

Material Safety Data Sheet

according to Regulation (EC) No 1907/2006

MSDS

Material Safety Data Sheet

DCMhotbond zircon, DCMhotbond fusio 12

Prepared By:

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Section 1 – Chemical Product and Company Identification

Product Name	DCMhotbond zircon, DCMhotbond fusio 12
Article Number	10004/10134
Package Size	10 g/ 10 g
Manufacturer	Dental Creativ Management GmbH
Manufacturer adress	Breite Straße 16, D-18055 Rostock
intended use	DCMhotbond zircon combines pure materials (zirconia with zirconia) DCMhotbond fusio 12 bonds unfamiliar materials (titanium with lithium disilicate and titanium with zirconium dioxide)
Telephone	+49 381 2035588
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eMail	info@dcm-hotbond.com
Emergency Telephone	+49 151 11705022

Section 2 – Hazard Identification

Emergency overview	Not applicable.
Classification according to GHS	Not applicable.
Label elements:	
Hazard Pictogram(s)	Not applicable.
Signal Word	Not applicable.
Hazard Statement	Not applicable.
Precautionary statement	
Prevention	Not applicable.
Response	Not applicable.
Disposal	Not applicable.

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Environmental Hazards	No relevant information.
Important Symptoms	See section 11 for more information.

Section 3 – Composition Information

DCMhotbond zircon

Alkaline- Alumo- Silicate matrix with further oxidic, homogeneous, bound constituents

Chemical Composition	Cas No.	Weight [%]	Trade Secret
SiO ₂	14808-60-7	N/A	*
Al ₂ O ₃	1344-28-1	N/A	*
K ₂ O	12030-88-5	N/A	*
Na ₂ O	1313-59-3	N/A	*
CeO ₂	1306-38-3	N/A	*
P ₂ O ₅	1314-56-3	N/A	*
ZnO	1314-13-2	N/A	*
SrO	1314-11-0	N/A	*
La ₂ O ₃	1312-81-8	N/A	*
SnO ₂	18282-10-5	N/A	*

[*] The exact percentage (concentration) of composition has been withheld as a trade secret.

DCMhotbond fusio

Alkaline-alkaline earth metal salt- alumo-silicate glass

Chemical Composition	Cas No.	Weight [%]	Trade Secret
SiO ₂	14808-60-7	N/A	*
Al ₂ O ₃	1344-28-1	N/A	*

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K ₂ O	12030-88-5	N/A	*
Na ₂ O	1313-59-3	N/A	*
CaO	1305-78-8	N/A	*
B ₂ O ₃	1303-86-2	N/A	*

[*] The exact percentage (concentration) of composition has been withheld as a trade secret.

Section 4 – First Aid Measures

General information	No special measures required.
Eye contact	Rinse the eyes with running water for several minutes with lid-gap open.
Skin contact	In general, the product is not skin irritant.
Inhalation	Move to fresh air immediately, consult a doctor if necessary.
Ingestion	Consult a doctor.

Section 5 – Fire Fighting Measure

Flash Point	N/A
Auto-Ignition Temperature	N/A
Extinguishing media	CO ₂ , extinguishing powder, sand
Special Fire-Fighting Procedures	Fight larger fires with water spray or alcohol resistant foam.
Unusual fire and explosion hazards	N/A

Section 6 – Accidental Release Measure

Personal precautions, protective equipment and emergency procedures
Not required

Environmental precautions
No special measures required.

Methods and materials for containment and cleaning up:
Pick up mechanically.
No dangerous substances are released.

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Section 7 – Handling and Storage

Handling	Avoid foaming.
Storage	No special requirements. Keep container tightly closed. Store in a dry place.
Other Precautions	N/A

Section 8 – Exposure Controls/ Personal Protection

Engineering Controls	Keep away from heat and open flame. Store in a cool, dry place.
Personal Protective Equipment	<u>Respiratory Protection</u> : Not necessary under normal conditions. <u>Skin and body Protection</u> : Not necessary under normal conditions. <u>Hand Protection</u> : Not necessary under normal conditions. <u>Eye Protection</u> : Not necessary under normal conditions.
Other Protective Equipment	Not applicable
Hygiene Measure	Do not eat, drink or smoke in work area. Precautionary measures in the handling of chemicals must be observed.

Section 9 – Physical and Chemical Properties

Form	Powder
Color	White
Odour	odourless
pH at 20°C	6 - 7
Flashpoint	N/A
Melting Point	Ca. 1000 °C
Boiling Point	N/A

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Spontaneous Inflammable	The product is not spontaneous inflammable.
Explosion Hazard	The product is not explosive.
Density	2.4 g/cm ³
Bulk Density	750 kg/m ³
Solubility in Water	insoluble

Section 10 – Stability and reactivity

Reactivity	Not available.
Chemical stability	The product is stabil under conditions described section 7.
Conditions to Avoid	Not applicable.
Incompatible Material	Not applicable.
Hazardous Decomposition Products	No hazardous decomposition products are known.
Possibility of Hazardous Reation	Not available.

Section 11 – Toxicological Information

Irritation	<u>Irritant effect on the eye</u> : no effect <u>Irritant effect on skin</u> : no effect
Sensitization	non-sensitizing
Neurological Effects	Not available.
Teratogenicity	Not available.
Reproductive Toxicity	Not available.
Mutagenicity (Genetic Effects)	Not available.
Toxicological Synergistic Materials	Not available.

Section 12 – Ecological Information

Ecological Toxicity	Not available.
Mobility in soil	Not available.

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Persistence and Degradability	Not available.
Bioaccumulation potential	Not available.
Other Adverse Effects	Not available.

Section 13 – Disposal Considerations

Product disposal recommendation	Small quantities can be disposed of with household waste.
Uncleaned packaging recommendation	Unpolluted packaging must be disposed of in the same way as the substance.

Section 14 – Transport Information

UN number	N/A
Proper UN shipping name	N/A
Transport Hazard Class	N/A
Packing Group	Verpackungsgruppe III
Transport Information	N/A
Environmental hazards	nein
Precautions for user	Trocken lagern
Mode of transport	by air (IATA), by sea (IMDG), by railway (RID), by road (ADR)

Section 15 – Regulatory Information

Marking according to EWG guidelines:

The usual precautions for handling chemicals must be observed. The product does not have to be labelled according to EC Directives / Ordinance on Hazardous Substances.

Special labelling of certain preparations:

Safety data sheet available on request for professional users.

National regulations:

Water hazard class: Generally not hazardous to water

Section 16 – Other Information

The information above is believed to be accurate and represents the best information currently available to us. This information is intended to provide you with information for the safe handling of the product specified in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, mixed or processed with other materials or undergoes processing, the information in this safety

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data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.