

Material Safety Data Sheet

Revision Date: 31.3.2004

(91/155/EWG)
1040-25-02

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1. Chemical product and company identification

Product name:

PermaCem, PermaCem Dual

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 aliphatic dimethacrylate, aromatic dimethacrylate, carboxylic methacrylate.

3. Hazards Identification

None, if handled according to directions.
Harmful by inhalation, in contact with skin and if swallowed.
Irritating to eyes, respiratory system and skin. Risk of serious damage to eyes.

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 : Immediately 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, with inert fluid-binding material.

7. Handling and storage

Handling:

Technical measures: Keep container tightly closed.
Safe handling advice: Wear suitable gloves and goggles. 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: Take off immediately all contaminated clothing. When using do not eat or drink.

9. Physical und chemical properties

Appearance: Yellowish viscous liquid

Odour: esterlike, weak

pH-value: ca. 2.5

Changes in physical state:

Boiling temperature: > 200 °C

Decomposition temperature: > 60 °C

Flashpoint: > 125 °C

Explosion properties: not established

Vapour pressure: < 1 mbar / 20 °C

Rel. vapour density: > 1

Density: ca. 1.9 g/cm³

Solubility in water: < 5 % / 20 °C

10. Stability and reactivity

Thermal decomposition: at ca. 60 °C

No decomposition, if handled according to directions.

Hazardous reactions: None, if handled and stored according to directions. Polymerizes on heating.

Conditions to avoid: Light, heat.

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

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

11. Toxicological information

Acute oral toxicity: LD₅₀ (rat) > 1000 mg/kg.

Irritation of skin : May cause sensitization by skin contact.

Irritation of eye: Severe irritation. Risk of serious damage to eyes.

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: Xn, harmful. Contains methacrylic ester.

Symbols of danger: St Andrew's cross.

R-Phrases: 20/21/22 - 36/37/38 - 41

Harmful by inhalation, in contact with skin and if swallowed.

Irritating to eyes, respiratory system and skin.

Risk of serious damage to eyes.

S-Phrases: 24/25 - 26 - 28 - 37/39

Avoid contact with skin and eyes.

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.

Wear suitable gloves and eye/face protection.

Waste: EWC-Key 070208 (Waste from MFSU of plastics, synthetic rubber and man made fibres; other still bottoms and reaction residues).

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.