.
LD50, oral, Rat (female): ~ 1500 mg/kg (OECD 401).
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene, CAS: 58190-57-1
LD50, dermal, Rat: ~2500 mg/kg (OECD 402).
LD50, oral, Rat: 2500 mg/kg (OECD 423).

<b>Serious eye damage/irritation</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Skin corrosion/irritation</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Respiratory or skin sensitisation</b>	Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
<b>Specific target organ toxicity — single exposure</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Specific target organ toxicity — repeated exposure</b>	Based on available data, the classification criteria are not met. Toxicological data of complete product are not available. Calculation method
<b>Mutagenicity</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Reproduction toxicity</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Carcinogenicity</b>	Does not contain a relevant substance that meets the classification criteria.
<b>Aspiration hazard</b>	Does not contain a relevant substance that meets the classification criteria.
<b>General remarks</b>	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**

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LC50, (96h), Brachidanio rerio: > 934 mg/l.
EC50, (48h), Daphnia magna: 331 mg/l.
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene, CAS: 58190-57-1
LC50, (96h), Pimephales promelas: 696,76 mg/l (OECD 203).
EC50, (72h), Pseudokirchneriella subcapitata: 315,36 mg/l (OECD 201).
EC50, (48h), Daphnia magna: 678,73 mg/l (OECD 202).



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**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>	not determined

**12.3 Bioaccumulative potential**

not determined

**12.4 Mobility in soil**

not applicable

**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**

Ecological data of complete product are not available.

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

**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**

For recycling, consult manufacturer.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

**Waste no. (recommended)**

070217

**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**

<b>Transport by land according to ADR/RID</b>	not applicable
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<b>Inland navigation (ADN)</b>	not applicable
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<b>Marine transport in accordance with IMDG</b>	not applicable
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<b>Air transport in accordance with IATA</b>	not applicable
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**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 applicable





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**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

<b>EEC-REGULATIONS</b>	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
<b>TRANSPORT-REGULATIONS</b>	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	< 0,5 %

**15.2 Chemical safety assessment**

not applicable

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

H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H314 Causes severe skin burns and eye damage.  
 H302 Harmful if swallowed.  
 H373 May cause damage to organs through prolonged or repeated exposure.

**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



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**Modified position**

SECTION 3 deleted: reaction mass of: O,O',O''-(methylsilyl)tris(4-methyl-2-pentanone oxime) (3 stereoisomers)

SECTION 3 deleted: Butan-2-one O,O',O''-(vinylsilylidyne)trioxime

SECTION 3 deleted: N-[3-(Trimethoxysilyl)propyl]ethylenediamine

SECTION 3 deleted: 2-Butanone oxime

SECTION 3 deleted: Methyltris(methylethylketoxime)silane

SECTION 3 been added: 5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxa-3,7-diaza-5-silanona-2,7-diene

SECTION 3 been added: 3-Aminopropyltriethoxysilane

SECTION 2 been added: 3-Aminopropyltriethoxysilane

SECTION 2 been added: 2-Octyl-2H-isothiazol-3-one

SECTION 15 been added: Product treated with biocide [x].

SECTION 2 deleted: Contact with moisture liberates 2-Butanone oxime and Methanol.

SECTION 6 deleted: Do not clean contaminated area with water.

SECTION 9 deleted:

SECTION 10 deleted: Contact with moisture liberates 2-Butanone oxime and Methanol.

SECTION 11 deleted: Toxicological data of complete product are not available.

SECTION 11 deleted: Calculation method

SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 deleted: Non-sensitizing.

SECTION 11 been added: Toxicological data of complete product are not available.

SECTION 11 deleted: No classification due to toxicological investigations.

SECTION 11 been added: Calculation method

SECTION 11 been added: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

SECTION 11 deleted: Based on available data, the classification criteria are not met.

SECTION 11 deleted: Toxicological data of complete product are not available.

SECTION 11 deleted: Calculation method

SECTION 11 been added: Does not contain a relevant substance that meets the classification criteria.

SECTION 11 deleted: Based on available data, the classification criteria are not met.

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