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 Art.-Nr., product name: **7023 PERMAFIX-KOHLER®**, Cat for Glaze



## 1. Identification of the substance / preparation and of the company / undertaking

- 1.1 Identification of the substance or preparation:
- 1.1.1 Commercial Product Name: PERMAFIX-KOHLER® Cat für glaze
- 1.2 Application of substance/preparation: commercial  
Glaze for dental use
- 1.3 Company / undertaking identification:
- Manufacturer / distributor: Kohdent Roland Kohler Medizintechnik GmbH & Co. KG  
 Street / POB-No.: Bodenseeallee 14-16  
 State / postal code / city: D-78333 Stockach  
 Telephone: +49 7771 / 64999-0      Telefax: +49 7771 / 64999-50  
 E-Mail: info@kohler-medizintechnik.de
- 1.4 Emergency telephone: +49 7771 / 64999-0  
 This number is busy only to office hours  
 (Mo.- Do 7.00 – 17.30, Fr. 7.00 – 12.30)

## 2. Hazards identification

- 2.1 Classification: The product is not dangerous preparation in the sense of the guideline 1999/45/EG.
- 2.2 Critical hazards to man and environment: With correct use admits no special dangers. However irritations avoid, can contact with the eyes cause. Product into the environment to arrive do not leave.

## 3. Composition / information on ingredients

- 3.1 Chemical characterisation (preparation): Silicon tin connection with auxiliary matters.
- 3.2 Hazards ingredient
- Description: Alkylstannosiloxane  
 CAS-No.: 93925-42-9  
 EG-No.: .  
 Index-No.: .  
 Concentration: < 20%  
 Hazard symbol: Xi  
 R-Phrases: 36  
 Additional information: The wording of the Hazard symbol and the R-Phrases is specified in chapter 16.

## 4. First aid measures

- 4.1 General information: With accident or indisposition take to medical advice (if possible, label or SDB present). Remove dirty clothes immediately.
- 4.2 After inhalation: Provide fresh air, if sickness consult doctor.
- 4.3 After contact with the skin: Immediately with much water and soap thoroughly wash off. Catch

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- 4.4 After contact with the eyes: up medical advice in the case of visible skin changes or continuous provoking. (if possible, label or SDB present).  
Eyes with opened eyelid gap immediately 15 minutes with flowing water rinse out. Optician doctor consult.
- 4.5 After swallowing: Consult doctor immediately. Rinse mouth out immediately and plentifully water in small portions after-drink. No vomiting cause. With spontaneous vomiting for the fact it ensures that vomit can flow off because of danger of suffocation unhindered.
- 4.6 Self protection of the first-aiders: To self protection pay attention (hand guard, foil masks („Life keys “).

## 5. Fire fighting measures

- 5.1 Suitable extinguishing media: Water mist, dry powder, foam, carbon dioxide
- 5.2 Extinguishing media which must not be used for safety reasons: Jet of water
- 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Incineration gases do not inhale
- 5.4 Special protective equipment for fire fighting: Use self-contained breathing apparatus, Delete measures with the environment co-ordinate.
- 5.5 Further Information: Contaminated fire fighting water separately collect; may not arrive in surface waters or groundwaters.

## 6. Accidental release measures:

- 6.1 Personal precautions: Unprotected contact avoids. Suitable protective clothing wearing.
- 6.2 Environmental precautions: Do not leave waste water and into the ground in waters, to arrive. Local official regulations consider.
- 6.3 Methods for cleaning up: Take up mechanically or with liquid-binding material (sand, kieselguhr, sawdust) and in suitable, according to characterized container collect; To disposal see point 13

## 7. Handling and storage:

- 7.1 Handling:  
Handling procedures: The precautionary measures usual while handling chemicals are to be considered. With the use do not eat, drink or smoke. Contact of the no cured product with the eyes, the skin and the clothes avoid. Steams do not inhale.
- Recommendation for fire and explosion protection: General rules of the preventive fire protection consider.
- 7.2 Storage:  
technical measures and storage conditions:  
Requirements at storerooms and Store drying separately in closely closed original bundles coolly

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containers:  
Requirements for storage with other products:  
Additional storage conditions:

and from food. Provide to good room ventilation.  
With strong oxidizing agents do not together-store.

Keep at temperature not exceeding 25°C / 77 °F.  
Protect for moisture

7.3 Specified use:

Component A of an isolation mass on silicone basis for the dentistry; to the use by trained technical personnel

## 8. Exposure controls / personal protection

8.1 Exposition limit values

No assigned materials with workstation-furnished, to supervising limit values.

Air limit value to TRGS900:

Tin-organic connections 0,1 mg/m<sup>3</sup>

8.2 Components with limits of values:

8.2.1 Components with limits of values to be supervised at the workplace:  
General protection and hygiene measures:

Exposition limit values must be supervised with suitable analytic equipment.

General hygiene measures while handling chemical materials consider. Do not eat with the work and drink. Soiled or impregnated clothes change. Inhale from steams avoids. For sufficient ventilation and/or exhaust provide.

Personal protective equipment:  
Respiration:

In exceptional cases (e.g. unintentional free of the product setting, job limit value excess) carrying of respiratory protection is indicated (respirator: Gas filters A, identification colour code: brown).  
Stretcher time delimitations consider.

Hands:

Protective gloves wear. Examine tightness before use. Gloves before taking off prepurify, afterwards well ventilated keep.  
Been suitable: are protective gloves from the following materials: (Break-through time ≥ 8 hours): Nitrile rubber/Nitrillatex - NBR (0.35 mm) Butyl rubber - Butyl (0.5 mm) Fluorocarbon rubber - FKM (0.4 mm); (Break-through time ≥ 4 hours) Polychloropren - CR (0.5 mm).

The following glove materials are not suitable:  
Naturkautschuh/Naturalatex - NR; Polyvinyl chloride - PVC  
Material or leather gloves are completely not suitable.

The numerical data are approximate values from measurements with 22 °C / 69°F and permanent contact. Increased temperatures by warmed up substances, body warmth etc. and a reduction of the effective layer strength by stretch can lead to a substantial decrease of the break-through time. Ask manufacturers in the case of doubt.

Eyes:

Eye protector/face protector carry

Personal:

Work clothes wearing

8.2.2 Delimitation and monitoring of the

In waters and into the ground to arrive do not leave.

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environmental exposition:

## 9. Physical and chemical properties

|     |  |  |                     |
|-----|--|--|---------------------|
| 9.1 | Appearance   |  |                     |
|     | Form:  | Liquid   |                     |
|     | Colour:  | Colourless                                       |                     |
|     | Odour:   | characteristic                                   |                     |
| 9.2 | Important information to the health and environmental protection as well as for security |  | Method (67/548/EWG) |
|     | Boiling point:   | = > 200 °C / 392 °F                              |                     |
|     | Flashpoint:  | = > 100 °C / 212 °F                              | DIN 51755           |
|     | Ignition temperature:  | = > 300 °C / 572 °F                              | DIN 51794           |
|     | Oxidizing properties:  | n.a.   |                     |
|     | Explosive properties:  | n.a.   |                     |
|     | Vapour pressure:   | = < 1 hPa bei 20 °C / 68 °F                      | DIN 51757           |
|     | Density:   | = approx. 1,0g/cm <sup>3</sup> bei 20 °C / 68 °F |                     |
|     | Solubility in water:   | = virtually insoluble                            |                     |
|     | pH-value   | n.a.   |                     |
|     | Distribution coefficient octanol / water:  | n.a.   |                     |
|     | Viscosity (dynamic):   | = ca. 80 mPa-s by 23 °C / 73 °F                  | Brookfield          |
| 9.3 | Further information:   |  |                     |
|     | Thermal decomposition:   | = > 250 °C / 482 °F                              |                     |

## 10. Stability and reactivity

|      |  |   |
|------|--|---|
| 10.1 | Incompatibility with other substances: | Product not increased temperatures suspend, since the education of inflammatory steams is possible. |
| 10.2 | Avoiding materials                     | Reacted with strong oxidizing agents  |
| 10.3 | Hazardous discomposition products:     | No decomposition during regulation-moderate storage and handling.                                   |

## 11. Toxicological information

|      |                       |  |
|------|-----------------------|--|
| 11.1 | General information   | After our experiences and us the available information the product is to be handled with while appropriate handling and intended use without health risks. |
| 11.2 | Toxicological Test    |  |
|      | Acute toxicity:       |  |
|      | Acute orale toxicity: | For the product no toxicological data are present. For products of similar composition a LD <sub>50</sub> (oral, rat) was found of over 2000 mg/kg         |

## 12. Ecological information

|      |  |                          |
|------|--|--------------------------|
| 12.1 | Ökotoxität:  |                          |
|      | Behavior in sewage plants (bacteria toxicity: Breathing/increase inhibition) | Do not in sewage plants. |
| 12.2 | Mobilität:   | None data                |

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|      |   |  |
|------|---|--|
| 12.3 | Persistence and degradableness          | None date  |
|      | Biological attack/ further informaiton: | None data  |
| 12.4 | Bio accumulation potential:             | None data  |
| 12.5 | Other harmful effects:                  | Damaging effect on water organisms. Drinking water endangerment with the penetration of larger quantities in underground and waters. |
| 12.6 | Further ökologische behavior:           | In waste water to arrive do not leave. In soil and waters to arrive do not leave.  |

### 13 Disposal consideration

|      |                           |   |
|------|---------------------------|---|
| 13.1 | Disposal/waste (product): | Recommendation: Correct removal by burning in a special refuse combustion plant. Local official regulations are to be considered.           |
|      | EAK/AVV-waste key:        | The allocation of a waste key number in accordance with European refuse catalogue is to be made in arrangement with the official regulator. |
| 13.2 | Uncleaned packaging:      | Disposal in accordance with the local official regulations.   |

### 14 Transport Information

|      |   |                                    |
|------|---|------------------------------------|
| 14.1 | Land transport ADR/RID and GGVS/GGVE (Germany): | Not classified as hazardous goods. |
|      | GGVS/GGVE class::                               | Not classified as hazardous goods. |
|      | ADR/RID class:                                  |                                    |
|      | Warning sign – hazard no.:                      |                                    |
|      | Identification product:                         |                                    |
|      | Notice:   |                                    |
|      | Shipping symbol:                                |                                    |
|      | LQ  |                                    |
| 14.2 | Binnenschifftransport ADN/ADNR:                 |                                    |
|      | Note:   | Not classified as hazardous goods. |
| 14.3 | Sea transport IMDG/GGVSee:                      |                                    |
|      | IMDG/GGVSee-class;                              | Not classified as hazardous goods. |
|      | EmS-No.   |                                    |
|      | Marine pollutant:                               |                                    |
|      | Proper shipping Name                            |                                    |
|      | Technical name:                                 |                                    |
|      | LTD. QTY:                                       |                                    |
| 14.4 | Air transport ICAO-TI and IATA-DGR:             |                                    |
|      | ICAO/IATA-class:                                | Not classified as hazardous goods. |
|      | Proper shipping name:                           |                                    |
|      | Technical name:                                 |                                    |
|      | Notice:   |                                    |
|      | Air post:                                       |                                    |

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- |      |  |   |
|------|--|---|
| 15.1 | Classification according to EEC-guidelines:            | According to the Regulations for Hazardous Goods and the corresponding EC-Guidelines the product is not to be labelled. |
| 15.2 | National Prescription (Germany)<br>Water hazard class: | WGK 2 = water-endangering (classification in accordance with appendix 4 VwVwS of 17.05.1999 in the current version).    |

**16 Other information**

- |      |   |   |
|------|---|---|
| 16.1 | Wording of the R-sentences under section 3:               | Irritat the eyes,<br>Irritation                       |
|      |   | Look at section 3.                                    |
| 16.2 | Further Information:<br>Explanation of the abbreviations: | n.a. = not applicable          n.u. = not subject to: |
| 16.3 | Data original:  |   |

Guideline 1999/45/EG for the classification, packing and marking of dangerous preparations

Characteristic data in terms of safety of chemical materials, exomed publishing house, collection of sheets with auxiliary supplies.

Manual of the refuse disposal, exomed publishing house, collection of sheets with auxiliary supplies General administrative regulation for the change of the administrative regulation of water-endangering materials - VwVwS from 27 July of 2005.

Safety data sheets and further data of suppliers/manufacturers.

Data the given the product describe excluding the safety requirements of the Product/the products and support themselves on the today's conditions of our knowledge. They do not represent a warranty of characteristics of the descriptive product/the descriptive products in the sense of the legal guarantee regulations.