



According to 91/155/EC  
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**PMMA BioStar**

**1. Identification of the substance / Preparation and Company:**

- |     |   |   |
|-----|---|---|
| 1.1 | Product identifier  |   |
|     | Tradename:  | PMMA BioStar  |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against |   |
|     | Use of the Substance/Mixture:   | PMMA blanks for dental casting technique                |
| 1.3 | Details of the supplier of the safety data sheet                              |   |
|     | Manufacturer/Supplier:  | ERNST HINRICHS Dental GmbH                              |
|     | Street / mailbox:   | Borsigstr. 1  |
|     | Country code. / postal code / city:   | D - 38644 Goslar  |
|     | Phone:  | 0 53 21 / 5 06 24                                       |
|     | Fax:  | 0 53 21 / 5 08 81                                       |
|     | E-mail / Website:   | info@hinrichs-dental.de / www.hinrichs-dental.de        |
|     | Further information obtainable from:  | ERNST HINRICHS Dental GmbH                              |
| 1.4 | Emergency telephone number  |   |
|     | ERNST HINRICHS Dental GmbH:   | +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.) |

**2. Composition / Information on Ingredients:**

- |     |                         |
|-----|-------------------------|
| 2.1 | Polymethylmethacrylate. |
|-----|-------------------------|

**3. Hazards Identification:**

- |     |   |                 |
|-----|---|-----------------|
| 3.1 | Hazard designation for human and environment:       | Not applicable. |
| 3.2 | Hazardous / non hazardous preparation:              | Not applicable. |
| 3.3 | Harmful effects to health and environment on abuse: | Not applicable. |
| 3.4 | Other hazards based on the material:                | None.           |

**4. First aid measures:**

- |     |                            |  |
|-----|----------------------------|--|
| 4.1 | General information:       | No special measures are required.  |
| 4.2 | After inhalation:          | Consult a physician.   |
| 4.3 | After skin contact:        | Not Available.   |
| 4.4 | After eye contact:         | If swarf gets into your eyes, rinse open eye for several minutes under running water. If symptoms persist consult a physician. |
| 4.5 | After swallowing:          | In case of discomfort consult a physician.   |
| 4.6 | Information for physician: | Not applicable.  |

**5. Fire Fighting measures:**

- |     |                                   |   |
|-----|-----------------------------------|---|
| 5.1 | Suitable extinguishing agents:    | Water spray, foam, powder, carbonic acid gas. |
| 5.2 | Not suitable extinguishing media: | Full water jet.                               |
| 5.3 | Hazardous combustion products:    | Not applicable.                               |
| 5.4 | Special protection equipment:     | Use independent respirators (insulating).     |

**6. Accidental release measures:**

- |     |                              |  |
|-----|------------------------------|--|
| 6.1 | Personal safety precautions: | Not applicable.  |
| 6.2 | Environmental precautions:   | Not applicable.  |
| 6.3 | Methods for cleaning up:     | Absorb mechanically. Dispose according to regulations. |
| 6.4 | Additional information:      | None.  |

**7. Handling and Storage:**

- |     |              |   |
|-----|--------------|---|
| 7.1 | Handling:    | During thermal processing and/or shape cutting measures of extraction are required at working machines. |
| 7.2 | Storage:     | Store in dry conditions and protect from heat.  |
| 7.3 | Application: | Not applicable.   |



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**8. Exposure controls / Personal protection:**

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|-----|--|--|
| 8.1 | Exposure limits:                                     | Not applicable.  |
|     | Limitation and monitoring to exposure:               | Not applicable.  |
|     | Limitation and monitoring to exposure at workplace:  | Use suitable dust extractor device at workstation. Do not eat, drink or smoke while you are working. Keep away from food and drinks. |
| 8.2 | Respiratory protection:                              | Use respirator if there is no sufficient extractor device.   |
|     | Hand protection:                                     | Wear protective gloves.  |
|     | Eye protection:                                      | Wear protective glasses.   |
|     | Skin protection:                                     | Use protective clothes.  |
|     | Limitation and monitoring to environmental exposure: | Not applicable.  |

**9. Physical and chemical properties:**

- |     |                         |                                 |
|-----|-------------------------|---------------------------------|
| 9.1 | Appearance:             | Transparent, blue, ivory        |
|     | Physical state:         | Solid                           |
|     | Odour:                  | Odourless.                      |
| 9.2 | PH-value:               | Not applicable.                 |
|     | Boiling point or range: | Not applicable.                 |
|     | Flash point:            | <250°C (ASTM D1929-68)          |
|     | Ignition temperature:   | <400°C (ASTM D1929-68)          |
|     | Explosive properties:   | Not applicable.                 |
|     | Oxidizing properties:   | Not applicable.                 |
|     | Vapour pressure:        | Not applicable.                 |
|     | Relative density:       | 1,19 gr/cm <sup>3</sup> at 20°C |
|     | Solubility water / fat: | Insoluble in water.             |
|     | Partition coefficient:  | Not applicable.                 |
|     | Viscosity:              | Not applicable.                 |
|     | Vapour density:         | Not applicable.                 |
|     | Evaporation rate:       | Not applicable.                 |
| 9.3 | Other data:             | Not applicable.                 |

**10. Stability and Reactivity:**

- |      |                                   |  |
|------|-----------------------------------|--|
| 10.1 | Conditions to avoid:              | Not applicable.  |
| 10.2 | Materials to avoid:               | Not applicable.  |
| 10.3 | Hazardous decomposition products: | None according to intended application. During thermal composition irritating and flammable fumes arise which irritate eyes and respiratory system. The fumes exist prevalent of methylmethacrylate. |

**11. Toxicological Information:**

- |      |   |
|------|---|
| 11.1 | This product was not toxicological tested. When used and handles according to specifications, the product does not have any harmful effects to our experience and the information provided to us. |
|------|---|

**12. Ecological Information:**

- |      |                                |  |
|------|--------------------------------|--|
| 12.1 | Ecotoxicity:                   | None.  |
| 12.2 | Mobility:                      | Not applicable.                                  |
| 12.3 | Persistence and degradability: | Low water solubility - unlikely bioavailability. |
| 12.4 | Potential for bioaccumulation: | Not applicable.                                  |
| 12.5 | Other adverse effects:         | None.  |

**13. Disposal Considerations:**

- |      |   |
|------|---|
| 13.1 | Product and packaging should be disposed to official rules and directives.<br>EWC-waste code: 07 02 13 - plastic waste. |
|------|---|



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**14. Transport Information:**

- |                                       |                 |
|---------------------------------------|-----------------|
| 14.1 UN-number:                       | Not applicable. |
| 14.2 Class:                           | None.           |
| 14.3 correct identification of goods: | Cad-PMMA        |
| 14.4 Packaging group:                 | Not applicable. |
| 14.5 Ocean harmful substances:        | Not applicable. |
| 14.6 Other relevant information:      | None.           |

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**15. Regulatory Information:**

Subject to classification: No subject to declaration according to EC rules.

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**16. Further Information:**

This safety data sheet 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.

We cannot guarantee or give a warranty for the accuracy, dependability and completeness of this information, explicitly or implicitly. We call upon any person getting this information to urgently check and verify the adequacy and completeness for her or his special application.