

Safety Data Sheet (EC) No. 1907/2006

1. Product- and Company Identification

<u>Trade name:</u>	DC Dentine-Composite Bond, art. No. 702233
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mBH Carl-Zeiss-Str.2 D-22946 Trittau, Germany
<u>Further information obtainable from:</u>	Tel.: +49 (0)4154/8437 0 Fax: +49 (0)4154/8437 33
<u>Information in case of emergency:</u>	Same as above.

2. Composition/information on ingredients

Light curing universal-bonding on basis of oligomeric dimethacrylates, initiators and stabilizers.					
Hazardous Ingredients:					
<u>Description:</u>	<u>CAS-Nr:</u>	<u>Index-No.:</u>	<u>EINECS No.:</u>	<u>R-phrases</u>	<u>Percentage %</u>
Methacrylate	--	--	607-134-00-4	--	

3. Hazards identification

<u>Hazard denotation</u>
Xi irritant
<u>Special hazard for human and environment</u>
R 36/37/38 Irritating to eyes, respiratory system and skin

4. First aid measures

<u>General advice:</u>	Take off with product contaminated clothes.
<u>After inhalation:</u>	Take person to fresh air.
<u>After skin contact:</u>	Remove by washing with water and soap.
<u>After eye contact:</u>	Rinse eyes an efficient time. Contact ophthalmologist if irritation is persisting.
<u>After swallowing:</u>	Contact a doctor.

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5. Fire-fighting measures

Suitable extinguishing media:

Foam, Dry powder, carbon dioxide, waterspray-stream, - Adjust fire-fighting-measures to ambiance.

For safety reasons unsuitable extinguishing media:

Not known

Special protective equipment for fire fighting:

Use conventional measures to combat chemical fires, that means use self-contained breathing apparatus (isolating-unit).

6. Accidental release measures

Personal precautions:

Arrange for fresh air.

Environmental precautions:

Do not drain unhardened material into canalization.

Methods for cleaning / absorption:

Dispose material under adherence to the local official rules for hazardous wastes.

Bigger quantities:

Pick up material mechanically (pump down).

Smaller quantities or leavings:

Pick up with binding material (such as: sand, diatomaceous earth, acid binding agent, universal binding agent, sawdust)

7. Handling and storage

Handling:

The conventional precautions for works with chemicals are to be adhered. Wear overall while working. Avoid skin contact by using of instruments and minimal-contact-techniques for fine-manual-works wear protection-gloves made of polyethylene for ex. Ehiparat protection-gloves afford protection for approx. 5-10 minutes (based on experiences of the past time/literature). Wash hands before and after work as well as before having a break.

Information about fire- and explosion protection:

No special measures necessary.

Storage conditions:

Store material at a dry, cool and sunprotected place.

Storage time:

3 years if storage conditions will be kept.

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8. Exposure controls/personal protection

Limit values for the exposition at work station and / or biological limit values:

Work station limit values (AGW) Germany

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

Personal protective equipment:

Pay attention of protection- and hygienic measures. Protection clothes must be stored separately. The usual precaution measures must be attended. Draggled and drenched clothes has to be taken off immediately.

Eye protection: Wear protection goggles when working with material

Hand protection: Sensibilisation: Wearing of applicable protection gloves is recommended. (by experience of the past / literature) for example Ethiparat®-gloves for 5-10 minutes, application of No-touch-Technik, minimal-contact-techniques is recommended

Breathing protection: Not necessary

Body protection: Wear business usual protection clothes.

Other protection measures: None.

Advices for hygienic at work station: Comply business usual protection- and hygienic measures. Preventive skin protection. Wash hands and skin after finishing work. Do not inhale steam.

9. Physical and chemical properties

<u>Appearance:</u>	Liquid
<u>Colour:</u>	Colourless (yellowlike)
<u>Odour:</u>	Esterlike
<u>Flash point:</u>	<65° C
<u>Solubility in water:</u>	At 20° C practible insoluble
<u>Acetic Acid:</u>	Soluble
<u>Isopropanol:</u>	Partly soluble
<u>Relative flashpoint:</u>	At 430° C (Methode DIM 51794)
<u>pH-value at 20°C:</u>	12 – 13

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10. Stability and reactivity

Conditions to avoid:

Beware of heat, solar radiation and light impact to avoid early slow polymerization.

Substances to avoid:

Radical former (product polymerises slowly at contact)

Hazardous decomposition products:

None, if used according to directions.

Thermal decomposition products:

None, if used according to directions.

Further information:

After considerably exceedance of storage time and / or exceedance of storage temperature it is possible that the product starts polymerizing under low heat impact.

11. Toxicological information

Estimated by means of containings

Acute toxicity:

At skin:	irritation
At Eyes:	irritation
At respiratory system:	irritation

Kinetic of the toxic reaction:

According the new Material Safety Data Sheet according to REACH, specifications about kinetic of the toxic reaction, metabolism of the substance and allocation of the substance in the human body must be mentioned at this place. Data for this is not available.

Swallow: Acute Toxicity (LD50): 8000mg/kg; species: Rat; source literature

Further Information: By appropriate exposure and conventionally use and to our experiences and information of the product causes no hazardous effects.

Further details: The product has to handled with the usual care when handling chemicals. Methacrylates may cause allergical reactions.

12. Ecological information

General references

Fish toxicity: acute fish toxicity (LC50) 350 mg/l
 Time of Exposition: 48 h
 Species Leuciscus idus
 Source literatur

Further detail to ecology:

Do not attend material under adherence to the local official rules for hazardous wastes.

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13. Disposal considerations

Substance / Preparation:

Not hardened material has to be disposed accordingly with notice of the local regulations of authority.

Disposal key according to AVV regulation:

55373 (other not halogenated organic solvent)

Package:

Packages that are not contaminated can be recycled.

14. Transport information

Land transport ADR/RID:

Classification

Class:

UN-Number:

Classification code:

Description of the good: C-Bond

Hazard cause:

Packaging

Packaging group: not applicable, because it is not a flammable substance

Hazard sheet: not applicable

Limited Quantities: no information

Maritime transport IMDG/GGVSea:

Classification

IMDG-Code:

UN-Number:

EmS:

Marine Pollutant:

Description of the good: C-Bond

Hazard cause:

Packaging

Packaging group:

Hazard sheet:

Air transport ICAO-TI and IATA-DGR:

Classification

Class:

UN-Number:

Description of the good: C-Bond

Hazard cause:

Packaging

Packaging group:

Hazard sheet:

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15. Regulatory information

Labelling according EU guidelines:



Xi; irritant

R-Phrases:

R 36/37/38 Irritating to eyes, respiratory-system and skin

S-Phrases:

S 26 In case of eye-contact, rinse off with plenty of water, consult doctor.

S 28 In case of skin-contact wash off with plenty of soap and water.

National Rules

Water hazard class:

Water Hazard Class 1 (Listed-material)

Classification to VbF:

Group A, Class I

Technical Instructions Air:

Class II

Waste-Key:

55373 other not halogenical organic solvents

16. Other information

Further applicable EG Guidelines:

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC. Substance Guideline (67/548/EWG), at last changed by the guideline 2006/121 EC. REACH-Guideline (EC) No. 1907/2006

Manufacturer's suggested application restriction:

Only for commercial use – no public product

R-phrases on which is referred in chapter 2 and 3:

R 36/37/38 irritants the eyes, respiratory systems and skin

Changes compared to the last version:

Assimilation according REACH-Regulation (EC) No. 1907/2006

Additional Information:

Origin: ¹ <http://www.baua.de>

² <http://www.arbeitsicherheit.de>

Some of the information presented and conclusions drawn herein are from sources other than direct test-data on the product itself. The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1907 / 2006.

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