



# Material Safety Data Sheet

-Dynamic Flow-

PRESIDENT DENTAL

## 1. Identification of the substance/preparation and of the company/undertaking

Product Name : Dynamic Flow Light Cure Flowable Composite  
Application/Use : Dental Filling Material  
Manufacturer : President Dental GmbH  
Contact Address : Zehentstadelweg 7 81247 München Germany  
Tel : +49 89 127 660 240  
Fax : +49 89 127 660 269  
Emergency Phone Tel : +49 89 127 660 268

## 2. Composition/information on ingredients

### Information on ingredients

Chemical name	CAS No.	w/w %	EC Number	Symbol	R-Phrases
Bisphenol A dimethacrylate	1565-94-2	1-10	-	Xi	R36/37/38
Urethane Dimethacrylate	72869-86-4	1-5	-	-	-
Ethoxylate bisphenol A dimethacrylate	41637-38-1	<30	-	Xi	R36/37/38-43
Triethyleneglycol dimethacrylate	109-16-0	1-5	-	Xi	R36/37/38
Trimetholtrimethacrylate	3290-92-4	<1	-	Xi	R36/37/38
Glycerol diemthacrylate	1830-78-0	<1	-	Xi	R36/37/38
Barium aluminium boro silicate		<60	-	-	-

## 3. Hazards identification

- **Physical/chemical hazards** : May cause allergic skin reaction
- **Human health hazards** : Not known to cause significant health problems. Considered a nuisance dust. Avoid inhalation and keep dust out of the eyes.
- **Environmental hazards** : None

## 4. First aids measures

- **Inhalation** : If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.
- **Ingestion** : Do not induce vomiting. Material is chemically inert.
- **Skin contact** : In case of contact. Immediately wash skin with water and soap.
- **Eye contact** : If scratches or punctures occur, seek medical attention immediately.



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## 5. Fire fighting measures

### Extinguishing media

- **Suitable** : Water, Foam, Carbon Dioxide, Dry Chemical
- **Not suitable** : N/A
- **Special fire fighting procedures** : Self contained breathing apparatus to prevent smoke inhalation.
- **Unusable fire/explosion hazards** : None
- **Hazardous thermal (de)composition products** : Burning may produce :Carbon Monoxide, Carbon Dioxide
- **Protection of fire fighters** : Use breathing apparatus (self-contained breathing apparatus with full face shield). Wear suitable protective clothing

## 6. Accidental release measures

- **Personal precautions** : Wear protective clothing
- **Environmental precautions** : None
- **Methods for cleaning up** : Ventilate area of fresh air.

## 7. Handling and storage

- **Handling** : Always wear gloves and eye protection. Product is intended for dental use only.
- **Storage** : Keep out of reach of children. Protect from exposure to direct sun light. Keep container closed. Store in cool place.

## 8. Exposure controls/personal protection

- **Precautions for use** : Wash hands before breaks and after work.
- **Respiratory protection** : None required during normal intended use of this product
- **Skin and body** : Wear suitable protective clothing.
- **Hands** : Wear suitable gloves.
- **Eyes** : With sufficient extraction or closed system; safety goggles.

## 9. Physical and chemical properties

- |                                       |  |
|---------------------------------------|--|
| - <b>Physical state</b> : Paste       | - <b>Solubility in water</b> : Insoluble |
| - <b>Color</b> : Tooth color          | - <b>Density</b> : 1.5 g/cm <sup>3</sup> |
| - <b>Odor</b> : Slightly acrylic odor | - <b>Flash point</b> : Not-regulated     |



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- Boiling point	: Decomposes	- Autoignition temperature	: N/A
- Melting point	: N/A	- Lower explosion limit	: N/A
- Vapor pressure	: N/A	- Upper explosion limit	: N/A
- Specific gravity(H <sub>2</sub> O=1)	: 1.5	- Viscosity	: N/A

## 10. Stability and reactivity

- Stability	: Stable
- Condition to avoid	: Do not heat
- Materials to avoid	: Not known
- Hazardous reactions	: May not accurate
- Hazardous decomposition products	: CO

## 11. Toxicological information

- Acute toxicity	: N/A
- Primary effects to skin	: May mildly irritate skin
- Primary effects to eyes	: May mildly irritate the eye
- Primary effects to respiratory system	: Not an acute inhalation hazard
- Sensitization	: Repeated or prolonged contact with the not polymerized may cause sensitization for methacrylates.
- Additional toxicological info	: N/A

## 12. Ecological information

- General information	: N/A
- Classification of water endangerment	: N/A

## 13. Disposal considerations

- Product	: Not considered a RCRA hazardous waste as identified in Fed. Reg. 40CFR261. If this product cannot be used as directed by the label, contact the local Environmental Control Agency or Agent.
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## 14. Transport information

- DOT shipping name	: Same as product name	- <u>Air transport ICAO-Ti and</u>	: N/A
- DOT hazard class	: Not-regulated	<u>IATA-DGR class</u>	: Not-regulated



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- UN number : N/A	- UN number : N/A
- <u>Sea transport IMDG/GGV</u> : N/A	- MFGA number : N/A
<u>sea class</u>	
- EMS number : N/A	

## 15. Regulatory information

- Hazard designation	: Irritant						
- Hazard symbols	: Xi						
- R-phrases	: R36/37/38-43 : Irritating to eyes, respiratory system and skin. May Cause sensitization by skin contact						
- S-phrases	: S26-36 : incase of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing						
- Other labeling	: Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep out of the reach of children.						
- SARA 313 toxic chemicals	<table border="1"><thead><tr><th><u>Chemical name</u></th><th><u>CAS-No.</u></th><th><u>Weight %</u></th></tr></thead><tbody><tr><td>None</td><td></td><td></td></tr></tbody></table>	<u>Chemical name</u>	<u>CAS-No.</u>	<u>Weight %</u>	None		
<u>Chemical name</u>	<u>CAS-No.</u>	<u>Weight %</u>					
None							
- Canadian regulations require the inclusion of the following statements under "Regulatory Information"; "This product has been classified in accordance with the hazard criteria of the controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations."							

## 16. Other information

The information contained in the Safety data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

### Full text of the R-phases in section 2

R36/37/38-43 : Irritating to eyes, respiratory system and skin. May Cause sensitization by skin contact

### HISTORY

- Date of printing	: 11-05-2009
- Date previous issue	: 11-05-2009
- Date of issue	: 11-05-2009
- Prepared by	: PRESIDENT DENTAL GmbH