

Material Safety Data Sheet

According to decree (EC) No. 1907/2006

1. Product- and Company Identification

<u>Product name:</u>	DC FlowFill
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mbH Carl-Zeiss-Str.2 D-22946 Trittau, Germany
<u>Contact:</u>	Tel.: ++49 (0)4154/8437 0 Fax: ++49 (0)4154/8437 33

2. Hazard Identification

<u>Additional hazard advices for human and environment:</u>
None.

3. Composition/Information on Ingredients

<u>Chemical characterization:</u>
Urethane-dimethacrylate-addukte, barium-glass, aliphatic Dimethacrylate.

4. First-Aid-Measures

<u>General advices:</u>	None.
<u>After inhalation:</u>	Not applicable, because product begin to boil a temperature over 250° C.
<u>After skin contact:</u>	The product will be applied in small doses in tooth cavities. After skin contact rinse with water and soap.
<u>After eye contact:</u>	Flush eyes. If symptoms persist, consult a doctor.
<u>After swallowing:</u>	Cause vomiting. If symptoms persist consult a doctor.

5. Fire-fighting-measures

<u>Suitable extinguishing agents:</u>
Dry powder, water spray, Foam, CO ₂ .
<u>Unsuitable extinguishing agents:</u>
Water Jet
<u>Protective equipment:</u>
Breathing apparatus
<u>Special equipment for fire-fighter:</u>
Staying in the danger zone only with suitable chemical safety clothes and air independent breathing apparatus.

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6. Accidental Release Measures

Personal precautions:

None.

Environmental precautions:

None.

Methods and materials for containment and cleaning up:

Remove mechanically. After lightcuring the product can be disposed.

7. Handling and storage

Handling

Information for safe handling:

None.

Information about fire- and explosion protection:

None.

Storage

Storage temperature:

Beware of light and temperatures over 25°C.

Advices for storing together:

None.

Expiry Date:

3 years at temperatures under 25°C.

Further information to storage conditions:

None.

8. Exposure Controls / Personal Protection

Components with limit values to be monitored for specific workplaces:

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

Additional Advices for organizing technical equipment:

No further details, look at 7.

Components, with reference to workstation supervising limit-values:

None

General protective and hygiene measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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Breathing protection:

Not necessary.

Eye protection:

Wear goggles when working with the hardened material.

Hand protection:

Not necessary.

Skin and Body-protection:

Wear business-usual working-cloths.

9. Physical and Chemical Properties

<u>Form:</u>	Paste.
<u>Colour:</u>	Yellowlike tooth-colour
<u>Odour:</u>	Characteristic.
<u>Point of freezing:</u>	-20° C
<u>Boiling point:</u>	250° C.
<u>Flash point:</u>	Not applicable.
<u>Flammability:</u>	>150° C.
<u>Flammable itself:</u>	Not applicable.
<u>Explosion limit:</u>	None.
<u>Explosion risk:</u>	Not explosive.
<u>Steam pressure at 20° C:</u>	<1 hPa
<u>Density at 20° C:</u>	2,1 g/cm ³
<u>Solubility in water at 20° C:</u>	Nearly insoluble.
<u>pH-Wert bei 20° C:</u>	Not applicable.

10. Stability and Reactivity

Conditions to avoid:

No decomposition at intended application.

Hazardous decomposition products:

No hazardous decomposition products known.

Hazardous reactions:

None, at incidence of light slow polymerisation.

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11. Toxicological Information

Acute toxicity:

LD50 Rat 16555 mg/kg, method FDA Guideline

Skin irritant:

Not irritant, exposition time: 24h, species rabbit, method occlusive, FDS Draise.

Sensitization:

Not sensitizing, species guinea pig, method GPMT.

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 for us.

Additional toxicological Advices:

When used and handled according to specification, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EC-Lists.

12. Ecological Information

Ecotoxic effects:

Biological effects: no information

Fish toxicity: no information

Water organism: no information

Daphnia toxicity: no information

Further information:

Do not allow to reach body of water.

Bioakkumulation potential:

No data available

Effect of the determination of the PTB- and vPvB-Report:

Endocrine disruption potential.

If the material causes hormonal effects or prevents them is unknown.

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13. Disposal Considerations

Substance / Preparation:

Dispose of with attention to the local authority regulations.

Uncured Product:

Disposal key according to disposal index regulations (AVV): 55902 (luting and spatula disposal)

Cured product:

With attention to the respectively local/national regulations normally without special attendance.

Packaging:

Packaging material is composed of polyester and will be disposed of with household waste.

14. Transport Information / Rules

Landtransport ADR/RID and GGVS/GGVE:

ADR/RID: no hazardous material

GGVS/GGVE: no hazardous material

Post Germany: permitted

Seagoing vessel transport IMDG/GGVSea:

No hazardous material.

Air transport ICAO-TI and IATA-DGR:

ICAO-TI/IATA-DGR: no hazardous material

UN/ID-Number : 1247

Transport/further details: no hazardous material according to the regulations above.

15. Regulatory Information

Labelling according EU guidelines

The product must not be labeled.

At the moment there exist neither registrations to title 7 either limits to title 8 for the product.

Hazardous components requiring declaration / special labelling:

None.

National Rules

Water Hazard Class:

1 (slightly hazardous for water) (self classification)

Safety Assessments:

Safety Assessments for substances in this preparation were not executed

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16. Further 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

Additional Information:

Origin: ¹ <http://www.baua.de>

² <http://www.arbeitssicherheit.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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