



0123

Sicherheitsdatenblatt - System PEEK Blank -

adentatec
competence in dental

According to EG 1907/2006
(REACH)

Versions-No.: 03

Valid from: 01-2021
Replaces version No. 02 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:	Alexander Schnack 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:	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.
User:	Skilled personnel (Dental technicians, dentists)
Classification system:	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:	<p>Inhalation No specific treatment is necessary since this material is not likely to be hazardous by inhalation.</p> <p>Skin contact No specific treatment is necessary since this material is not likely to be hazardous.</p> <p>Eye contact If mechanical irritation occurs flush eyes thoroughly with a large amount of water, consult a physician if irritation persists. (Possible during machining processes).</p> <p>Ingestion Ingestion is not considered a potential route of exposure.</p>
4.2 Important acute and delayed symptoms and	No



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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.
5. Fire fighting measures	
5.1 Suitable extinguishing aids:	Suitable extinguishing media: Water spray, foam, CO ₂ . 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.
6. Accidental release measures	
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.
7. Handling and storage	
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: Common storage notes:	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. 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.
8. Exposure controls and personal protection	



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<p>8.1 To be monitored parameter:</p> <p>8.2 Limiting and monitoring exposure:</p>	<p>Particulate matter threshold according to Technical Rules for Hazardous Substances</p> <p>MAK (DFG MAK): 0,3 mg/m³ alveolar fraction</p> <p>MAK (DFG MAK): 4 mg/m³ inhalable fraction</p> <p>For monitoring procedures refer for instance to "Empfohlene Analysenverfahren für Arbeitsplatzmessungen", Schriftenreihe der Bundesanstalt für Arbeitsschutz</p>																										
<p>Personal protective equipment:</p>	<p>Hygiene measures: Follow the usual good standards of occupational hygiene.</p> <p>Respiratory protection: not required on normal handling, dust mask may be required for machining operations.</p> <p>Protective gloves: protective gloves against mechanical risks according to EN 388.</p> <p>Eye protection: goggles for machining operations.</p> <p>Body protection: Light protective clothing.</p>																										
<p>9. Physical and chemical properties</p>																											
<p>9.1 Information on basic physical and chemical properties:</p>	<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
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<p>9.2 Other information:</p>	<p>none</p>																										
<p>10. Stability and reactivity</p>																											
<p>10.1 Reactivity: 10.2 Chemical stability: 10.3 Possibility of</p>	<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>																										



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hazardous reactions: 10.4 Conditions to avoid: 10.5 Incompatible materials: 10.6 Hazardous decomposition products:	None reasonably foreseeable. Hazardous decomposition products: organic products of decomposition, Carbon oxides.
11. Toxicological information	
11.1 Information on toxicological effects:	With proper handling and storage no harmful reactions are known according to the information.
12. Ecological information	
12.1 Acute toxicity: 12.2 Persistence and degradability: 12.3 Bioaccumulative potential: 12.4 Mobility in soil: 12.5 Results of PBT and vPvB assessment: 12.6 Other adverse effects:	Not known not applicable not known not applicable not known CMR: No
13. Disposal considerations	
13.1 Waste treatment Methods:	Product: 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. Uncleaned packaging: Uncontaminated packaging may be taken for recycling. Code of waste: 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.
14. Transport information	
14.1 UN number: 14.2 UN proper shipping Name:	see section 14.2 Transport on land ADR/GGVSEB Not dangerous according to transport regulations. Transport on land RID/GGVSEB Not dangerous according to transport regulations. Inland waterway transport ADN/GGVSEB (Germany) Not dangerous according to transport regulations. Shipment by sea IMDG/GGVSee Not dangerous according to transport regulations. Air transport ICAO/IATA Not dangerous according to transport regulations. not applicable
14.3 Transport Hazard classes:	see section 14.2
14.4 Packing Group: 14.5 Environmental hazards:	see section 14.2 if not mentioned in Point 14.2 then it does not apply



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14.6 Special precautions:	See section 14.2
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and under IBC Code:	for transport approval see regulatory information
15. Regulatory information	
15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:	<p>National legislation Chemical safety assessment: No chemical safety assessment was carried out for this product.</p> <p>Status of Registration REACH (EU) preregistered, registered or exempted TSCA (USA) listed or exempted DSL (CDN) listed or exempted AICS (AUS) listed or exempted METI (J) listed or exempted ECL (KOR) listed or exempted PICCS (RP) listed or exempted IECSC (CN) listed or exempted HSNO (NZ) listed or exempted</p>
15.2 chemical safety assessment:	Not applicable
16. Other information	
<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>	
Legend	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
c.c.	closed cup
CAS	Chemical Abstract Services
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffv	German Ordinance on Hazardous Substances
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
PBT	Persistent, bioaccumulative, toxic
REACH	REACH registration
TRGS	Technical Rules for Hazardous Substances
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds



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VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class