

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

077110745

**The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).**

077110729 077110737 077110752

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 17.04.2015

Version number 11

Revision: 17.04.2015

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

- **1.1 Product identifier**
- **Trade name:** Bifix SE Base
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Dental luting cement
- **1.3 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
- **1.4 Emergency telephone number:** Poison Control Center Mainz +49 (0)6131-19240

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1B H317 May cause an allergic skin reaction.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
As a medical device the product is not subject to labelling regulations under 1272/2008/EC.
- **Hazard pictograms** GHS07
- **Hazard statements**  
Causes serious eye irritation.  
May cause an allergic skin reaction.
- **Precautionary statements**  
Wear protective gloves / eye protection.  
Wear protective clothing.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards** Use only for intended scope of application
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

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

- **Dangerous components:**

CAS: 72869-86-4	Urethanedimethacrylate	5-10%
EINECS: 276-957-5	Aquatic Chronic 3, H412	
CAS: 1830-78-0	Glycerindimethacrylate	5-10%
EINECS: 217-388-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 41637-38-1	BIS-EMA	5-10%
EC number: 609-946-4	Aquatic Chronic 4, H413	
	Catalyst	≤ 2,5%
	Eye Dam. 1, H318	
	Acute Tox. 4, H302	

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according to 1907/2006/EC, Article 31

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Trade name: Bifix SE Base

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Initiator

≤ 2.5%

Acute Tox. 3, H301

**SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- **General information:** No special measures required.
- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

**SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- **Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections No dangerous substances are released.

**SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling  
For dental use only.  
No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- 7.2 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:** None.
- 7.3 Specific end use(s) No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- 8.1 Control parameters
- **Additional information:** The lists valid during the making were used as basis.

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- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:  
The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Protection of hands: Not required.
- Material of gloves: Not applicable.
- Eye protection: Safety glasses

### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
 

Form:	Pasty
Colour:	According to product specification
Odour:	Characteristic
- pH-value: Not determined.
- Change in condition
 

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- Flash point: Not applicable.
- Self-igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Density at 20 °C: 1.86 g/cm<sup>3</sup>
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Viscosity:
 

Dynamic:	Not determined.
Kinematic:	Not determined.
- 9.2 Other information: No further relevant information available.

### SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
 

on the skin:	Testing according to ISO 10993-1:10993-10 showed no skin irritation for this product when fully cured
on the eye:	Irritating effect.

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Trade name: **Bifix SE Base**

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- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** 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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |                               |                 |
|---|-------------------------------|-----------------|
| · <b>14.1 UN-Number</b>   | · <b>ADR, ADN, IMDG, IATA</b> | Void            |
| · <b>14.2 UN proper shipping name</b>   | · <b>ADR, ADN, IMDG, IATA</b> | Void            |
| · <b>14.3 Transport hazard class(es)</b>  | · <b>ADR, ADN, IMDG, IATA</b> | Void            |
| · <b>Class</b>  |                               | Void            |
| · <b>14.4 Packing group</b>   | · <b>ADR, IMDG, IATA</b>      | Void            |
| · <b>14.5 Environmental hazards:</b>  | · <b>Marine pollutant:</b>    | No              |
| · <b>14.6 Special precautions for user</b>  |                               | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> |                               | Not applicable. |
| · <b>UN "Model Regulation":</b>   |                               | -               |

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**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

**SECTION 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
- **Abbreviations and acronyms:**  
*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*  
*IMDG: International Maritime Code for Dangerous Goods*  
*IATA: International Air Transport Association*  
*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*ELINCS: European List of Notified Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*Acute Tox. 3: Acute toxicity, Hazard Category 3*  
*Acute Tox. 4: Acute toxicity, Hazard Category 4*  
*Skin Irrit. 2: Skin corrosion irritation, Hazard Category 2*  
*Eye Dam. 1: Serious eye damage eye irritation, Hazard Category 1*  
*Eye Irrit. 2: Serious eye damage eye irritation, Hazard Category 2*  
*Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B*  
*STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3*  
*Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3*  
*Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4*

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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.04.2015

Version number 17

Revision: 17.04.2015

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

- **1.1 Product identifier**
- **Trade name:** *Bifix SE catalyst*
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
*No further relevant information available.*
- **Application of the substance / the mixture** *Dental luting cement*
- **1.3 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*
- **1.4 Emergency telephone number:** *Poison Control Center Mainz +49 (0)6131-19240*

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.*
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
*As a medical device the product is not subject to labelling regulations under 1272/2008/EC.*
- **Hazard pictograms** *GHS07*
- **Hazard statements**  
*Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.*
- **Precautionary statements**  
*Wear protective gloves / eye protection.  
Wear protective clothing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **2.3 Other hazards** *Use only for intended scope of application*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

## SECTION 3: Composition/information on ingredients

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

· **Dangerous components:**

CAS: 1830-78-0	Glycerindimethacrylate	5-10%
EINECS: 217-388-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
	Acidic adhesive monomer	5-10%
	Skin Corr. 1B, H314 Eye Irrit. 2, H319	
CAS: 72869-86-4	Urethanedimethacrylate	5-10%
EINECS: 276-957-5	Aquatic Chronic 3, H412	

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Trade name: *Bifix SE catalyst*

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CAS: 1565-94-2	BIS-GMA Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-10%
CAS: 27813-02-1 EINECS: 248-666-3	Hydroxypropylmethacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≤ 2.5%
	benzoyl peroxyde Org. Perox. B, H241 Eye Irrit. 2, H319; Skin Sens. 1, H317	≤ 2.5%

#### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

#### **SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

#### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 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.

#### **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** For dental use only.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 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.
- **7.3 Specific end use(s)** No further relevant information available.

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**Safety data sheet**  
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Trade name: Bifix SE catalyst

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### SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

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

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

*The usual precautionary measures are to be adhered to when handling chemicals.*

*Avoid contact with the eyes and skin.*

· **Protection of hands:**



Protective gloves

· **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

· **Eye protection:** Safety glasses

### SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Pasty

· **Colour:** According to product specification

· **Odour:** Characteristic

· **pH-value at 20 °C:** 2.5

· **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20 °C:** 1.87 g/cm<sup>3</sup>

· **Solubility in / Miscibility with**

· **water:** Not miscible or difficult to mix.

· **Viscosity:**

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

· **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

· **10.1 Reactivity**

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

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Trade name: **Bifix SE catalyst**

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**· **11.1 Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values relevant for classification:**

Acidic adhesive monomer

Oral LD50 &gt; 2000 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:**

Testing according to ISO 10993-1/10993-10 showed no skin irritation for this product when fully cured  
Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.· **Sensitization:** Sensitization possible through skin contact.· **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

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:** No further relevant information available.· **12.2 Persistence and degradability** No further relevant information available.· **12.3 Bioaccumulative potential** No further relevant information available.· **12.4 Mobility in soil** 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.

· **12.5 Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations**· **13.1 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.**SECTION 14: Transport information**· **14.1 UN-Number** -· **14.2 UN proper shipping name** -

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Trade name: *Bifix SE catalyst*

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· 14.3 Transport hazard class(es)	-
· 14.4 Packing group	-
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
No further relevant information available.

### SECTION 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
- **Abbreviations and acronyms:**  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 Org. Perox. B: Organic Peroxides, Type B  
 Skin Corr. 1B: Skin corrosion irritation, Hazard Category 1B  
 Skin Irrit. 2: Skin corrosion irritation, Hazard Category 2  
 Eye Irrit. 2: Serious eye damage eye irritation, Hazard Category 2  
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

GB

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/06/2010

Reviewed on 12/06/2010

## 1 Identification of substance

- **Product details**
- **Trade name:** *Bifix SE catalyst*
- **Application of the substance / the preparation:** *Dental luting cement*
- **Manufacturer/Supplier:**  
*VOCO GmbH*  
*Anton-Flettner-Str. 1-3*  
*D-27472 Cuxhaven*
- **Information department:** *Scientific department tel. +49 (0)4721-719-0*
- **Emergency information:** *Scientific department tel. +49 (0)4721-719-0*


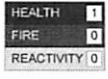
## 2 Composition/Data on components

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

- **Dangerous components:**

1830-78-0	Glycerindimethacrylate	5-10%
	Acidic adhesive monomer	5-10%
72869-86-4	Urethanedimethacrylate	5-10%
1565-94-2	BIS-GMA	5-10%
27813-02-1	Hydroxypropylmethacrylate	≤ 2.5%
	benzoyl peroxyde	≤ 2.5%

## 3 Hazards identification

- **Hazard description:**  
*Irritant*
- **Information pertaining to particular dangers for man and environment:**  
*The product has to be labelled due to the calculation procedure of international guidelines.*  
*Irritating to eyes and skin.*  
*May cause sensitization by skin contact.*
- **Classification system:**  
*The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.*
- **NFPA ratings (scale 0 - 4)**  

  - Health = 1
  - Fire = 0
  - Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  

  - Health = 1
  - Fire = 0
  - Reactivity = 0
- **Additional information:** *Use only for intended scope of application*

## 4 First aid measures

- **After inhalation:**  
*Seek medical treatment in case of complaints.*  
*In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:**  
*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

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USA

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/06/2010

Reviewed on 12/06/2010

Trade name: Bifix SE catalyst

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· **After swallowing:** If symptoms persist consult doctor.

## 5 Fire fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7 Handling and storage

- **Handling:**
  - **Information for safe handling:** For dental use only.
  - **Information about protection against explosions and fires:** No special measures required.
- **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 receptacle tightly sealed.

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **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:**



Protective gloves

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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USA

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/06/2010

Reviewed on 12/06/2010

Trade name: Bifix SE catalyst

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· Eye protection: Safety glasses

## 9 Physical and chemical properties

### · General Information

<b>Form:</b>	Pasty
<b>Color:</b>	According to product specification
<b>Odor:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined.

· **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.

· **pH-value at 20°C (68°F):** 2.5

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

### · Acute toxicity:

### · LD/LC50 values that are relevant for classification:

**Acidic adhesive monomer**

Oral LD50 > 2000 mg/kg (rat)

### · Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

## 12 Ecological information

### · Additional ecological information:

### · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

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USA

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/06/2010

Reviewed on 12/06/2010

Trade name: Bifix SE catalyst

(Contd. of page 3)

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** No

## 15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogeny categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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USA

# Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/06/2010

Reviewed on 12/06/2010

Trade name: **Bifix SE catalyst**

(Contd. of page 4)

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

- Contact Voco for more information

- **Canadian Ingredient Disclosure list (limit 0.1%)**

- Contact Voco for more information

- **Canadian Ingredient Disclosure list (limit 1%)**

- Contact Voco for more information

- **Product related hazard informations:**

- The product has been classified and marked in accordance with directives on hazardous materials.

- **Hazard symbols:**



Irritant

- **Hazard-determining components of labelling:**

- Hydroxypropylmethacrylate

- **Risk phrases:**

- Irritating to eyes and skin.

- May cause sensitization by skin contact.

- **Safety phrases:**

- Avoid contact with skin.

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After contact with skin, wash immediately with plenty of water

- Wear suitable gloves.

## 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 departement

- **Contact:** Tel.: +49 (0)4721-719-0

USA



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.09.2016

Version number 12

Revision: 20.09.2016

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

- 1.1 Product identifier
- Trade name: **Bifix SE Base**
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.
- Application of the substance / the mixture Dental luting cement
- 1.3 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
- 1.4 Emergency telephone number: Poison Control Center Mainz +49 (0)6131-19240

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1B H317 May cause an allergic skin reaction.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008  
As a medical device the product is not subject to labelling regulations under 1272/2008/EC.
- Hazard pictograms GHS07
- Hazard statements  
Causes serious eye irritation.  
May cause an allergic skin reaction.
- Precautionary statements  
Wear protective gloves / eye protection.  
Wear protective clothing.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- 2.3 Other hazards Use only for intended scope of application
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 72869-86-4 EINECS: 276-957-5	Urethanedimethacrylate Aquatic Chronic 3, H412	5-10%
CAS: 41637-38-1 EC number: 609-946-4	BIS-EMA Aquatic Chronic 4, H413	5-10%
CAS: 1830-78-0 EINECS: 217-388-4	Glycerindimethacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-10%
	Catalyst Eye Dam. 1, H318 Acute Tox. 4, H302	1-2.5%

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GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.09.2016

Version number 12

Revision: 20.09.2016

Trade name: Bifix SE Base

(Contd. of page 1)

Initiator	≤ 2.5%
Acute Tox. 3, H301	

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections** No dangerous substances are released.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
For dental use only.  
No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 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:** None.
- **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.09.2016

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Trade name: Bifix SE Base

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not applicable.
- **Eye protection:** Safety glasses

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Pasty
Colour:	According to product specification
Odour:	Characteristic
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- **Flash point:** Not applicable.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Density at 20 °C:** 1.86 g cm<sup>3</sup>
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.
- **9.2 Other information** No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Testing according to ISO 10993-1 10993-10 showed no skin irritation for this product when fully cured

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GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

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- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |  |                 |
|--|-----------------|
| · <b>14.1 UN-Number</b>                    |                 |
| · <b>ADR, ADN, IMDG, IATA</b>              | Void            |
| · <b>14.2 UN proper shipping name</b>      |                 |
| · <b>ADR, ADN, IMDG, IATA</b>              | Void            |
| · <b>14.3 Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>              |                 |
| · <b>Class</b>                             | Void            |
| · <b>14.4 Packing group</b>                |                 |
| · <b>ADR, IMDG, IATA</b>                   | Void            |
| · <b>14.5 Environmental hazards:</b>       |                 |
| · <b>Marine pollutant:</b>                 | No              |
| · <b>14.6 Special precautions for user</b> | Not applicable. |

(Contd. on page 5)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.09.2016

Version number 12

Revision: 20.09.2016

Trade name: Bifix SE Base

(Contd. of page 4)

- |   |                 |
|---|-----------------|
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation":  | Void            |

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

### SECTION 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 SDS: Scientific department
- Contact: Tel.: +49 (0)4721-719-0
- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Acute Tox. 3: Acute toxicity Category 3
  - Acute Tox. 4: Acute toxicity Category 4
  - Skin Irrit. 2: Skin corrosion irritation Category 2
  - Eye Dam. 1: Serious eye damage eye irritation Category 1
  - Eye Irrit. 2: Serious eye damage eye irritation Category 2
  - Skin Sens. 1B: Skin sensitisation Category 1B
  - STOT SE 3: Specific target organ toxicity (single exposure) Category 3
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard Category 3
  - Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard Category 4
- \* Data compared to the previous version altered.

GB

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/20/2016

Reviewed on 09/20/2016

## 1 Identification

- **Product identifier**
- **Trade name:** *Bifix SE Base*
- **Application of the substance / the mixture** *Dental luting cement*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*VOCO GmbH  
Anton-Flettner-Str. 1-3  
D-27472 Cuxhaven*
- **Information department:** *Scientific department tel. +49 (0)4721-719-0*
- **Emergency telephone number:** *Scientific department tel. +49 (0)4721-719-0*

## 2 Hazard(s) identification

*Health effects are based on the unmixed/uncured material.  
Under FDA regulations this product is classified as a medical device.  
Medical devices are exempt from the labelling provisions of GHS according to the Hazard Communication Standard (HCS).*

- **Classification of the substance or mixture**



*Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1B H317 May cause an allergic skin reaction.*

- **Label elements**
- **Hazard pictograms** *GHS07*
- **Signal word** *Warning*
- **Hazard statements**  
*Causes serious eye irritation.  
May cause an allergic skin reaction.*
- **Precautionary statements**  
*Wear protective gloves / eye protection.  
Wear protective clothing.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Other hazards** *Use only for intended scope of application*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

## 3 Composition/information on ingredients

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

- **Dangerous components:**

1830-78-0	Glycerindimethacrylate	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	5-10%
	Catalyst	Eye Dam. 1, H318 Acute Tox. 4, H302	1-2.5%
	Initiator	Acute Tox. 3, H301	≤ 2.5%

## 4 First-aid measures

- **Description of first aid measures**
- **General information:** *No special measures required.*

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/20/2016

Reviewed on 09/20/2016

**Trade name: Bifix SE Base**

(Contd. of page 1)

- **After inhalation:** Seek medical treatment in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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).
- **Reference to other sections** No dangerous substances are released.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
For dental use only.  
No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **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:** None.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/20/2016

Reviewed on 09/20/2016

Trade name: Bifix SE Base

(Contd. of page 2)

- **Protection of hands:** Not required.
- **Material of gloves:** Not required.
- **Eye protection:** Safety glasses

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

- |               |                                    |
|---------------|------------------------------------|
| <b>Form:</b>  | Pasty                              |
| <b>Color:</b> | According to product specification |
| <b>Odor:</b>  | Characteristic                     |

· **pH-value:** Not determined.

#### · Change in condition

- Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20 °C (68 °F):** 1.86 g/cm<sup>3</sup> (15.522 lbs/gal)

#### · Solubility in / Miscibility with

**Water:** Not miscible or difficult to mix.

#### · Viscosity:

- Dynamic:** Not determined.  
**Kinematic:** Not determined.

· **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## \* 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

#### · Primary irritant effect:

##### · on the skin:

Testing according to ISO 10993-1/10993-10 showed no skin irritation for this product when fully cured

##### · on the eye: Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

#### · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations:

(Contd. on page 4)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/20/2016

Reviewed on 09/20/2016

Trade name: **Bifix SE Base**

(Contd. of page 3)

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

128-37-0 | 2,6-di-tert-butyl-p-cresol

3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:** Smaller quantities can be disposed of with household waste.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**

- **DOT, ADR, ADN, IMDG, IATA**                      Void

- **UN proper shipping name**

- **DOT, ADR, ADN, IMDG, IATA**                      Void

- **Transport hazard class(es)**

- **DOT, ADR, ADN, IMDG, IATA**

- **Class**    Void

- **Packing group**

- **DOT, ADR, IMDG, IATA**                              Void

- **Environmental hazards:**

- **Marine pollutant:**                                      No

- **Special precautions for user**

- Not applicable.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/20/2016

Reviewed on 09/20/2016

Trade name: **Bifix SE Base**

(Contd. of page 4)

- |  |                 |
|--|-----------------|
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| <b>· UN "Model Regulation":</b>  | Void            |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

<b>· Section 355 (extremely hazardous substances):</b>
--

None of the ingredients are listed.
-------------------------------------

<b>· Section 313 (Specific toxic chemical listings):</b>
--

None of the ingredients are listed.
-------------------------------------

<b>· TSCA (Toxic Substances Control Act):</b>
---

One or more substances contained in this material are not listed on the TSCA Inventory. Contact VOCO for more information.
---

<b>· Proposition 65</b>
-------------------------

<b>· Chemicals known to cause cancer:</b>
---

None of the ingredients are listed.
-------------------------------------

<b>· Chemicals known to cause reproductive toxicity for females:</b>
--

None of the ingredients are listed
------------------------------------

<b>· Chemicals known to cause reproductive toxicity for males:</b>
--

None of the ingredients are listed
------------------------------------

<b>· Chemicals known to cause developmental toxicity:</b>
---

None of the ingredients are listed
------------------------------------

<b>· Cancerogenity categories</b>
-----------------------------------

<b>· EPA (Environmental Protection Agency)</b>
--

Initiator
-----------

I (oral)
----------

<b>· TLV (Threshold Limit Value established by ACGIH)</b>
---

128-37-0   2,6-di-tert-butyl-p-cresol
---------------------------------------

A4
----

<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
---

None of the ingredients are listed
------------------------------------

<b>· GHS label elements</b>
-----------------------------

The product is classified and labeled according to the Globally Harmonized System (GHS).
--

<b>· Hazard pictograms</b> GHS07
----------------------------------

<b>· Signal word</b> Warning
------------------------------

<b>· Hazard statements</b>
----------------------------

Causes serious eye irritation.
--------------------------------

May cause an allergic skin reaction.
--------------------------------------

<b>· Precautionary statements</b>
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Wear protective gloves / eye protection.
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Wear protective clothing.
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If skin irritation or rash occurs: Get medical advice/attention.
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If eye irritation persists: Get medical advice/attention.
---

Dispose of contents/container in accordance with local/regional/national/international regulations.
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## 16 Other information

The information contained herein is based on our present knowledge and is believed to be correct at the date issued. The information is subject to change without notice. However, all information, statements, recommendations or suggestions shall not constitute any guarantee, representation or warranty, expressed or implied.

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 09/20/2016

Reviewed on 09/20/2016

**Trade name: Bifix SE Base**

(Contd. of page 5)

*Final determination whether the product is fit and suitable for a particular purpose and the user's method of use or application is the sole responsibility of the user.*

· **Department issuing SDS:** Scientific department

· **Contact:** Tel.: +49 (0)4721-719-0

· **Date of preparation / last revision** 09/20/2016 / 11

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1B: Skin sensitisation – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

US