

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 22.02.2012

Version number 9



Revision: 22.02.2012

### 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** *Ceramic Bond*
- **Relevant identified uses of the substance or mixture and uses advised against** *Non-dental use.*
- **Application of the substance / the preparation** *Bonding*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*VOCO GmbH  
Anton-Flettner-Str. 1-3  
D-27472 Cuxhaven*
- **Further information obtainable from:** *Scientific department tel. +49 (0)4721-719-0*
- **Emergency telephone number:** *Poison Control Center Mainz +49 (0)6131-19240*

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
*Xi; Irritant*  
*R36: Irritating to eyes.*  
*F; Highly flammable*  
*R11: Highly flammable.*
- **Information concerning particular hazards for human and environment:**  
*Not applicable.*  
*The product does not have to be labelled due to the calculation procedure of the regulation 1272/2008/EC in the latest valid version.*
- **Classification system:**  
*The classification is according to the latest editions of the EU-lists, and extended by company and literature data.*
- **Labelling according to EU guidelines:**  
*As a medical device the product is not subject to labelling regulations under 1272/2008/EC.*
- **Code letter and hazard designation of product:**  

*Xi Irritant*  
*F Highly flammable*
- **Safety phrases:**  
*9 Keep container in a well-ventilated place.*  
*16 Keep away from sources of ignition - No smoking.*  
*23 Do not breathe aerosol.*  
*26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*  
*43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.*
- **Other hazards** *Use only for intended scope of application*

### 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Mixture of substances listed below with nonhazardous additions.*

· **Dangerous components:**

CAS: 67-64-1	acetone	Xi R36; F R11	50-100%
EINECS: 200-662-2		R66-67	

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### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
For dental use only.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** See storage instructions on package
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**67-64-1 acetone**

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm
	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm

- **Additional information:** The lists valid during the making were used as basis.

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Protection of hands:** Not required.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form:** Fluid
  - Colour:** Colourless
  - Odour:** Characteristic
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range:** Undetermined.
  - Boiling point/Boiling range:** Undetermined.
- **Flash point:** -19°C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 465°C
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Density at 20°C:** 0.79 g/cm<sup>3</sup>
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Other information:** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values relevant for classification:**

**67-64-1 acetone**

Oral	LD50	5800 mg/kg (rat)
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Dermal	LD50	20000 mg/kg (rabbit)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant



### 12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |   |   |
|---|---|
| · <b>UN-Number</b>                          |   |
| · <b>ADR, IMDG, IATA</b>                    | UN1090  |
| · <b>UN proper shipping name</b>            | -   |
| · <b>ADR</b>                                | 1090 ACETONE  |
| · <b>IMDG, IATA</b>                         | ACETONE   |
| · <b>Transport hazard class(es)</b>         | -   |
| · <b>ADR</b>                                |   |
|   |  |
| · <b>Class</b>                              | 3 Flammable liquids.  |
| · <b>Label</b>                              | 3   |
| <hr style="border-top: 1px dashed black;"/> |   |
| · <b>IMDG, IATA</b>                         |   |
|   |  |
| · <b>Class</b>                              | 3 Flammable liquids.  |
| · <b>Label</b>                              | 3   |
| · <b>ADR, IMDG, IATA</b>                    | II  |
| · <b>Marine pollutant:</b>                  | No  |
| · <b>Danger code (Kemler):</b>              | 33  |

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· <b>EMS Number:</b>	<i>F-E,S-E</i>
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· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	<i>1L</i>
· <b>Transport category</b>	<i>2</i>
· <b>Tunnel restriction code</b>	<i>D/E</i>

**15 Regulatory information****16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing MSDS:** Scientific department
- **Contact:** Tel.: +49 (0)4721-719-0

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