



0123

**- System PEEK Blank -**According to EG 1907/2006  
(REACH)

Versions-No.: 02

Valid from: 12/2016

Replaces version No. 01 from 09/2017

1. Identification of substance and company	
1.1 Trade name:	System PEEK Blank white / System PEEK Blank tooth-colour
1.2 Product details:	Milling disc, semi-crystalline high-performance polymer (PEEK)
Product form:	Milling disc or varying geometries
Purpose:	The production of crowns, bridges, implant supported restorations, abutments, removable prosthetics, denture base and splints for temporary and permanent use.
1.3 Manufacturer:	Adentatec GmbH
Street:	Konrad-Adenauer-Straße 13
ZIP/city/Country.:	50996 Köln/ GERMANY
Phone:	+49 221 - 35 96 100
Fax:	+49 221 - 35 96 170
Information department:	Klaus Renner Tel.: +49 221 - 35 96 100 info@adentatec.com
Emergency information: Email: Homepage:	Tel.: +49 221 - 35 96 100 info@adentatec.com www.adentatec.com
2. Hazards identification	
2.1 Hazard designation:	Not applicable - see section 2.2
Information pertaining to particular dangers for man and environment:  User:  Classification system:	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  Due to the calculation procedure of the "General rating principles for the preparation of the EG" in the ultimate version the product is not subject to marking.  Skilled personnel (Dental technicians, dentists)  The classification is in line with the current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
2.2 Hazard warning:	No
2.3 Other hazards in the supply and processing of the product:	Direct contact with grinding dust may cause irritation of the skin and eyes.
3. Composition/Data on components	
Polyetherether-ketone (PEEK), modified	
4. First aid measures	
4.1 General information:	<b>Inhalation</b> No specific treatment is necessary since this material is not likely to be hazardous by inhalation.  <b>Skin contact</b> No specific treatment is necessary since this material is not likely to be hazardous.  <b>Eye contact</b> If mechanical irritation occurs flush eyes thoroughly with a large amount of water, consult a physician if irritation persists. (Possible during machining processes).  <b>Ingestion</b> Ingestion is not considered a potential route of exposure.
4.2 Important acute and delayed symptoms and	No



0123

**- System PEEK Blank -**

According to EG 1907/2006

(REACH)

Versions-No.: 02

Valid from: 12/2016

Replaces version No. 01 from 09/2017

effects:	
4.3 Indication of any immediate medical attention and special treatment needed	Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.
<b>5. Fire fighting measures</b>	
5.1 Suitable extinguishing aids:	Suitable extinguishing media: Water spray, foam, CO <sub>2</sub> .  Unsuitable extinguishing media: High volume water jet
5.2 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:	In case of fire partly flammable, partly harmful vapours, which are irritating to the eyes and respiratory system, may be formed on thermal decomposition.
5.3 Protective equipment:	Wear self-contained breathing apparatus.
<b>6. Accidental release measures</b>	
6.1 Person-related safety precautions:	Wear protective gloves and eye protectors.
6.2 Measures for environmental protection:	Should not be released into the environment. Collect and dispose of unused residues.
6.3 Measures for cleaning/collecting:	Take up mechanically. Dispose of in accordance with regulations.
6.4 Reference to other sections:	For personal protection see section 8.
<b>7. Handling and storage</b>	
7.1 Information for safe handling:	Avoid dust formation. During thermal processing and/or machining local exhaust ventilation at processing machines is necessary.
7.2 Conditions for safe storage, including intolerances:	Keep container tightly closed in a dry and well-ventilated place. Store in a cool and shaded area. Keep away from direct sunlight. Protect from frost.
Common storage notes:	Store in a cool, dry, enclosed and covered building, with Product inside original packaging. Storage area should be a climate controlled room without any direct sunlight or UV exposure. Packaging shall remain unadulterated and protected against freezing.
Storage and container:	Only store in original package.
Further information about storage conditions:	None
Storage class: Classification according to Ordinal on Industrial Safety and Health:	n.a.  Deleted
7.3 Specific end uses:	Guarantee batch traceability.
<b>8. Exposure controls and personal protection</b>	



0123

**- System PEEK Blank -**

According to EG 1907/2006

(REACH)

Versions-No.: 02

Valid from: 12/2016

Replaces version No. 01 from 09/2017

8.1 To be monitored parameter:	<p>Particulate matter threshold according to Technical Rules for Hazardous Substances</p> <p><b>MAK</b> (DFG MAK): 0,3 mg/m<sup>3</sup> alveolar fraction</p> <p><b>MAK</b> (DFG MAK): 4 mg/m<sup>3</sup> inhalable fraction</p>																										
8.2 Limiting and monitoring exposure:	For monitoring procedures refer for instance to "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz																										
Personal protective equipment:	<p><b>Hygiene measures:</b> Follow the usual good standards of occupational hygiene.</p> <p><b>Respiratory protection:</b> not required on normal handling, dust mask may be required for machining operations.</p> <p><b>Protective gloves:</b> protective gloves against mechanical risks according to EN 388.</p> <p><b>Eye protection:</b> goggles for machining operations.</p> <p><b>Body protection:</b> Light protective clothing.</p>																										
<b>9. Physical and chemical properties</b>																											
9.1 Information on basic physical and chemical properties:	<table border="0"> <tr> <td>Form</td> <td>Discs or varying geometries</td> </tr> <tr> <td>Colour</td> <td>various, depending on coloration</td> </tr> <tr> <td>Odour</td> <td>odourless</td> </tr> <tr> <td>Softening Temperature</td> <td>not available</td> </tr> <tr> <td>Boiling point/range</td> <td>not applicable</td> </tr> <tr> <td>Lower explosion limit</td> <td>not applicable</td> </tr> <tr> <td>Upper explosion limit</td> <td>not applicable</td> </tr> <tr> <td>Vapour pressure</td> <td>not applicable</td> </tr> <tr> <td>Relative vapour density (related to air)</td> <td>not applicable</td> </tr> <tr> <td>Solubility in water</td> <td>insoluble</td> </tr> <tr> <td>pH</td> <td>not applicable</td> </tr> <tr> <td>n-Octanol/water partition coefficient</td> <td>not applicable</td> </tr> <tr> <td>Viscosity (dynamic)</td> <td>not applicable</td> </tr> </table>	Form	Discs or varying geometries	Colour	various, depending on coloration	Odour	odourless	Softening Temperature	not available	Boiling point/range	not applicable	Lower explosion limit	not applicable	Upper explosion limit	not applicable	Vapour pressure	not applicable	Relative vapour density (related to air)	not applicable	Solubility in water	insoluble	pH	not applicable	n-Octanol/water partition coefficient	not applicable	Viscosity (dynamic)	not applicable
Form	Discs or varying geometries																										
Colour	various, depending on coloration																										
Odour	odourless																										
Softening Temperature	not available																										
Boiling point/range	not applicable																										
Lower explosion limit	not applicable																										
Upper explosion limit	not applicable																										
Vapour pressure	not applicable																										
Relative vapour density (related to air)	not applicable																										
Solubility in water	insoluble																										
pH	not applicable																										
n-Octanol/water partition coefficient	not applicable																										
Viscosity (dynamic)	not applicable																										
9.2 Other information:	none																										
<b>10. Stability and reactivity</b>																											
10.1 Reactivity: 10.2 Chemical stability: 10.3 Possibility of hazardous reactions: 10.4 Conditions to avoid:	<p>See section 10.2</p> <p>This material is considered stable under specified conditions of storage, shipment and/or use.</p> <p>No dangerous reactions known.</p> <p>High temperature.</p>																										



0123

**- System PEEK Blank -**

According to EG 1907/2006

(REACH)

Versions-No.: 02

Valid from: 12/2016

Replaces version No. 01 from 09/2017

10.5 Incompatible materials:	None reasonably foreseeable.
10.6 Hazardous decomposition products:	Hazardous decomposition products: organic products of decomposition, Carbon oxides.
<b>11. Toxicological information</b>	
11.1 Information on toxicological effects:	With proper handling and storage no harmful reactions are known according to the information.
<b>12. Ecological information</b>	
12.1 Acute toxicity:	Not known
12.2 Persistence and degradability:	not applicable
12.3 Bioaccumulative potential:	not known
12.4 Mobility in soil:	not applicable
12.5 Results of PBT and vPvB assessment:	not known
12.6 Other adverse effects:	CMR: No
<b>13. Disposal considerations</b>	
13.1 Waste treatment Methods:	<p><b>Product:</b> Waste is non-hazardous. It should be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.</p> <p><b>Uncleaned packaging:</b> Uncontaminated packaging may be taken for recycling.</p> <p><b>Code of waste:</b> 07 02 13 Waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres - waste plastic. Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.</p>
<b>14. Transport information</b>	
14.1 UN number:	see section 14.2
14.2 UN proper shipping Name:	<p><b>Transport on land ADR/GGVSEB</b> Not dangerous according to transport regulations.</p> <p><b>Transport on land RID/GGVSEB</b> Not dangerous according to transport regulations.</p> <p><b>Inland waterway transport ADN/GGVSEB (Germany)</b> Not dangerous according to transport regulations.</p> <p><b>Shipment by sea IMDG/GGVSee</b> Not dangerous according to transport regulations.</p> <p><b>Air transport ICAO/IATA</b> Not dangerous according to transport regulations. not applicable</p>
14.3 Transport Hazard classes:	see section 14.2
14.4 Packing Group:	see section 14.2
14.5 Environmental hazards:	if not mentioned in Point 14.2 then it does not apply
14.6 Special precautions:	See section 14.2



0123

**- System PEEK Blank -**

According to EG 1907/2006

(REACH)

Versions-No.: 02

Valid from: 12/2016

Replaces version No. 01 from 09/2017

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and under IBC Code:	for transport approval see regulatory information
<b>15. Regulatory information</b>	
15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:  15.2 chemical safety assessment:	<p><b>National legislation</b>  <b>Chemical safety assessment:</b> No chemical safety assessment was carried out for this product.</p> <p><b>Status of Registration</b>  <b>REACH (EU)</b>  preregistered, registered or exempted  <b>TSCA (USA)</b>  listed or exempted  <b>DSL (CDN)</b>  listed or exempted  <b>AICS (AUS)</b>  listed or exempted  <b>METI (J)</b>  listed or exempted  <b>ECL (KOR)</b>  listed or exempted  <b>PICCS (RP)</b>  listed or exempted  <b>IECSC (CN)</b>  listed or exempted  <b>HSNO (NZ)</b>  listed or exempted</p> <p>Not applicable</p>
<b>16. Other information</b>	
<p>These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.</p> <p>Adentatec GmbH makes no express or implied warranty or guarantee as to the accuracy, reliability or completeness of the information. Persons receiving this information are encouraged by AD GmbH deliver the product to any other than the intended purpose of section 1.2. The user is responsible for compliance with all relevant legal requirements.</p> <p>The product must be used by trained dental technicians who have knowledge of the proper use manner and can therefore be considered a misuse of responsibility.</p>	
<p>Legend</p> <p><b>ADR</b> European Agreement concerning the International Carriage of Dangerous Goods by Road  <b>ADN</b> European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  <b>c. c.</b> closed cup  <b>CAS</b> Chemical Abstract Services  <b>CMR</b> carcinogenic-mutagenic-toxic for reproduction  <b>DIN</b> German Institute for Standardization  <b>EINECS</b> European Inventory of Existing Commercial Chemical Substances  <b>EC50</b> half maximal effective concentration  <b>GefStoffv</b> German Ordinance on Hazardous Substances  <b>IATA</b> International Air Transport Association  <b>ICAO</b> International Civil Aviation Organization  <b>IMDG</b> International Maritime Dangerous Goods  <b>ISO</b> International Organization For Standardization  <b>PBT</b> Persistent, bioaccumulative, toxic  <b>REACH</b> REACH registration  <b>TRGS</b> Technical Rules for Hazardous Substances  <b>vPvB</b> very persistent, very bioaccumulative  <b>VOC</b> volatile organic compounds  <b>VwVwS</b> German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes  <b>WGK</b> Water Hazard Class</p>	



0123

**Sicherheitsdatenblatt** **adentatec**

competence in dental

**- System PEEK Blank -**

According to EG 1907/2006  
(REACH)

Versions-No.: 02

Valid from: 12/2016

Replaces version No. 01 from 09/2017