

## 1. Chemical Product and Company Identification

**Product name:**

Prebond

**Application of the product:**

Connection between the dentin and composite

**Manufacturer:**

President Dental GmbH

**Street:**

Zehenstadelweg 7

**Zip-Code / Town:**

81247 , Munchen

**Contact for technical information:**

+49 (0) 230 39228772

**Phone / Fax / E-Mail:**

+49 89 127 660 240 / +49 89 127 660 269 / info @ presidentdental.com

**Emergency Information:**

Mr.Mehmet Dogan

## 2. Hazard Identification:

**Potential Hazards:**

Xi, Irritating

**Categorization:** Xi, R36/37/38 Irritating to eyes, respiratory system and skin

Xi, R43 May cause sensitization by skin contact

**Additional hazard advices for human and environment:**

none

## 3. Composition/Information on Ingredients

**Chemical characterization:**

Hazardous Ingredients	Cas-No.	EINECS-No.	Percentage (%)
1,6-Hexandioldimethacrylate	6606-59-3	229-551-7	0-30 %
Aliphatic urethane dimethacrylate			0-30 %
Bisphenol-A-bis (hydroxypropylmethacrylate)	1565-94-2		0-40 %
2-Hydroxyethylmethacrylate	868-77-9	212-782-2	0-6 %

#### **4. First-Aid-Measures**

**General Advices:**

Take off with product contaminated clothes.

**After skin contact:**

Remove by washing water and soap.

**After eye contact:**

Rinse eyes an efficient time while eyes are open. Contact ophthalmologist if irritation is persisting.

**After inhalation:**

Take person to fresh air.

**After swallowing:**

Contact a doctor.

#### **5. Fire-Fighting-Measures**

**Suitable extinguishing agents:**

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

**For safety reasons unsuitable extinguishing media:**

Not known

**Protective equipment for fire-fighters:**

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 protection measures:**

Do not drain material into canalization.

**Methods for cleaning / absorption:**

Bigger quantities: Pick up material mechanically. (pump down) observe „exprotection“

Smaller quantities: 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. Ethiparat  
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.

**Advice for safe handling:**

Observe guidance of enclosed instruction for use.  
Only for intended application.

**Technical Measures:**

Arrange for adequate ventilation.

**Information about fire- and explosion protection:**

No special measures necessary.

**Storage conditions:**

Storage temperature: Store material at a dry, cool and sunprotected place.

Storage time: 3 years if storage conditions will be kept.

**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 at handling with chemicals must be attended.

**Breathing protection:** If bigger quantities (at least 100 or 200 ml) were grouted:  
Temporary industrial gas mask, filter A  
Breathing protection for smaller quantities (10 ml or less):  
Not necessary

**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-Technique, minimal-contact-techniques is recommended.

**Body protection:** Wear business usual protection clothes.

**Advices for hygienic**

**At work station:** Comply business usual protection- and hygienic measures.  
Preventive skin protection. Wash hands and skin after finishing work.

**Other protection measures:** None

## 9. Physical and chemical Properties

### Appearance:

Form:	liquid
Appearance:	viscose liquid
Colour:	colourless (yellowlike)
Odour/Flavour:	acrylates / methacrylates

### Safety relevant data:

Flash point:	not available (approx. > 100 °C) Appreciated by the flash point of the ingredients. No symbol necessary
Solubility in water:	insoluble in water
Solubility in acetic acid:	soluble
Solubility in isopropanol:	partly soluble
Relative density:	not applicable
PH-Value:	not applicable

## 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.

### 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

**At skin:** It can not be excluded that irritations occur during longer or frequent skin contact.

**At eyes:** Unter longer impact of the product and irritation of the mucous can be caused.

**Further information:** Longer contact with skin and eyes should be avoid. Aerosol and vapors in high concentration can cause irritation of the mucous / respiratory system. (Nose, fauces, lung)

### 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.

**Further information:**

By appropriate exposure and conventional use and to our experiences and information the product causes no hazardous effects.

**Further details:**

The product has to be handled with the usual care when handling chemicals. Methacrylates may cause allergic reactions.

**12. Ecological information**

**Persistence and degradability:**

Not applicable

**Further information:**

Do not allow product to reach ground water, body of waters or sewage system.

**Bioaccumulation 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 to us.

**13. Disposal considerations**

**Substance / Preparation:**

To dispose of accordingly with notice of the local regulations of authority.  
Do not empty into drains.

**Disposal key according to AVV regulation:**

16 03 05 (see disposal code for dental products with methacrylates)  
Organic disposal, that contains hazardous substances.

**Package:**

Packages that are not contaminated can be recycled.

**14. Transport informations/rules**

**Land transport ADR/RID**

No hazardous material in terms of transport rules

**Maritime transport IMDG/GGVSea**

No hazardous material in terms of transport rules

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

No hazardous material in terms of transport rules

## 15. Regulatory Information

### Labelling according EU guidelines:

Code letter and hazard description of the product:



Xi, irritant

### Hazard decisive components for the labelling:

Contains: --

### R-Phrases:

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

43 May cause sensitization by skin contact

### Safety Assessments:

Safety Assessments for material in this formulation were not realized.

### National Rules:

Water hazard class: Water Hazard Class 2 (Estimation on the basis of the ingredients)

## 16. Other information

### Further applicable EG Guidelines:

Guideline for preparation (1999/45/EC), at last changed by the guideline 206/8/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:

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

43 May cause sensitization by skin contact

### Changes compared to the last version:

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

Revision of the water hazard class

### Department issuing MSDS:

Mehmet Dogan (Phone: +49 (0) 203 392 287 72)

### Additional Information:

Origin: <http://www.baua.de>

<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.

Date of printing: 09.04.2013

**Material Safety Data Sheet**  
**According to decree (EC) No. 1907 / 2006**



Revision: 3  
Revision Date: 22.09.2011 LK

---

**Disclaimer of Liability:**

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.