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Art.-Nr., product name: **7021/7031 PERMAFIX-KOHLER®**, base + catalyst**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®, base + catalyst

1.2 Application of substance/preparation: commercial relining 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: No special hazards.

3. Composition / information on ingredients

3.1 Chemical characterisation (preparation): Contains Polydimethylsiloxan with functional groups, fillers and pigment.

Catalyst additionally: platin-complex compound.

3.2 Hazards ingredient

None

4. First aid measures

4.1 General information: With accident or indisposition take to medical advice (if possible, label or SDB present).

4.2 After inhalation:: provide fresh air

4.3 After contact with the skin: Products with cloth or paper mechanically remove. Wash off with much water and soap. With visible skin change or complaints take to medical advice (if possible, label or SDB present).

4.4 After contact with the eyes:: Eyes with opened eyelid gap immediately 15 minutes with flowing water rinse out. Optician consult.

4.5 After swallowing: Rinse mouth out immediately and plentifully water in small portions after-drink. No vomiting cause. Take to medical advice with illness.

4.6 Self protection of the first-aider: To self protection pay attention (hand guard, foil masks („Life keys“).

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Art.-Nr., product name: **7021/7031 PERMAFIX-KOHLER®**, base + catalyst



5. Fire fighting measures

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|-----|--|---|
| 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: | Development of hydrogen may cause explosible hydrogen-air-mixtures. |
| 5.4 | Special protective equipment for fire fighting: | Use self-contained breathing apparatus. Accomplish decontamination by means of explosion-proofed equipment. |

6. Accidental release measures:

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|-----|----------------------------|--|
| 6.1 | Personal precautions: | If material were set free, on slip hazard to make attentive. By buried material do not run. |
| 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); To disposal see point 13 |

7. Handling and storage:

- | | | |
|-----|---|--|
| 7.1 | Handling:
Handling procedures:

Recommendation for fire and explosion protection: | The precautionary measures usual while handling chemicals are to be considered. With the use do not eat, drink or smoke.
When the off or filling over the product can load itself electrostatically. Measures against electrostatic loading meet.
Before open flames, warming and ignition sources keep away - do not smoke. |
| 7.2 | Storage:
technical measures and storage conditions:
Requirements at storerooms and containers:
Requirements for storage with other products:

Additional storage conditions: | Store drying separately in closely closed original bundles coolly and from food. Provide to good room ventilation.
With acids, caustic solutions, alcohols, powdered metals and/or metallic oxides do not together-store (promotion of the release of hydrogen).
Keep at temperature not exceeding 25°C / 77 °F.
Protect for moisture |
| 7.3 | Specified use: | Silicone material for the relining of dental prostheses to the use by trained technical personnel |

8. Exposure controls / personal protection

- | | | |
|-----|-------------------------|---|
| 8.1 | Exposition limit values | No associated substance with specific working place control parameters. |
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Art.-Nr., product name: **7021/7031 PERMAFIX-KOHLER®**, base + catalyst



8.2 Limitation and control of the exposition

8.2.1 Limitation and control of the exposition at the place of work:

General protection and hygiene measures:

General hygiene measures while handling chemical materials consider. Do not eat with the work and drink.

Personal protective equipment:

Respiration:

Not necessarily

Hands:

Recommended, e.g. Protective gloves from nitrile rubber, however no latex gloves uses (impairment of the setting reaction).

Eyes:

Eye protector for the avoidance of mechanical injuries at the eye recommended.

Personal:

Work clothes wearing

8.2.2 Delimitation and monitoring of the environmental exposition:

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

9. Physical and chemical properties

9.1 Appearance

Form:

Paste

Colour:

Base: gingivia coloured / catalyst: white

Odour:

Faintly typical

9.2 Important information to the health and environmental protection as well as for security

Method (67/548/EWG)

Flashpoint:

= > 100 °C / 212 °F

DIN 51755

Ignition temperature:

= > 400 °C / 752 °F

DIN 51794

Oxidizing properties:

n.a.

Explosive properties:

n.a.

Vapour pressure:

= < 10 hPa bei 20 °C / 68 °F

DIN 51757

Density:

= ca. 1,05 g/cm³ bei 20 °C / 68 °F

Solubility in water:

= virtually insoluble

pH-value

n.a.

Distribution coefficient octanol / water:

n.a.

Viscosity (dynamic):

= approx. 290 000 mPa-s by 23 °C / 73 °F

Brookfield

9.3 Further information:

Thermal decomposition:

= > 180 °C / 356 °F

10 Stability and reactivity

10.1 Incompatibility with other substances:

Temperature > 150 °C / 302 °F (siehe 10.3).

10.2 Avoiding materials

Reacted with acids, caustic solutions, alcohols, powdered metals and/or metallic oxides under release of hydrogen.

10.3 Hazardous decomposition products:

In case of thermic decomposition hydrogen is released. At a temperature of approx. 150°C/302°F a small amount of formaldehyde can be released by oxidative degradation.

11 Toxicological information

11.1 General information

To handle after past knowledge while appropriate handling and

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Art.-Nr., product name: **7021/7031 PERMAFIX-KOHLER®**, base + catalyst



11.2 Toxicological Test
 Acute toxicity:
 Acute orale toxicity:

considering the usual industrial hygiene without health dangers. After the conditions of our present knowledge neither mutagen, carcinogenically still teratogen.

For the product no toxicological data are present. For products of similar composition a LD₅₀ (oral, rat) was found of over 5,000 mg/kg

12. Ecological information

12.1 Ökotoxizität:
 Behavior in sewage plants (bacteria toxicity: Breathing/increase inhibition) To expect after present experience no unfavourable effects in sewage plants.

12.2 Mobilität: Forms on the water surface a thin oil film. By suspended particles one absorbs. Separation by sedimentation.

12.3 Persistence and degradableness
 Biological attack/ further informaiton: Biologically not degradable. Polydimethylsiloxane are degradable by abiotische procedures to certain extent.

12.4 Bio accumulation potential: Bio accumulation improbably

12.5 Other harmful effects: none admits

12.6 Further ökologische behavior: In the case of appropriate handling and use no environmental problems are to be expected.

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/AWV-waser-key: 07 02 17 (wastes from HZVA von plastic, synthetic rubber and artificial fibers; silicone type wastes, others than in 07 02 16 specified)

13.2 Uncleaned packaging: Recommendation: Packing is completely to empty (drip-free, rieselfrei, putty clean). Packing is under attention that valid in each case local/national regulations prefers supplying to a re-use and/or an utilization.

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

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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:

Not classified as hazardous goods.

Technical name:

Notice:

Air post: permitted

15 Regulatory information:

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)

Water hazard class:

WGK 1 = weakly 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:

none

16.2 Further Information:

Explanation of the abbreviations:

n.a. = not applicable

n.u. = not subject to:

16.3 Data original:

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

Manual of the refuse disposal, ecomed 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.