

EC-Material Safety Datasheet according to 93/112 EEC & 91/155 EEC for the powder

Trade name:

DC PRESS Inject Powder

Issue: A4 dated: 15.04.09

1. Identification of the substance / preparation and the company

Information on the product

Trade name: DC PRESS Inject

Use / Purpose: Denture Base Resin, self-curing acrylic, powder component of the 2-component acrylic system based on methyl methacrylate (powder and liquid), for the purpose of crafting individual dentures.

Information on the manufacturer

DC Dental Central Großhandelsges.mbH

Carl-Zeiss-Str.2

D-22946 Trittau

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Fax: +49 (0)4154 / 84 37 – 33

email: office@dental-central.de

2. Composition / Information on ingredients

Chemical characterization

Copolymer based on methyl methacrylate

Hazardous ingredients

Benzoyl peroxide

concentration < 1 %

chemical formula -

CAS-Nr. 94-36-0

EG-Nr. 202-327-6

INDEX-Nr. 617-008-00-0

hazard symbols E, Xi

R-phrases 2-36-43

3. Hazards identification

May cause sensitization on skin contact

4. First aid measures

After inhalation: In case of inhalation remove casualty to fresh air and allow to rest. If irritation persists seek medical advice.

After contact with skin: In case of contact with skin wash off immediately with soap and water. If skin irritation occurs, seek medical advice.

After contact with eyes: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

After ingestion: If irritations occur seek medical advice.

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5. Fire-fighting measures

Suitable extinguishing media:

Water spray jet, foam, dry powder, carbon dioxide

Unsuitable extinguishing media:

Full water jet

Special protective equipment:

Wear self-contained respiratory protective device

Information for Fire department / Fire-fighters

Just started fires can still be extinguished with water. As soon as the acrylic started to melt and the viscous mass is on fire this material may behave like burning oil or grease when in contact with water. It is recommended to extinguish the fire with an extinguishing gel such as Hydrex gel.

6. Accidental release measures

Measures for cleaning

Pick up mechanically and dispose in accordance to government regulations.

7. Handling and storage

Instructions on safe handling

Avoid dust formation.

Information on fire and explosion protection

Take precautionary measures against static discharges. In the event of fire, cool the endangered product with water.

Requirements for storage areas and containers

Store dry. Keep out of direct sunlight.

8. Exposure controls and personal protection

Components or products of decomposition according to point 10, with limit values related to the workplace which requires monitoring.

LT-Value for

Methyl methacrylate	210 mg/m ³
CAS-Number	80-62-6
maximum limitation category	I

Remarks

Y: Danger of damage to unborn children is not to be feared as long as the LT-value does not exceed above mentioned amount.

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LT-Value

Benzoyl peroxide	5 mg/m ³
CAS-Number	94-36-0
maximum limitation category	I

8. Exposure controls and personal protection - (continued)

General protective measures:	Do not inhale dusts.
Hygiene measures:	Follow the regular standards of occupational hygiene
Respiratory protection:	Filtering half mask in case of dust formation.
Eye protection:	Wear protective goggles.
Body protection:	not necessary
Hand protection:	Wear protective gloves made of butyl rubber, break through time 300 min (EN 374). The selection of 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 cannot be calculated in advance and has to be checked prior to application.
general information:	Gloves should be changed regularly, especially after over excessive contact with the product. A different type of glove should be considered for each workspace.

9. Physical and chemical properties

Appearance

Form:	Powder
Colour:	white or pink or pink with fibres
Odour:	odourless

Changes in physical state

Softening temperature	approx. 102 °C
Melting point	not applicable
Flashpoint	> 250 °C (Method ASTM-D 1929-68)
Ignition temperature	> 400 °C (Method ASTM-D 1929-68)
Self ignition ability	not applicable
lower explosion limit	not determined
upper explosion limit	not determined
vapour pressure	not applicable
Density	1,16 g/cm ³ (at 20 °C)
bulk density	600 to 650 Kg/m ³ (at 20 °C)
solubility in water	insoluble
solubility in oil	not determined
qualitative solubility	in esters, ketenes and chlorinated hydrocarbons readily soluble
pH-value:	not applicable
dynamic viscosity	not applicable

Additional Information

Dust explosions are generally to be expected with dust-forming organic products.

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10. Stability and reactivity

Thermal decomposition: > 250 °C
hazardous reactions: No hazardous reactions known.
hazardous decomposition products: None when used as directed. During thermal decomposition combustible, the eyes and respiratory system irritating vapours are formed, consisting mainly of **Methyl methacrylate**.

11. Toxicological information

The following information is related to the component **benzoyl peroxide**.

Acute oral toxicity: There is no toxicological data available for his product.
Sensitization: Allergic reactions on humans were recorded.
Carcinogenicity: The substance shows tumour promoting properties in animal test.
Additional information on toxicology: The fine particles contained in the product may cause mechanical irritations of the skin, eyes and mucous membranes.

12. Ecological information

Additional ecological information

Do not allow to enter soil, waterways or waste water.

13. Disposal considerations

Product (Components, powder and liquid)

European waste code: **07 02 99**
Waste name: Not yet cured acrylic leftovers, compounds or components.
Recommendations: Must be disposed of in accordance with the regulations of the local authorities and the disposal company in a suitable and licensed facility.

Already cured acrylic leftovers

European waste code: **17 02 03**
Waste name: other cured acrylic waste
Recommendations: Can be disposed of in accordance with the regulations of the local authorities and the disposal company in a suitable and licensed facility.

Contaminated packaging:

Recommendations: Can be burned in accordance to local regulations. Dispose decontaminated packaging at local recycling facilities.

14. Transport information

Transport / additional information

Not a hazardous material according to transportation regulations.

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15. Regulations

Labelling in accordance to 1999/45/EC:

labelling not required

Additional regulations for compounds according to 1999/45/EC Annex V ch. B

„Contains benzoyl peroxide. May cause allergic reactions.“

Hazard-determining components of labelling:

not applicable

Hazard symbols

none

Risk phrases (R-phrases)

not necessary

Safety phrases (S-phrases)

not necessary

National Regulations (for Germany only)

Water hazards class 1 (self assessment)

16. Other information

Supplemental material

Not applicable because material is only one component of a two-component acrylic system with exactly coordinated catalyst system.

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.