

Material Safety Data Sheet

according to Regulation (EC) No 1907/2006

MSDS

Material Safety Data Sheet

DCMhotbond zirconnect spray

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Section 1 – Chemical Product and Company Identification

Product Name	DCMhotbond zirconnect spray
Article Number	10032
Package Size	50 ml
Manufacturer	Dental Creativ Management GmbH
Manufacturer adress	Breite Straße 16, D-18055 Rostock
intended use	For the creation of a diffused glass matrix on zirconium dioxide for fastening and composite work
Telephone	+49 381 2035588
Fax	+49 381 20355829
eMail	info@dcM-hotbond.com
Emergency Telephone	+49 151 11705022

Section 2 – Hazard Identification

Emergency overview	Indication of danger: F+ - Extremely flammable R phrases: Extremely flammable
Classification according to GHS	<u>Hazard categories:</u> Aerosol: Aerosol 1 <u>Hazard Statement:</u> Extremely flammable aerosol Pressurised container: May burst if heated.
Label elements:	
Hazard Pictogram(s)	GHS02 
Signal Word	Danger
Hazard Statement	H222 - Extremely flammable aerosol H229 – Pressurised container: May burst if heated

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Precautionary statement	P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Environmental Hazards	No relevant information.
Important Symptoms	See section 11 for more information.

Section 3 – Composition Information

DCMhotbond zirconnect

Alkaline- Alumino- 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	*
Methyl Glucose Sesquistearat	68936-95-8	N/A	*

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

Active substance mixture with propellant gas.

Hazardous components:

EG-No.	Chemical Name	Quantity
CAS-No.	Classification	

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Index-No.	GHS-Classification	
REACH-No.		
200-875-2	Isobutan	50 - 60 %
75-28-5	F+ - Hochentzündlich R12	
601-004-00-0	Flam. Gas 1; H220	
200-661-7	2-Propanol	10 - 20 %
67-63-0	F - Leichtentzündlich R11	
603-117-00-0	Flam. Liq. 2; H225, H319; H336	

Full text of R and H phrases: see Section 16.

Section 4 – First Aid Measures

Eye contact	Immediately rinse carefully and thoroughly with eye wash or water. If symptoms occur or persist, consult an ophthalmologist.
Skin contact	Wash immediately with water when in contact with skin.
Inhalation	Move to fresh air immediately, consult a doctor if necessary.
Ingestion	Rinse mouth thoroughly with water. Drink plenty of water in small sips. Do not induce vomiting.

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	Wear self-contained breathing apparatus and chemical protection suit.
Unusual fire and explosion hazards	Flammable, vapours can form an explosive mixture with air. In case of fire, CO ₂ and CO may be formed.

Section 6 – Accidental Release Measure

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation to clear out of hazardous gases. Wear personal protective equipment (see section 8). Remove all ignition sources. Bring people to safety.

Environmental precautions

Avoid substances to get into drains or water.

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Methods and materials for containment and cleaning up:

Ventilate the affected area. Thoroughly clean soiled objects and surfaces to the local law and environmental regulations.

Section 7 – Handling and Storage

Handling	Wear personal protective equipment (see section 8). Use only in ventilated areas.
Storage	Avoid mechanical abuse. Storage preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at room temperature: 10-30°C Storage at high temperature (above 50°C) should be avoid.
Other Precautions	Flammable, vapours can form an explosive mixture with air. Keep away from sources of ignition - Do not smoke. Heating leads to pressure increase and risk of bursting. Use only in well ventilated areas. Take measures against electrostatic charges. Do not spray against flames or glowing objects. Due to the risk of explosion, prevent vapours from penetrating cellars, sewers and pits.

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. Wear suitable protective clothing and gloves if handling. <u>Hand Protection</u> : Wear suitable gloves if handling. <u>Eye Protection</u> : Not necessary under normal conditions. Wear safety glasses if handling.
Other Protective Equipment	Have a safety shower and eye wash fountain readily available in the immediate work area.
Hygiene Measure	Do not eat, drink or smoke in work area.

Section 9 – Physical and Chemical Properties

Form	Aerosol
Color	milky
Odour	Not Available

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pH	Not Available
Flashpoint	< 0°C
Lower Explosive Limit	1.5 Vol.-%
Upper Explosive Limit	11 Vol.-%
Density	0.8 g/cm ³
Solubility in Water	insoluble

Section 10 – Stability and reactivity

Reactivity	Not available
Chemical Stability	The product is stable under conditions described section 7.
Conditions to Avoid	Risk of ignition. Protect from heat. Do not protect against flames or on glowing counter stand spray. Keep away from sources of ignition - do not smoke. Keep out of the reach of children. Take measures against electrostatic charges. See protective measures under sections 7 and 8.
Incompatible Material	Oxidizing agents
Hazardous Decomposition Products	In case of fire, CO ₂ and CO may be formed.
Possibility of Hazardous Reaction	Not available

Section 11 – Toxicological Information

Irritation	<u>Irritant effect on the eye</u> : slightly irritant, but not relevant for classification. <u>Irritant effect on skin</u> : irritant.
Sensitization	non-sensitizing
Neurological Effects	Not available
Teratogenicity	Not available
Reproductive Toxicity	Not available
Mutagenicity (Genetic Effects)	Not available
Toxicological Synergistic Materials	Not available

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Section 12 – Ecological Information

Ecological Toxicity	Not available
Mobility in Soil	Not available
Persistence and Degradability	Not available
Bioaccumulation Potential	Not available
Other Adverse Effects	Not available

Section 13 – Disposal Considerations

Product disposal recommendation	Observe local, state and federal laws and regulations.
Uncleaned packaging recommendation	Non-contaminated and emptied packaging can be recycled.

Section 14 – Transport Information

UN Number	UN1950
proper UN shipping name	UN1950 - AEROSOLE
Transport Hazard Class	2.1
Packing Group	packing group II
Transport Information	 <div style="border: 2px solid black; padding: 5px; text-align: center; margin-top: 10px;"> UN 1950 AEROSOLE </div>
environmental hazards	no
Precautions for user	Storage at room temperature 10°C – 30°C
Mode of transport	by air (IATA), by sea (IMDG), by railway (RID), by road.

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Section 15 – Regulatory Information

EU regulatory information

1999/13/EC (VOC)

VOC 2004/42/EC ~ 720 g/l

Additional information

Regulation 96/82/EC for danger control following severe accidents with dangerous substances: Appendix I, Part 2, No 8, (Severso II)
The preparation is dangerous in the sense of Directive 1999/45/EC.
This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

National regulatory information

Employment restrictions:

Observe employment restrictions for young people.

Water contaminating class (D):

1-slightly water contaminating

Chemical safety assessment

Chemical safety assessment for substances in this mixture were not carried out.

Section 16 – Other Information

Full text of R phrases referred to under Sections 2 and 3

11- Highly flammable

12- Extremely flammable

Full text of H statements referred to under Sections 2 and 3

H220 - Extremely flammable gas

H222 - Extremely flammable aerosol

H225 - Highly flammable liquid and vapour

H229 - Pressurised container: May burst if heated

H319 - serious eye damage/eye irritation

H336 - specific target organ toxicity - single exposure (narcotic effects, drowsiness)

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