

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 24.08.2010

Revision: 23.08.2010

1 Identification of substance· **Product details**· **Trade name: HeraCeram Zirkonia Liner, ... Zr Adhesive**

· - Intensiv-Liner

· **Application of the substance / the preparation** Manufacture of dental prothesis· **Manufacturer/Supplier:**Heraeus Kulzer GmbH
Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

· **Informing department:**Christiane Braun
Tel: +49 6081 917223
Fax: +49 6081 917221
E-mail: braun@scientific-glass.de· **Emergency information:**

Call "Poisoning Emergency Center Berlin": +49 30 30686 790 (24 hours, support in english and german language)

2 Hazards identification· **Hazard designation:** void· **Information pertaining to particular dangers for man and environment** void· **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients· **Chemical characterization**· **Description:** -· **Dangerous components:**

CAS: 110-63-4	butane-1,4-diol	Xn; R 22	10-25%
EINECS: 203-786-5			

· **Additional information** For the wording of the listed risk phrases refer to section 16.**4 First aid measures**· **General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After skin contact** The product is not skin irritating.· **After eye contact** Rinse opened eye for several minutes under running water.· **After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.**5 Fire fighting measures**· **Suitable extinguishing agents**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.· **Protective equipment:** No special measures required.· **Additional information** -**6 Accidental release measures**· **Person-related safety precautions:** Not required.

(Contd. on page 2)

GB

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 24.08.2010

Revision: 23.08.2010

Trade name: HeraCeram Zirkonia Liner, ... Zr Adhesive

(Contd. of page 1)

- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
Dispose of contaminated material as waste according to item 13.
- **Additional information:**
No dangerous materials are released.
See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
 - **Requirements to be met by storerooms and containers:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical 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 compilation were used as basis.
- **Personal protective equipment**
 - **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Wash hands during breaks and at the end of the work.
 - **Breathing equipment:** Not required.
 - **Protection of hands:** Not required.
 - **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.
 - **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.
 - **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Natural rubber, NR
 - **Eye protection:** not absolutely necessary
 - **Body protection:** Light weight protective clothing

9 Physical and chemical properties:

· General Information

- | | |
|------------------|-------------------------------|
| · Form: | Pasty |
| · Colour: | Different according to colour |
| · Smell: | Characteristic |

(Contd. on page 3)

GB

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 24.08.2010

Revision: 23.08.2010

Trade name: HeraCeram Zirkonia Liner, ... Zr Adhesive

(Contd. of page 2)

- **Change in condition**
 - **Melting point/Melting range:** Not determined
 - **Boiling point/Boiling range:** 230°C
- **Flash point:** 134°C
- **Ignition temperature:** 385°C
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive.
- **Density at 20°C** 1.900 g/cm³
- **Solubility in / Miscibility with**
 - **Water:** Not miscible or difficult to mix
- **Solvent content:**
- **Solids content:** 30.0 %

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

110-63-4 butane-1,4-diol

Oral	LD50	1525 mg/kg (rat)
------	------	------------------

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritant effect.

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

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.

12 Ecological information:

- **General notes:**

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

13 Disposal considerations

- **Product:**

- **Recommendation** Smaller quantities can be disposed with household garbage.

- **European waste catalogue**

18 01 06	chemicals consisting of or containing dangerous substances
----------	--

(Contd. on page 4)

GB

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 24.08.2010

Revision: 23.08.2010

Trade name: HeraCeram Zirkonia Liner, ... Zr Adhesive

(Contd. of page 3)

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

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**
- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** -

15 Regulatory information

- **Designation according to EC guidelines:**
Observe the normal safety regulations when handling chemicals
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**
22 Harmful if swallowed.
- **Contact:**
Dr. Thiele Tel.: (+49) 6181 35-3012
email: ruediger.thiele@heraeus.com
- *** Data compared to the previous version altered.**