

Revision: 4 Date: 06-Feb-2023

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

1.1 **Product identifier**

> Trade name **CERAMILL PEEK by JUVORA™ Dental Discs Natural**

Other means of identification 1.2

> CAS No. Polyaryletherketone: 29658-26-2 or 31694-16-3

EC No. Polyaryletherketone: Not Applicable.

REACH Registration No. Polyaryletherketone: Not Applicable.

1.3 Recommended use of the substance and

restrictions on use

Identified use(s) The materials are generally used for injection moulding,

extrusion or machining operations for use in long term human

implantation.

1.4 **Supplier details**

> Juvora Limited. Company Identification

> > Technology Centre, Hillhouse International,

Thornton-Cleveleys Lancashire, UK **FY5 40D**

Telephone + 44 (0) 1253 898000 E-Mail (competent person) RAPS@invibio.com

Only Representative details

Company Identification Stewardship Chemicals 40,

> Dlugosza 67, 43-188 Orzesze,

Poland

Telephone: +48 501168430

pawelskiba@stewardshipsolutions.eu E-Mail (competent person)

1.5 **Emergency telephone number**

> Emergency Phone No. + 44 (0) 1253 898000



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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP). Not classified as dangerous for supply/use.

2.2 Label elements (GHS) None.

> **Product Name** CERAMILL PEEK by JUVORA™

Hazard pictogram(s) None. Signal word(s) None. Hazard statement(s) None. Precautionary statement(s) None.

2.2 Other hazards None

2.4 **Additional Information** See section 3 below.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Polyetheretherketone polymer (CAS No. 29658-26-2 or 31694-16-3)

This product does not contain any reportable hazardous materials

Classification according to Regulation EC No. 1272/2008 [CLP]:

Hazardous ingredient(s)	%W/W	EC No.	CAS No.	REACH Registration No.	Hazard statement(s)
None.	-	-	-	-	-

3.2 Additional Information

For full text of H/P phrases see section 16.

The JUVORA Dental Disc is made from 100% PEEK-OPTIMA



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SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation Remove patient from exposure. Keep patient at rest and give

oxygen if breathing difficult. If exposed or concerened: get medial

advice / attention..

Skin Contact After contact with skin, wash immediately with plenty of soap and

water. In the event of contact with molten product: Cool affected area quickly with water. Do not attempt to remove hardened

product. Obtain medical attention.

Eye Contact Flush eyes with water for at least 2 minutes while holding eyelids

open.

Ingestion Call a physician (or poison control centre immediately).Do not

induce vomiting wash out mouth with water.

4.2 Most important symptoms and effects, both

acute and delayed

4.3 Indication of any immediate medical attention

and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media In case of fire, use water spray, foam, dry powder or CO₂ for

extinction.

Unsuitable Extinguishing Media None.

5.2 Special hazards arising from the substance or

mixture

In case of fire the following can develop: Oxides of carbon.

5.3 Advice for fire-fighters A self-contained breathing apparatus and suitable protective

clothing should be worn in fire conditions.

Dust is ignitable but will not sustain combustion. A high temperature source of ignition is required. Insensitive to sparks. The minimum spark energy required for ignition of a dust cloud is greater than 5000 mJ. It will not train fire, e.g. along beams

etc.

5.4 Other Dispose of contaminated extinction water according to official

regulations.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 emergency procedures

Personal precautions, protective equipment and Avoid inhalation and contact with eyes or skin. Ensure sufficient supply of air. Avoid build up of dust. Remove possible cause of ignition - do not smoke. Take precautionary measures against static discharge.

6.2 **Environmental precautions** Avoid release to the environment. Prevent surface and ground water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Sweep up carefully with non-sparking tools. Transfer to a lidded

6.4 Reference to other sections 6.5 **Additional Information**

container for disposal or recovery.

None. None.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

General hygiene measures for the handling of chemicals are applicable. Eating, drinking, smoking, as well as food storage, is prohibited in work room. Avoid build up of dust. Local Exhaust Ventilation at the workplace or on the processing machines required. Note: Danger of explosive dust.

Machine Cleaning (purging): Purging with other polymers (e.g. Polyethylene) at high temperatures can be hazardous. Auto ignition may also occur. Local exhaust ventilation is required. The relevant Safety Data Sheet for the purge material to be used should be consulted. Additional information can be obtained from the Invibio Processing Guide.

7.2 Conditions for safe storage, including any incompatibilities

Store products enclosed, in original packing.

Storage Temperature Storage Life

Store at room temperature.

Incompatible materials

> 10 Year(s). None known

7.3 Specific end use(s) The materials are generally used for injection moulding and extrusion or machining operations for use in long term human implantation.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **Control parameters**

8.1.1 **Occupational exposure limits**

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
Dust. (general dust limit	-	-	10			Inhalable Dust
value)			4			Respirable Dust.

8.1.2 **Biological limit value** None

8.1.3 **PNECs and DNELs** Not available.

8.2 **Exposure controls**

8.2.1 **Appropriate engineering controls** Local Exhaust Ventilation at the workplace or on the

processing machines required.

8.2.2 **Personal protection equipment**

> Eye protection with side protection (EN 166) Eye/face protection

Skin protection (Hand protection/ Other) Impervious Gloves. Plastic or synthetic rubber gloves.

Additional information on hand protection – No tests have been performed. When dealing with heated material: Insulating gloves EN 407

If above exposure limits are likely to be exceeded, breathing Respiratory protection

mask with fine dust filter (EN 143)

8.2.3 **Environmental Exposure Controls** No special requirements.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Solid Colour. Grey/ Brown Odour Odourless

Odour threshold (ppm) None

pH (Value) Not applicable Melting point (°C) 343°C

Boiling point/boiling range (°C): Not known. Flash point (°C) Not known. **Evaporation rate** Not known.

Flammability (solid, gas) Solid, Non-flammable

Explosive limit ranges Not explosive. Vapour pressure (Pascal) 39.6 (@107°C) Vapour density (Air=1) Not known Bulk Density (g/ml) ~1.4 Solubility (Water) Insoluble Solubility (Other) Insoluble Partition coefficient (n-Octanol/water) Not known Auto ignition point (°C) 595°C Decomposition temperature (°C) > 450°C Viscosity (mPa. s) Not known **Explosive properties** Not explosive

Oxidising properties Not oxidising

SECTION 10: STABILITY AND REACTIVITY

Other information

9.2

10.1 Reactivity Stable under normal conditions. 10.2 **Chemical stability** Stable under normal conditions. 10.3 Possibility of hazardous reactions Stable under normal conditions.

10.4 **Conditions to avoid** Stable under normal conditions. Electrostatic charge.

Open flame, ignition sources. Decomposes at temperatures

above 450°C.

10.5 Incompatible materials Concentrated Sulphuric acid

10.6 **Hazardous Decomposition Product(s)** When Glowing and during combustions, CO/CO2 (oxides of

carbon) is generated.

None



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects This product is essentially inert and non-toxic. Where

appropriate the material has been tested in accordance with

the following tests: ISO 10993-1 and USP VI

Please contact Juvora Ltd for details.

11.1.1 Substances

Acute toxicity

Ingestion Predicted to be low toxicity under normal conditions of

handling and use.

Inhalation Mechanical irritation of the respiratory tract.

Skin Contact Repeated and/or prolonged skin contact may cause irritation.

In the event of contact with molten product: Thermal Burns (molten polymer will adhere to skin and cause severe burns).

Eye Contact No data. Dust may have irritant effect on eyes.

Permanent damage is unlikely.

Hazard label(s) Not known Serious eye damage/irritation Not known respiratory or skin sensitization Not known Mutagenicity Not known Carcinogenicity Not known Reproductive toxicity Not known Not known STOT - single exposure STOT - repeated exposure Not known **Aspiration hazard** Not known

11.1.2 Mixtures Not applicable

11.2 Other information None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Low toxicity to aquatic organisms. Insoluble in water

12.2 Persistence and degradability Not readily biodegradable.

12.3 Bioaccumulative potential Not classified as PBT or vPvB.

12.4 Mobility in soil The product has low mobility in soil. The product has low

mobility in sediment.

12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB.

12.6 Other adverse effects None anticipated



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal should be in accordance with local, regional, state or national legislation.

13.2 Additional Information

The European waste codes are recommendations based on the scheduled use of this product. For alternative uses and applications, other waste codes may be allocated under certain circumstances.

07 02 13- waste plastic, 07 02 99-waste not otherwise specified.

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID) Not classified as dangerous for transport.

UN number Not applicable
Proper Shipping Name Not applicable

14.2 Sea transport (IMDG)Not classified as dangerous for transport.

UN number Not applicable
Proper Shipping Name Not applicable

14.3 Air transport (ICAO/IATA) Not classified as dangerous for transport.

UN number Not applicable
Proper Shipping Name Not applicable

14.4 Transport in bulk according to Annex II of Not applicable MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental Not classified as dangerous for supply/use. regulations/legislation specific for the

15.1.1 EU regulations

substance or mixture

Authorisations and/or restrictions on use None EU Medical Device Directive – 93/42/EEC Complies

15.1.2 National regulations

USA

TSCA – PEEK Polymer Listed - ACTIVE

OSHA Not classified as a hazardous material under the criteria

outlines in the OSHA Hazard Communication Standard (HCS)

(29 CFR 1910.1200).



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15.2 **Chemical Safety Assessment** Not relevant for this material.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: No major updates, general review and template update.

LEGEND

LTEL Long Term Exposure Limit STEL Short Term Exposure Limit STOT Specific Target Organ Toxicity Derived No Effect Level DNEL

PNEL Predicted No Effect Concentration

References: Workplace Exposure Limit (UK HSE EH40)

Risk Phrases and Safety Phrases: None

Hazard statement(s) and Precautionary statement(s): None

Training advice: www.juvoradental.com

Additional Information

Manufactured in the UK by Juvora Limited, under a Quality System approved to ISO 13485.

Additional information on the properties, processing and application of JUVORA™ Dental Discs is available at www.juvoradental.com.

These details refer to the product as it is delivered.

The statements made here should describe the product with regard to the necessary safety precautions – they are not meant to guarantee definite characteristics – but they are based on our present up-to-date knowledge.

SDS Date of Preparation: 06 February 2023 – updated from SDS Revision 26 September 2022

Juvora Limited

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