

# Material Safety Data Sheet

Revision Date: 21.09.2005

(91/155/EWG)

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## 1. Chemical product and company identification

**Product name:**

Hybrid Composite (anterior/posterior)

**Supplier:**

DMG, Dental-Material Gesellschaft mbH  
D 22531 Hamburg, telephone : (+49) 040 - 84 00 60

## 2. Composition / Information on ingredients

**Common chemical name / Generic name:**

Preparation of acrylic resin, glass powder and silica.  
Contains urethane dimethacrylate, aliphatic dimethacrylate, aromatic dimethacrylate.

## 3. Hazards Identification

None, if handled according to directions.  
Irritating to eyes, respiratory system and skin.

## 4. First-aid measures

**In case of inhalation:** In case of prolonged exposure take patient to open air.  
**In case of skin contact:** Wash with soap and water.  
**In case of eye contact :** Rinse with plenty of water, consult a physician.  
**In case of ingestion:** Immediately seek medical advice.

## 5. Fire-fighting measures

**Extinguishing media:** Powder, sand, foam, carbon dioxide, water spray.  
**Not suitable extinguishing media:** direct jet of water

## 6. Accidental release measures

**Personal precautions:** Use only in well-ventilated areas.  
**Environmental precautions:** Do not empty into drains.  
**Methods for cleaning up:** Take up mechanically.

## 7. Handling and storage

**Handling:**

**Technical measures:** Keep container tightly closed.  
**Safe handling advice:** Wear suitable gloves. Avoid contact with eyes.

**Storage:**

**Technical measures:** Keep container in a well-ventilated place.  
**Storage conditions:** Keep container tightly closed. Keep in a dark, cool place.  
**Recommended packaging material:** Container of solvent-stable plastics.

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## 8. Exposure controls/personal protection

**Engineering measures:** Use only in well-ventilated areas.

**Personal protective equipment:**

**Respiratory protection:** Do not breathe vapour.

**Hand and skin protection:** Rubber gloves.

**Eye protection:** Goggles.

**Hygiene measures:** When using do not eat or drink.

## 9. Physical und chemical properties

**Appearance:** Slightly yellowish paste

**Odour:** esterlike, weak

**pH-value:** not applicable

**Changes in physical state:**

**Decomposition temperature:** > ca. 200 °C

**Flashpoint:** > 150 °C

**Explosion properties:** not established

**Vapour pressure:** < 1 mbar / 20 °C

**Rel. vapour density:** > 1

**Density:** ca. 1.8 g/cm<sup>3</sup>

**Solubility in water:** ca. 1 g/l / 20 °C

## 10. Stability and reactivity

**Thermal decomposition:** at ca. 200 °C

No decomposition, if handled according to directions.

**Hazardous reactions:** None, if handled and stored according to directions.

**Conditions to avoid:** Heat, light.

**Materials to avoid:** Free radicals, reducing agents, heavy metal ions.

**Hazardous decomposition products:** In case of fire acrid acrylic fumes.

Cures on exposure to visible or UV-light.

## 11. Toxicological information

**Acute oral toxicity:** LD<sub>50</sub> (Ratte) > 5000 mg/kg

**Irritation of skin :** Irritating on prolonged exposure.

**Irritation of eye:** Irritating on prolonged exposure.

**Specific effects:** Allergic reactions to methacrylates are possible.

## 12. Ecological information

Do not discharge into drains or the environment.

**Persistence und degradability:** No data available for the preparation.

## 13. Disposal considerations

**Waste from residues:** Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

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## 14. Transport information

**Additional information:** Not dangerous cargo.

## 15. Regulatory information

**Labelling according international regulations:** Xi, Irritant. Contains methacrylic ester.

**Symbols of danger:** St Andrew's cross.

**R-Phrases:** 36/37/38

Irritating to eyes, respiratory system and skin.

**S-Phrases:** 26 - 28

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

After contact with skin wash immediately with plenty of water and soap.

## 16. Other information

None.

The data given here is based on current knowledge and experience. The data does not signify any warranty with regard to the product's properties.