

## Safety Data Sheet (EC) No. 1907/2006

### 1. Product- and Company Identification

<u>Trade name:</u>	DC Flow, art. No. 716370 - 716374
<u>Manufacturer:</u>	DC Dental Central Großhandelsges.mbH Carl-Zeiss-Str.2 <b>D-22946 Trittau, Germany</b>
<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

<b>Chemical characterization</b>					
Mixture of dimethacrylates, alcohol, phosphonic acid acrylate, HEMA (hydroxyethyl methacrylate), SiO <sub>2</sub> , initiators and stabilizers					
<b>Hazardous Ingredients:</b>					
<u>Description:</u>	<u>CAS-Nr:</u>	<u>EINECS:</u>	<u>Classification:</u>	<u>R-phrases</u>	<u>Gew.%</u>
Bis-GMA	1565-94-2	--	Xi	R 36/38	10 - 25
urethane dimethacrylate	72869-86-4	276-957-5	Xi	R 36-43	10 – 25
Triethylenglycol dimethacrylate	109-16-0	--	Xi	R 36/37/38-43	2,5 - 10
<u>Further information:</u> For the wording of the listed risk phrases refer to section 16.					

### 3. Hazards identification

<u>Classification according to Directive 67/548/EEC or Directive 1999/45/EC:</u>			
Xi	Irritant	R 36	Irritating to eyes.
Xi	Sensitising	R 43	May cause sensitisation by skin contact.
<u>Information concerning particular hazards for human and environment:</u>			
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.			
<u>Classification system:</u>			
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.			
<u>Labelling according to EU guidelines:</u>			
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.			

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Code letter and hazard designation of product:

Xi Irritant

Hazard-determining components of labelling:

urethane dimethacrylate, triethyleneglycol dimethacrylate

Risk phrases:

R 36 Irritating to eyes.

R 43 May cause sensitisation by skin contact.

Safety phrases:

S 24 Avoid contact with skin.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37 Wear suitable gloves.

S 60 This material and its container must be disposed of as hazardous waste.

Other hazards:

Results of PBT and vPvB assessment: PBT: Not applicable; vPvB: Not applicable.

#### 4. First aid measures

After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion: If symptoms persist consult doctor.

Further information: No further relevant information available.

#### 5. Fire-fighting measures

Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:

No further relevant information available.

Advice for firefighters:

Protective equipment: No special measures required.

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### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Not required.

Environmental precautions:

No special measures required.

Methods and material for containment and cleaning up:

Pick up mechanically.

Reference to other sections:

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### 7. Handling and storage

#### Handling:

Precautions for safe handling:

Only adequately trained personnel should handle this product.

Information about fire - and explosion protection:

No special measures required.

#### Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Keep container tightly sealed. Protect from exposure to the light.

### 8. Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists valid during the making were used as basis.

Eye protection: Safety glasses.

Respiratory protection: Not required.

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<u>Hand protection:</u>	<p>Protective gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</p> <p>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.</p> <p>Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p> <p>Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> <p>Not suitable are gloves made of the following materials: Commercial medical gloves do not provide protection against the sensitizing effect of methacrylates.</p>
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### 9. Physical and chemical properties

<u>Form:</u>	Pasty.
<u>Colour:</u>	Cream coloured.
<u>Odour:</u>	Characteristic.
<u>Flash point:</u>	Not applicable.
<u>Flammability (solid, gaseous):</u>	Not determined.
<u>Self-igniting:</u>	Product is not selfignitng.
<u>Danger of explosion:</u>	Product does not present an explosion hazard.
<u>Explosion limits:</u>	Not determined.
<u>Vapour pressure:</u>	Not applicable.
<u>Density at 20° C:</u>	1,8 g/cm <sup>3</sup> bei 20° C
<u>pH-value:</u>	Not applicable.
<u>Relative density:</u>	Not determined.
<u>Vapour density:</u>	Not applicable.
<u>Evaporation rate:</u>	Not applicable.
<u>Solubility in water:</u>	Unsoluble.

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<u>Segregation coefficient (n-octanol/water):</u>	Not determined.
<u>Viscosity:</u>	Not applicable.
<u>Other information:</u>	No further relevant information available.

### 10. Stability and reactivity

<u>Reactivity:</u>	No further relevant information available.
<u>Chemical stability:</u>	Stable under normal handling and storage conditions.
<u>Thermal decomposition / conditions to be avoided:</u>	No decomposition if used according to specifications.
<u>Possibility of hazardous reactions:</u>	No dangerous reactions known.
<u>Conditions to avoid:</u>	Protect from exposure to the light.
<u>Incompatible materials:</u>	No further relevant information available.
<u>Hazardous decomposition products:</u>	None under normal conditions of storage and use.

### 11. Toxicological information

<u>Acute toxicity:</u>	
Primary irritant effect on the skin:	No irritant effect.
Primary irritant effect on the eye:	Irritating effect.
Sensitization:	Sensitization possible through skin contact.
<u>Additional toxicological information:</u>	The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant
<u>Sensitisation:</u>	May cause sensitisation by skin contact.

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### 12. Ecological information

**Toxicity:**Acquatic toxicity:

No further relevant information available.

Persistence and degradability:

No further relevant information available.

Behaviour in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

**Additional ecological information:**General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects:

No further relevant information available.

### 13. Disposal considerations

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

20 01 39 plastics

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

### 14. Transport information

**Land transport ADR/RID (cross-border)**ADR/RID class: --**Maritime transport IMDG**

IMDG Class: --

Marine pollutant: No

**Air transport ICAO-TI and IATA-DGR**

ICAO/IATA Class: --

Special precautions for user:

Not applicable.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

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### 15. Regulatory information

Other regulations, limitations and prohibitive regulations:

The product is a medical device according to the EC-directive 93/42/EEC.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

### 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

- R 36 Irritating to eyes.
- R 36/37/38 Irritating to eyes, respiratory system and skin.
- R 36/38 Irritating to eyes and skin.
- R 43 May cause sensitisation by skin contact.