

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	1.16 / GB
Specification	130911	Revision date	01.12.2014
VA-Nr	01,699,502	Print Date	01.12.2014
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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

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

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

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@dentsply.com

1.4. Emergency telephone number

Emergency information +49 (0)180 / 23 24-555 (international)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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Not a hazardous mixture according to Regulation (EC) No 1272/2008.

Classification as per Directive 67/548/EC or Directive 1999/45/EC

In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

2.2. Label elements

Labelling as per (EU) 1272/2008

Statutory basis Labelling not required according to EU-CLP Ordinance (1272/2008).

2.3. Other hazards

In case product dust is released:

Inhalation of ceramic dust (quartz dust) can cause silicosis.

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

3. Composition/information on ingredients

Chemical nature

The preparation contains:

Vitreous porcelain

Pigments

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

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

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%

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CAS-No.	106-69-4	EC-No.	203-424-6
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Texts of H phrases, see in Chapter 16
See chapter 16 for text of risk phrases

4. First aid measures

4.1. 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.
Consult a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

None known

Hazards

None known

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: dry powder
CO₂
alcohol-resistant foam
water spray

5.2. Special hazards arising from the substance or mixture

Hazard-determining flue gases might develop in case of fire:
Carbon monoxide
carbon dioxide

5.3. Advice for firefighters

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

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

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.
Handle in accordance with good industrial hygiene and safety practices.

6.2. Environmental precautions

Do not allow the product into the following compartments:
sewage water
stretches of water
drainage systems

6.3. 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.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.
Disposal considerations; see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes.
Handle in accordance with good industrial hygiene and safety practices.

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Storage

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.

German storage class

13 - Non Combustible Solids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

8. Exposure controls/personal protection

8.1. Control parameters

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8.2. Exposure controls

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:.

Glove material	Polychloroprene (PCP)
Material thickness	0.5 mm
Break through time	> 480 min
Glove material	Nitrile rubber/Nitrile latex (NBR)
Material thickness	0.35 mm
Break through time	> 480 min
Glove material	butyl-rubber
Material thickness	0.5 mm
Break through time	> 480 min
Glove material	Fluorinated rubber (FKM)
Material thickness	0.4 mm
Break through time	> 480 min
Glove material	Polyvinyl chloride (PVC)
Material thickness	0.5 mm
Break through time	> 480 min

Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

Eye protection

Safety glasses with side-shields

Hygiene measures

Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination 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

9.1. Information on basic physical and chemical properties

Appearance

Form	paste
Colour	depending on staining result
Odour	odourless

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pH	ca. 10	(40 g/l)	(20 °C)
Density	ca. 1.9 g/cm ³		(20 °C)
Water solubility	partly soluble		
Autoinflammability	Not capable of spontaneous combustion or heating.		

9.2. Other information

Other information No further physicochemical data were determined.

10. Stability and reactivity

10.1. Reactivity

no data available

10.2. Chemical stability

Under normal conditions: stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reaction with strong oxidants.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

11. Toxicological information

11.1. Information on toxicological effects

Animal experiment studies focusing on this formulation are not available.

Acute oral toxicity LD50 rat: 1525 mg/kg
Test substance: butane-1,4-diol

Acute inhalation toxicity LC50 Rat: > 5.1 mg/l / 4 h
Test substance: butane-1,4-diol

Acute dermal toxicity LD50 Rabbit: > 2000 mg/kg
Test substance: butane-1,4-diol

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Skin irritation	Rabbit not irritating Method: OECD Test Guideline 404 Test substance: Hexane-1,2,6-triol
Eye irritation	Rabbit not irritating Method: OECD Test Guideline 405 Test substance: Hexane-1,2,6-triol
Sensitization	no data available
Repeated dose toxicity	Oral Rat Testing period: 90 d NOEL: ca. 1000 mg/kg target organ/effect: body weight development negative Test substance: Hexane-1,2,6-triol Feeding experiments
	Oral Rat Testing period: 2 years NOEL: 100 mg/kg target organ/effect: Kidney, Liver Test substance: Hexane-1,2,6-triol Feeding experiments chronic
Mutagenicity assessment	no data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available
Human experience	Toxic effects from handling this product are unknown as yet.

12. Ecological information**12.1. Toxicity**

No ecotoxicological data is available for this product.

Toxicity to fish	LC50 Cyprinus carpio: > 1240.00 mg/l / 96 h Test substance: butane-1,4-diol Method: EC 92/69
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LC0 Cyprinus carpio: 1240 mg/l / 96 h

Test substance: butane-1,4-diol

Method: EC 92/69

Toxicity in aquatic
invertebrates

EC50 Daphnia magna: 813 mg/l / 48 h

Test substance: butane-1,4-diol

Method: EC 92/69

NOEC Daphnia magna: ≥ 100.00 mg/l / 504 h

Test substance: butane-1,4-diol

Method: OECD 202 part 2

Toxicity to algae

EC50 scenedesmus subspicatus: > 1000.00 mg/l / 72 h

Test substance: butane-1,4-diol

Method: EC 92/69

NOEC scenedesmus subspicatus: ≥ 1000.00 mg/l / 72 h

Test substance: butane-1,4-diol

Method: EC 92/69

Toxicity to bacteria

EC 10 Pseudomonas putida / 16 h

Test substance: butane-1,4-diol

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

12.2. Persistence and degradability

Biodegradability

Result: 96 %

Test substance: butane-1,4-diol

Method: OECD 301 E

readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

no data available

12.4. Mobility in soil

Mobility

No data available

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12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information

No data can be given because of insolubility in water.
Do not allow entrance in sewage water and soil.

13. Disposal considerations

13.1. Waste treatment methods

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

14. Transport information

Not dangerous according to transport regulations.

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

15.2. Chemical safety assessment

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

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16. Other information

Risk phrase (R phrase) texts

- **butane-1,4-diol**

R22 Harmful if swallowed.

Texts of the H-phrases

Further information

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

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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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
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
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
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	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
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
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern

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TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
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	Water Hazard Class
WHO	World Health Organization