

Material Safety Data Sheet

According to 91/155 EEC

Printing date 29.03.2006

Reviewed on 08.12.2005

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

- **Product details**
- **Trade name:** Bio-Dentaplast
- **Article number:**
540 BA21 6, 540 BA31 6, 540 BB21 6, 540 BB32 0, 540 BA22 0, 540 BA32 0, 540 BB22 0, 430 00LA 2, 430 00LA 3, 430 00LB 2, 430 00LB 3, 430 00RA 2, 430 00RA 3, 430 00RB 2, 430 00RB 3
- **Application of the substance / the preparation**
Material for producing clasps, attachment, telescopic work as well as crowns and bridges.
- **Manufacturer/Supplier:**
Bredent
Weißenhorner Straße 2
D-89250 Senden
Tel.: +49 (0) 7309/872-0
Fax: +49 (0) 7309/872-24
- **Further information obtainable from:** R & D
- **Information in case of emergency:** Tel.: +49 (0) 6132-84436 (24 h)

2 Composition/information on ingredients

- **Chemical characterization:**
- **CAS No. Description**
24969-26-4 Polyacetal-Copolymer ·
- **Identification number(s) ·**
- **Chemical characterization ·**

Dangerous components:

CAS: 50-00-0	formaldehyde	T; R 23/24/25-34-40-43	< 0.5%
EINECS: 200-001-8			

3 Hazards identification

- **Hazard description:** Not applicable.
- **Information concerning particular hazards for human and environment:** Not applicable.

4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
After contact with the molten product, cool rapidly with cold water.
Do not pull solidified product off the skin.
Seek medical treatment.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
Water
Foam
Fire-extinguishing powder
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Carbon monoxide (CO)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

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- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
 - Pick up mechanically.
 - Dispose of the material collected according to regulations.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Extractors are required on all machines used for thermal processing or splinter removal processes.
- **Information about fire - and explosion protection:** Protect against electrostatic charges.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace: 50-00-0**

formaldehyde

MEL Short-term value: 2.5 mg/m³, 2 ppmLong-term value: 2.5 mg/m³, 2 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - The usual precautionary measures are to be adhered to when handling chemicals.
 - Do not eat, drink, smoke or sniff while working.
 - Do not inhale dust / smoke / mist.
- **Respiratory protection:** Not required. · **Protection of hands:** Not required.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

· General Information

Form:	Granulate
Colour:	Different according to colouring
Odour:	Weak, characteristic

· Change in condition

Melting point/Melting range: 163-168°C

Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.

- **Ignition temperature:** 320°C

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· **Danger of explosion:** · **Density at 20°C:** · **Bulk density at 20°C:**

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Product does not present an explosion hazard.

1.41 g/cm³ 770-890 kg/m³

· **Solubility in / Miscibility with water:** Insoluble.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications. To avoid thermal decomposition do not overheat.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** Formaldehyde

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:** ·
on the skin:
- on the eye:
- **Sensitization:**
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.

13 Disposal considerations

- **Product:**
- **Recommendation**
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

· **European waste catalogue**

12 01 05 plastics shavings and turnings

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:** · **Marine pollutant:** No

15 Regulatory information

- **Labelling according to EU guidelines:**
The substance is not subject to classification according to EU lists and other sources of literature known to us.

Observe the general safety regulations when handling chemicals.

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- **Special labelling of certain preparations:**
Safety data sheet available for professional user on request.

16 Other information

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.

- **Relevant R-phrases**

23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

34 Causes burns.

40 Limited evidence of a carcinogenic effect.

43 May cause sensitisation by skin contact.

- **Department issuing MSDS: R & D**

- **Contact: R & D**

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