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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

Product identifier 1.1

> JUVORA™ Dental Disc - Natural Trade name

1.2 Other means of identification

> PEEK Polymer (31694-16-3 or 29658-26-2) CAS No.

EC No. Not applicable. REACH Registration No. Not applicable.

1.3 Recommended use of the substance and

restrictions on use

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

extrusion operations or machining for use in long term human

implantation.

1.4 **Supplier details**

> Company Identification Juvora Limited.

> > Hillhouse International, Thornton-Cleveleys Lancashire, UK

FY5 4QD

Telephone + 44 (0) 1253 898000

E-Mail (competent person) RAPS@invibio.com

Only Representative details

Stewardship Chemicals 40, Company Identification

> Dlugosza 67, 43-188 Orzesze,

Poland

+48 501168430 Telephone:

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

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. 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** None

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	Hazard statement(s)
				Registration No.	
None.	-	-	-	-	-

3.2 Additional Information

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

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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

Unlikely to be required but if necessary treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed Unlikely to be required but if necessary treat symptomatically.

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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

cleaning up

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and Avoid inhalation and contact with eyes or skin. Ensure sufficient emergency procedures 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 Sweep up carefully with non-sparking tools. Transfer to a lidded

container for disposal or recovery.

6.4 Reference to other sections Refer to Section 13 for disposal considerations and Section 8

for Personal Protection.

6.5 Additional Information None.



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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

Storage Temperature
Storage Life

Incompatible materials

Store products enclosed, in original packing.

Store at room temperature. > 10 Year(s).

None known

7.3 Specific end use(s)

The materials are generally used for injection moulding and extrusion operations or machining for use in long term human implantation.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Ensure adequate ventilation.

8.1.1 Occupational exposure limits None.

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

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

(heat)

mask with fine dust filter (EN 143)

(in)

8.2.3 Environmental Exposure ControlsNo 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 rateNot 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) ~1.3 Solubility (Water) Insoluble Solubility (Other) Insoluble Partition coefficient (n-Octanol/water) Not known Auto ignition point (°C) 595°C > 450°C Decomposition temperature (°C) Viscosity (mPa. s) Not known **Explosive properties** Not explosive

Oxidising properties Not oxidising

9.2 Other information None

SECTION 10: STABILITY AND REACTIVITY

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 combustion, CO/CO₂ (oxides of

carbon) is generated.



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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:

US Pharmacopoeia Class VI ISO 10993-1 Guidance ISO 10993-5 Cytotoxicity ISO 10993-10 Sensitisation

Please contact Juvora Limited 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 STOT - single exposure Not known 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.

Container must be decontaminated in accordance with all

applicable regulations.

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

MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

substance or mixture

15.1.1 EU regulations

Authorisations and/or restrictions on use None

15.1.2 National regulations

USA

TSCA – PEEK Polymer Listed - ACTIVE

OSHA Not classified as a hazardous material under the criteria

outlined in the OSHA Hazard Communication Standard (HCS)

(29 CFR 1910.1200).

15.2 Chemical Safety Assessment Not relevant for this material.



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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

DNEL Derived No Effect Level

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

retracted at any time without notice to the customer/user.

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 INVIBIO polymers is available at www.invibio.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: 1 September 2022 - updated from SDS Revision 9 May 2019

Juvora Limited

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