

**Safety data sheet**  
according to No. 1907/2006 (REACH)

Revised on: 19.11.2019  
Version (Revision): 4.0.0 (3.0.0)  
Print date: 19.11.2019

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92361 Berggau  
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## RALMO-liquid sealant ÖKO 1K

### Section 1: Name of the substance or mixture and the company

- 1.1 Product identifier:**  
RALMO-liquid sealant ÖKO 1K
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
**Relevant identified uses:**  
advised uses : surface protection / equipment
- 1.3 Details of the supplier who provides the safety data sheet:**  
**Supplier (Manufacturer / importer / only representative / downstream user / distributor)**  
Ralmont GmbH  
Pavelsbacher Straße 17  
92361 Berggau  
Contact partner for information: info@ralmont.de
- 1.4 Emergency number**  
Bonn Poison Control Center, 24 hours a day, Tel. +49(0)228-19240

### Section 2: Hazard Identification

- 2.1 Classification of the substance or mixture:**  
**Classification according to Regulation (EG) No. 1272/2008 [CLP]:**  
None
- 2.2 Label elements:**  
**Labeling according to Regulation (EG) Nr. 1272/2008 [CLP]:**  
**Special rules for supplemental label elements for certain mixtures:**  
None
- 2.3 Other dangers:**  
Product hydrolyzes with formation of methanol (CAS 67-56-1)
- 2.4 Additional information:**  
For commercial users only.

### Section 3: Composition/ information on ingredients

- 3.2 Mixtures:**  
Chemical characterization  
**Description:**  
Mixture of the substances listed below  
**Dangerous ingredients:**  
TRIMETHOXYVINYL SILANE; EG-Nr.: 220-449-8; CAS-No.: 2768-02-7  
Weight percentage :  $\geq 3 - < 5$  %  
Classification 1272/2008 [CLP]: Flam. Liq. 3 ; H226 Acute Tox. 4 ; H332  
DEAROMATED HYDROCARBON MIXTURE; EG-No.: 920-107-4  
Weight percentage :  $\geq 1 - < 3$  %  
Classification 1272/2008 [CLP]: Asp. Tox. 1 ; H304
- 3.3 Additional information:**  
Full text of H- and EUH-phrases: see section 16.

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### Section 4: First aid measures

#### 4.1 Description of first aid measures:

##### General measures:

**If in doubt or if symptoms are present, seek medical advice.**

##### After inhalation:

Take affected person to fresh air and keep them warm and calm. If unconscious, lay onto the side in a stable position and seek medical advice. If breathing is difficult or has stopped, initiate artificial respiration.

##### After skin contact:

Take off dirty, soaked clothes immediately. Wash with soap and water, rinse.

##### After eye contact:

Rinse immediately with running water for 10 to 15 minutes with the eyelid wide open and consult an ophthalmologist.

Remove any existing contact lenses if possible. Continue rinsing.

##### After swallowing:

Get medical advice immediately. Do not induce vomiting.

##### Selfcare of first responder:

First aiders: Pay attention to self-protection!

#### 4.2 Important acute symptoms and delayed symptoms:

No symptoms known

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

None

### Section 5: Firefighting measures

#### 5.1 Extinguishing media:

##### Suitable extinguishing media:

Carbon dioxide (CO<sub>2</sub>) dry powder alcohol-resistant foam water mist

##### Unsuitable extinguishing media:

Full water jet, water spray jet

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

Formation of toxic gases is possible during heating or in case of fire.

#### 5.3 Advice for firefighters:

##### Special protective equipment for firefighters:

Use suitable respirator

#### 5.4 Additional information:

Do not allow extinguishing water to get into canals and bodies of water. Cool endangered containers with water in the event of fire.

### Section 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. See protective measures under point 7 and 8.

#### 6.2 Environmental protection measures:

Do not discharge into drains or rivers. Do not allow it to get into the subsoil / soil. If rivers, lakes or sewers are contaminated, inform the relevant authorities in accordance with local laws.

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### 6.3 Methods and material for containment and cleaning up:

**For restraint:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Pick up mechanically and collect in suitable containers for disposal.

**For cleaning:**

Thoroughly clean contaminated objects and floors in compliance with environmental regulations.

### 6.4 Reference to other sections:

Consider protective regulations (see chapters 7 and 8).

## Section 7: Handling and storage

### 7.1 Precautions for safe handling:

Consider the usual precautionary measures when handling chemicals. Ensure adequate ventilation.

**Fire protection measures:**

Keep away from sources of ignition - No smoking.

### 7.2 Conditions for safe storage taking into account incompatibilities:

**Conditions for storage facilities and packing:**

Keep / store only in the original container. Protect containers from damage. Keep container tightly closed.

**Advice on common storage:**

**Storage class (TRGS 510): 10**

**Keep away from:**

food, beverages and animal feed.

### 7.3 Specific end uses:

Consider the technical data sheet

**Industry solutions**

Giscode: RS10, installation materials, containing methoxysilane

## Section 8: Exposure controls / personal protection

### 8.1 Parameters to be monitored:

**Limits for occupational exposure:**

Information on the occupational exposure limit according to the RCP method according to TRGS 900 (D)

Limit value type (country of origin): calculated RCP occupational exposure limit value (D)

Limit value: not relevant

### 8.2 Exposure control and personal protection:

**Personal protection equipment:**

**Eye-/Face protection:**

Safety goggles recommended.

**Skin protection:**

**Hand protection:**

Use protective gloves. Wear cotton undergloves if possible.

Suitable material: PVC (polyvinyl chloride) NBR (nitrile rubber) butyl rubber

**Body protection:**

appropriate work clothing

**Respiratory protection:**

No measures required if the room is well ventilated or if outdoors.

### General safety and health measures:

Do not eat, drink, smoke or sniff at work. Avoid contact with skin, eyes and clothes.

Wash hands before breaks and at the end of work.

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### Section 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties:

**Appearance:**

Physical state: liquid

Color: see product description

**Odor:**

characteristic

**Security relevant basic information:**

Initial boiling point and boiling range: 1013 hPa > 35 ° C

Flash point: > 90 ° C

Vapor pressure: 50 ° C < 1000 hPa

Density: 20 ° C approx. 1.3 g / m<sup>3</sup>

Viscosity: 23 ° C 9000-13000 mPa.s.

Maximum VOC content (EG): 0.6% by weight

Maximum VOC content (Switzerland): 0.6% by weight

VOC value: 8.1 g / l (Din ISO 11890)

#### 9.2 Additional information:

None

### Section 10: Stability and reactivity

#### 10.1 Reactivity:

The product is stable when stored at normal ambient temperatures.

#### 10.2 Chemical stability:

The product is chemically stable under the recommended storage, use and temperature conditions.

#### 10.3 Possibility of hazardous reactions:

No dangerous reactions occur if handled and stored as intended.

#### 10.4 Conditions to avoid:

Humidity. Hardens under the influence of humidity.

#### 10.5 Incompatible materials:

Oxidizing agent, strong.

#### 10.6 Hazardous decomposition products:

Stable when the recommended rules for storage and handling are followed (see Section 7). Does not decompose in the intended use.

### Section 11: Toxicological information

#### 11.1 Information on toxicological effects

**Acute toxicity test results:****Acute oral toxicity:**

Parameter: LD50 ( TRIMETHOXYVINYL SILANE ; CAS-No. : 2768-02-7 )

Route of exposure: Oral

Species: Rat

Effective dose: 7120 - 7236 mg/kg

**Acute dermal toxicity:**

Parameter : LD50 ( TRIMETHOXYVINYL SILANE ; CAS-No. : 2768-02-7 )

Route of exposure: Dermal

Species: Rabbit

Effective dose: 3200 mg/kg

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### Acute respiratory toxicity:

Parameter : LC50 ( TRIMETHOXYVINYL SILAN ; CAS-No. : 2768-02-7 )  
Route of exposure: Breathe in  
Species: Rat  
Effective dose: 16,8 mg/l  
Exposure time: 4 h

### Irritation and etch effects:

#### Primary irritation effects on the skin:

No irritating effects known.

#### Eye irritation

may irritate the eyes on direct contact

#### Sensitization:

No sensitizing effects known or expected

#### CMR-Effects (carcinogenic, mutagenic and reprotoxic effects):

There is no information.

### 11.2 Additional information:

There is no information available on the mixture. The classification was based on the calculation method of Preparations Directive (1999/45 / EC) made.

## Section 12: Ecological information

Do not allow to get into water course or sewage system.

### 12.1 Toxicity:

#### Aquatic toxicity

#### Acute (shortterm) algea toxicity:

Parameter : EC50 ( TRIMETHOXYVINYL SILANE ; CAS-No. : 2768-02-7 )  
Species: Daphnia magna (large water flea)  
Effective dose: > 100 mg/l  
Exposure time: 48 h

#### Behavior in sewage treatment plants:

Parameter : EC50 ( TRIMETHOXYVINYL SILANE ; CAS-No. : 2768-02-7 )  
Inoculum : Behavior in sewage treatment plants  
Effective dose: > 6,6 mg/l

### 12.2 Persistence and degradability:

#### Biological degradability:

Parameter : Biodegradation ( TRIMETHOXYVINYL SILANE ; CAS-No. : 2768-02-7 )  
Inoculum : Half-life  
Degradation rate : 0,2 h

### 12.3 Bioaccumulative potencial

There is no information.

### 12.4 Mobility in soil:

There is no information.

### 12.5 Results of PBT- and vPvB-assessment:

not applicable

### 12.6 Other harmful effects:

There is no information.

### 12.7 Addiotional ecotoxicological information:

None

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### Section 13: Disposal considerations

#### 13.1 Waste treatment methods:

##### **Disposal of the product/packaging:**

Dispose in compliance with official regulations. Contaminated packaging must be emptied completely. They can then be recycled after appropriate cleaning. Uncleaned packaging must be disposed in the same way as the substance. Once the product has hardened, it can be disposed with household waste.

##### **Waste code according to EAK/AVV:**

**EAK-Nr. 080111** Waste paint and varnish containing organic solvents or other dangerous substances.

### Section 14: Transport information

#### 14.1 UN number:

Not hazardous according to these transportation regulations.

#### 14.2 UN proper shipping name:

Not hazardous according to these transportation regulations.

#### 14.3 Transport hazard classes:

Not hazardous according to these transportation regulations.

#### 14.4 Packing group:

Not hazardous according to these transportation regulations.

#### 14.5 Environmental hazards:

Not hazardous according to these transportation regulations.

#### 14.6 Special precautions for users:

See section 6-8.

### Section 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

##### **National legislation:**

##### **Technical Instructions on Air Quality Control (TA-Air)**

Weight fraction (figure 5.2.5. I): < 5 %

##### **Water hazard class (WGK)**

Classification according to AwSV - class: 1 (slightly hazardous to water)

##### **Other regulations, restrictions and prohibition regulations**

##### **Industrial safety regulations (BetrSichV)**

No flammable liquid according to BetrSichV.

##### **Austria:**

##### **Ordinance on Flammable Liquids - VbF**

VbF-class: NU

#### 15.2 Chemical safety assessment:

There is no information.

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## Section 16: Other information

### 16.1 Change notices

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

### 16.2 Abbreviations and acronyms

None

### 16.3 Important literature references and data sources

None

### 16.4 Classification of mixtures and used evaluation method according to regulation (EG) No. 1272/2008 [CLP]

There is no information.

### 16.5 Wording of the H- and EUH-clause (number and text)

Relevant H-phrases: This H-phrase (s) applies to the ingredient (s) and does not necessarily indicate the classification of the preparation

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H332 Harmful if inhaled.

### 16.6 Training advice

None

### 16.7 Additional information

None

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The information in this safety data sheet corresponds to the best of our knowledge at the time of going to print. The information is intended to give you advice on how to safely handle the product named in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product is mixed, mixed or processed with other materials, or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless otherwise stated. (The data on the hazardous ingredients were taken from the most recent safety data sheet of the upstream supplier.)