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Date: 2-November-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 VICTREX™ PEEK 90HMF20 and 90HMF40

1.2 Other means of identification

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

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.

1.4 Details of the supplier of the safety data sheet

1.4.1 Manufacturer Details

Telephone

Fax:

Company Identification Victrex Manufacturing Ltd.

Hillhouse International, Thornton-Cleveleys

Lancashire, UK - FY5 4QD + 44 (0) 1253 897700 + 44 (0) 1253 897701 <u>RAPS@victrex.com</u>

1.4.2 Only Representative details

E-Mail (competent person)

Company Identification Stewardship Chemicals 40,

Dlugosza 67, 43-188 Orzesze,

Poland

Telephone: +48 501168430

E-Mail (competent person) <u>pawelskiba@stewardshipsolutions.eu</u>

1.4.3 Regional Importer Address See section 16 for regional importer / supplier information

1.5 Emergency telephone number

Emergency Phone No. + 44 (0) 1253 897754 - UK

+(49) 6192 964 900 - Europe +(1) 484 342 6001 - USA

Hours of operation 09:00 - 17:00 (Monday - Friday)



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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.

2.3 Other hazards Not classified as PBT or vPvB.

PEEK polymer does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

Not explosive, see section 9.2 below.

2.4 Additional Information None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

This product does not contain any reportable hazardous materials.

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

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.

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

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affected area quickly with water. Do not attempt to remove

hardened product. Obtain medical attention.

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

Eve Contact

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.

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.

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

cleaning up

6.5

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

container for disposal or recovery.

6.4 Reference to other sections

Additional Information

None. 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 Victrex website www.victrex.com

7.2 Conditions for safe storage, including any incompatibilities

Store products enclosed, in original packing.

Storage Temperature

Store at room temperature.

Storage Life Incompatible materials

> 10 Year(s). None known

Specific end use(s)

7.3

The materials are generally used for injection moulding and extrusion operations.

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	LTEL (8 hr	STEL	STEL	Note:
		TWA ppm)	TWA mg/m³)	(ppm)	(mg/m³)	
Dust. (general dust limit	-	-	10			Inhalable Dust
value)			4			Respirable Dust.
Fibre dust inorganic	-	-	2 fibres/ml			
			5mg/m³			

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



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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)

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

mask with fine dust filter (EN 143)



8.2.3 Environmental Exposure Controls

No special requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Solid (Granulate)

Colour.BlackOdourOdourlessOdour threshold (ppm)None

pH (Value)

Melting point (°C)

Boiling point/boiling range (°C):

Flash point (°C)

Evaporation rate

Not applicable
343°C

Not known.

Not known.

Not known.

Flammability (solid, gas) Solid , Non-flammable

Explosive limit ranges Not explosive. 39.6 (@107°C) Vapour pressure (Pascal) 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

 $\begin{array}{lll} \mbox{Decomposition temperature (°C)} & > 450 ^{\circ} \mbox{C} \\ \mbox{Viscosity (mPa. s)} & \mbox{Not known} \\ \mbox{Kinematic viscosity (mm²/s)} & \mbox{Not applicable} \end{array}$

Particle characteristics Granule (pellets) dimensions:

Length 2.0 – 4.0mm; diameter 2.0 – 3.5mm

No 'Nanoparticles' or 'Nanomaterial' substances (per the definition in EU Commission Recommendation 2022/3689/EU) have been generated in the manufacturing process, nor intentionally added to the Victrex grades detailed above.

9.2 Other information

Contains carbon fibre. Dusts from this compound

may be electrically conductive.

9.2.1 Information with regard to physical hazard classes

Explosives Not explosive

UNCONTROLLED IF PRINTED

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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) Oxides of carbon

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 Information on other hazards

11.2.1 **Endocrine disrupting properties** PEEK polymer does not contain components considered to

> have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU)

2018/605 at levels of 0.1% or higher

11.2.2 Other information None



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Low toxicity to aquatic organisms.

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 Endocrine disrupting properties PEEK polymer does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

12.7 Other adverse effectsNone anticipated

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

MARPOL73/78 and the IBC Code

Not applicable



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SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental

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 TSCA – Carbon Fibre Listed – ACTIVE

OSHA Not classified as a hazardous material under the criteria

outlined in the OSHA Hazard Communication Standard (HCS)

Not classified as dangerous for supply/use.

(29 CFR 1910.1200).

China

 IECSC – PEEK Polymer
 Listed

 IECSC – Carbon Fibre
 Listed

 China Hazardous Chemical Inventory 2015
 Not Listed

15.2 Chemical Safety Assessment Not relevant for this material.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated in line with Regulation (EC) No.

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

Training advice: <u>www.victrex.com</u>

Additional Information

Manufactured in the UK by Victrex Manufacturing Ltd, under a Quality System approved to ISO 9001.

Additional information on the properties, processing and application of VICTREX polymers is available at www.victrex.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.



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Regional Importer Addresses

Victrex USA, Inc. 300 Conshohocken State Road

Suite 120

West Conshohocken

PA, 19428 USA Tel: +(1) 484 342 6001

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China

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Victrex Global Sites

This information is provided "as is". It is not intended to amount to advice. Use of the product is at the customer's/user's risk. It is the customer's/user's responsibility to thoroughly test the product in each specific application to determine its performance, efficacy and safety for each end-use product, device or other application and compliance with applicable laws, regulations and standards. Mention of a product is no guarantee of availability. Victrex reserves the right to modify products, data sheets, specifications and packaging. Victrex makes no warranties, express or implied (including, without limitation, any warranty of fitness for a particular purpose or of intellectual property non-infringement) and will not be liable for any loss or damage of any nature (however arising) in connection with customer's/user's use or reliance on this information, except for any liability which cannot be excluded or limited by law. This document may be modified or retracted at any time without notice to the customer/user.

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