

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
DuceraGold Kiss Paste Opaque
DuceraGold love Pastebonder Degunorm
DuceraGold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 1 / 10 |

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name
Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
DuceraGold Kiss Paste Opaque
DuceraGold love Pastebonder Degunorm
DuceraGold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

Company
DeguDent GmbH
Postfach 1364
D-63403 Hanau

Telephone +49 (0)6181/59-5767
Telefax +49 (0)6181/59-5879
Email address SDB@degudent.de
Emergency telephone number +49 (0)180 / 23 24-555

Use of the Substance / Preparation For dental use only.

REACH Registration No.: if available listed in Chapter. 3

2. HAZARDS IDENTIFICATION

Other Hazards

In case product dust is released:
Inhalation of ceramic dust (quartz dust) can cause silicosis.

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 2 / 10 |

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

The preparation contains:
Vitreous porcelain

Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC

| | | | |
|-----------------------------|-----------|--------|-----------|
| • butane-1,4-diol | | | < 15% |
| CAS-No. | 110-63-4 | EC-No. | 203-786-5 |
| | Xn R22 | | |
| • Hexane-1,2,6-triol | | | > 15% |
| CAS-No. | 106-69-4 | EC-No. | 203-424-6 |

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES

Description of first aid measures

Take off all contaminated clothing immediately.

Inhalation

Provide fresh air, seek medical advice if necessary.

Skin contact

Wash off with plenty of water and soap, seek medical advice if necessary.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.
Seek medical advice.

Ingestion

Clean mouth with water and drink afterwards plenty of water.
Induce vomiting, but only if victim is fully conscious.
Consult a physician immediately.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

dry powder, CO₂, alcohol-resistant foam, water spray

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 3 / 10 |

Special hazards arising from the substance or mixture

In the case of fire, the following hazardous smoke fumes may be produced:

Carbon monoxide
carbon dioxide

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.

Fire residues should be disposed of in accordance with the regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

Handle in accordance with good industrial hygiene and safety practices.

Environmental precautions

Do not allow the product into the following compartments:

sewage water
stretches of water
drainage systems

Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. inert absorbent sand universal binder).

Dispose of absorbed material in accordance with the regulations.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practices.

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Storage

Conditions for safe storage, including any incompatibilities

Do not store together with: oxidizing agents

Keep container tightly closed and in a well-ventilated place.

Store in the original receptacle, keeping this tightly sealed, under cool and dry conditions.

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 4 / 10 |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Engineering measures

Ensure suitable suction/aeration at the work place and with operational machinery.

Personal protective equipment

Hand protection

Wear protective gloves made of the following materials: rubber or plastics.
Suitability for specific workplaces should be clarified with protective glove manufacturers.

Eye protection

Safety glasses with side-shields

Hygiene measures

No eating, drinking, smoking, or snuffing tobacco at work. Wash face and/or hands before break and end of work.

Immediately change moistened and saturated work clothes.

Protective measures

Handle in accordance with good industrial hygiene and safety practices.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

| | |
|--------|-----------------------------|
| Form | paste |
| Colour | according to the coloration |
| Odour | odourless |

Information on basic physical and chemical properties

| | | | |
|------------------|---------------------------|----------|---------|
| pH | ca. 10 | (40 g/l) | (20 °C) |
| Density | ca. 1.9 g/cm ³ | | (20 °C) |
| Water solubility | partly soluble | | |

10. STABILITY AND REACTIVITY

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
DuceraGold Kiss Paste Opaque
DuceraGold love Pastebonder Degunorm
DuceraGold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 5 / 10 |

| | |
|------------------------------------|--|
| Possibility of hazardous reactions | Reaction with strong oxidants. |
| Conditions to avoid | None known |
| Incompatible materials | None known |
| Hazardous decomposition products | No hazardous decomposition products known. |

11. TOXICOLOGICAL INFORMATION

No results of animal experiments with this preparation are available.

| | |
|---------------------------|---|
| Acute oral toxicity | LD50 rat: 1525 mg/kg related to substance: butane-1,4-diol |
| Acute inhalation toxicity | LC50 Rat: > 5.1 mg/l / 4 h related to substance: butane-1,4-diol |
| Acute dermal toxicity | LD50 Rabbit: > 2000 mg/kg related to substance: butane-1,4-diol |
| Skin irritation | Rabbit not irritating Method: OECD Test Guideline 404 related to substance: Hexane-1,2,6-triol |
| Eye irritation | Rabbit not irritating Method: OECD Test Guideline 405 related to substance: Hexane-1,2,6-triol |
| Repeated dose toxicity | Oral Rat Testing period: 90 d NOEL: ca. 1000 mg/kg target organ/effect: body weight development negative Feeding experiments related to substance: Hexane-1,2,6-triol Oral Rat Testing period: 2 years NOEL: 100 mg/kg target organ/effect: Kidney, Liver Feeding experiments |

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 6 / 10 |

chronic
related to substance: Hexane-1,2,6-triol

Human experience To date handling this product has not been known to cause any detrimental effects.

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability Result: 96 %
Method: OECD 301 E
readily biodegradable
related to substance: butane-1,4-diol

Ecotoxicity effects

No results of animal experiments with this preparation are available.

Toxicity to fish LC50 Cyprinus carpio: > 1240.00 mg/l / 96 h
Method: EC 92/69
related to substance: butane-1,4-diol

LC0 Cyprinus carpio: 1240 mg/l / 96 h
Method: EC 92/69
related to substance: butane-1,4-diol

Toxicity to daphnia EC50 Daphnia magna: 813 mg/l / 48 h
Method: EC 92/69
related to substance: butane-1,4-diol

NOEC Daphnia magna: >= 100.00 mg/l / 504 h
Method: OECD 202 part 2
related to substance: butane-1,4-diol

Toxicity to algae EC50 scenedesmus subspicatus: > 1000.00 mg/l / 72 h
Method: EC 92/69
related to substance: butane-1,4-diol

NOEC scenedesmus subspicatus: >= 1000.00 mg/l / 72 h
Method: EC 92/69
related to substance: butane-1,4-diol

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 7 / 10 |

Toxicity to bacteria

EC 10 Pseudomonas putida / 16 h

Method: Bringmann und Kühn, Z. Wasser Abwasser Forsch. 10, 87-98 (1977)

related to substance: butane-1,4-diol

13. DISPOSAL CONSIDERATIONS

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

14. TRANSPORT INFORMATION

Transport/further information

Not dangerous according to transport regulations.

15. REGULATORY INFORMATION

Labelling according to EC Directives

Statutory basis/list

Not subject to labelling provisions according to the Dangerous Preparations Directive (1999/45/EG).

National legislation

16. OTHER INFORMATION

Risk phrase (R phrase) texts

- butane-1,4-diol

R22

Harmful if swallowed.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 8 / 10 |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DequDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 9 / 10 |

Legend

| | |
|------------------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ASTM | American Society for Testing and Materials |
| ATP | Adaptation to Technical Progress |
| BCF | Bioconcentration Factor |
| BetrSichV | German Ordinance on Industrial Safety and Health |
| c. c. | closed cup (geschlossenes Gefäß) |
| CAS | Chemical Abstract Services |
| CESIO | European Committee of Organic Surfactants and their Intermediates |
| ChemG | German Chemicals Act |
| CMR | Carcinogenic-Mutagenic-toxic for Reproduction |
| DIN | German Institute for Standardization |
| DNEL | Derived No Effect Level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| GefStoffV | German Ordinance on Hazardous Substances |
| GGVSEB | German ordinance for road, rail and inland waterway transportation of dangerous goods |
| GGVSee | German ordinance for sea transportation of dangerous goods |
| GLP | Good Laboratory Practice. |
| GMO | Genetic Modified Organism |
| IATA DGR | International Air Transport Association – Dangerous Goods Regulations |
| ICAO-TI | International Civil Aviation Organisation - Technical Instructions |
| IMDG Code | International Maritime Dangerous Goods Code |
| ISO | International Organization For Standardization |
| LOAEL | Lowest Observed Adverse Effect Level |
| LOEL | Lowest Observed Effect Level |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | No Observed Effect Concentration |
| NOEL | No Observed Effect Level |
| o. c. | open cup (offenes Gefäß) |
| OECD | Organisation for Economic Cooperation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, Bioaccumulative, Toxic |
| PEC | Predicted Effect Concentration |
| PNEC | Predicted No Effect Concentration |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |

SAFETY DATA SHEET (EC 1907/2006)

Cercon ceram kiss Paste Liner
Cercon ceram love Paste Liner
Ducera AllCeram Paste Liner
Ducera press Paste Opaque
Duceragold Kiss Paste Opaque
Duceragold love Pastebonder Degunorm
Duceragold love Paste Opaque
Duceram Kiss Neutral Paste
Duceram Kiss Paste Opaque
Duceram love NE - Bonder
Duceram love Paste Opaque
Duceram Plus Neutral Paste
Duceram Plus Paste Opaque
SYMBIOceram Paste Opaque

DeguDent
A Dentsply Company

| | | | |
|---------------|---------------|---------------|-------------------|
| Material no. | | Version | 1.13 / GB |
| Specification | 130911 | Revision date | 30.08.2011 |
| VA-Nr | | Print Date | 08.03.2012 |
| | | Page | 10 / 10 |

| | |
|--------------|--|
| TA | Technical Instructions (German Ordinance) |
| TPR | Third Party Representative (Art. 4) |
| TRGS | Technical Rules for Hazardous Substances (German Regulations) |
| VCI | German "Verband der Chemischen Industrie e. V." |
| vPvB | Very Persistent, Very Bioaccumulative |
| VOC | Volatile Organic Compounds |
| VwVwS | German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes |
| WGK | German Water Hazard Class |
| WHO | World Health Organization |