

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

ZYEX™ Fibres Natural and Black

Monofilament; Fine Monofilament; Multifilament;

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 Fabrics, Filtration, Wiring Harness and Strings.

1.4 Details of the supplier of the safety data sheet

1.4.1 Manufacturer Details

Company Identification

Victrex Manufacturing Ltd.

Hillhouse International, Thornton-Cleveleys
Lancashire, UK - FY5 4QD

Telephone

+ 44 (0) 1253 897700

Fax:

+ 44 (0) 1253 897701

E-Mail (competent person)

RAPS@victrex.com

1.4.2 Only Representative details

Company Identification

Stewardship Chemicals 40,

Dlugosza 67,
43-188 Orzesze,
Poland

+48 501168430

pawelskiba@stewardshipsolutions.eu

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 (24/7)

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

+(49) 6192 964 900 - Europe

+(1) 484 342 6001 – USA

+ 86-21-6113 6900 - China

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)

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

2.3 Other hazards

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

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.

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

Eye Contact	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	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 CO ₂ 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 emergency procedures	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 container for disposal or recovery.
6.4 Reference to other sections	None.
6.5 Additional Information	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 Victrex website www.victrex.com

7.2 Conditions for safe storage, including any incompatibilities

Storage Temperature

Store at room temperature.

Storage Life

10 Year(s).

Incompatible materials

None known

7.3 Specific end use(s)

The materials are generally used for Fabrics, Filtration, Wiring Harness and Strings.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits

Ensure adequate ventilation.

None.

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Dust. (general dust limit value)	-	-	10			Inhalable Dust
			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.



Respiratory protection



When dealing with heated material: Insulating gloves EN 407
(heat)

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 (Filament)
Colour.	Brown (natural)/Black
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)	~1.3
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
Kinematic viscosity (mm ² /s)	Not applicable
Particle characteristics	Filament/fibre form

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 Victrix grades detailed above.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosives Not explosive,

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.

10.5 Incompatible materials	Open flame, ignition sources. Decomposes at temperatures above 450°C.
10.6 Hazardous Decomposition Product(s)	Concentrated Sulphuric acid 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)

Serious eye damage/irritation

respiratory or skin sensitization

Mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Aspiration hazard

Not known

11.1.2 Mixtures

Not applicable

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

None

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

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 effects

None 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. Sweep up spillages immediately and transfer to a container for disposal. Do not release waste to sewers.

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)

UN number
Proper Shipping Name

Not classified as dangerous for transport.

Not applicable
Not applicable

14.2 Sea transport (IMDG)

UN number
Proper Shipping Name

Not classified as dangerous for transport.

Not applicable
Not applicable

14.3 Air transport (ICAO/IATA)

UN number
Proper Shipping Name

Not classified as dangerous for transport.

Not applicable
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 regulations/legislation specific for the substance or mixture

15.1.1 EU regulations

Authorisations and/or restrictions on use

None

Country	PEEK polymer CAS# 29658-26-2 or 31694-16-3
Australia (AICS)	Listed
Canada	DSL: Listed / NDSL: Not Listed

China	Listed
Japan	Listed
South Korea (K-REACH)	Listed
USA (TCSA)	Listed - ACTIVE

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 update -products covered by the MSDS changed to natural and black only

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: www.victrex.com

Additional Information

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

For the latest copy of this MSDS please check our website here [Material Safety Data Sheets \(MSDS\) - Victrex](http://Material Safety Data Sheets (MSDS) - Victrex)

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.

Regional Importer Addresses

Victrex USA, Inc.
300 Conshohocken State Road
Suite 120
West Conshohocken
PA, 19428 USA
Tel: [+\(1\) 484 342 6001](tel:+14843426001)

Victrex Europa GmbH
Langgasse 16
65719 Hofheim/Ts.
Germany
Tel: [+\(49\) 6192 964900](tel:+496192964900)

Victrex Japan Inc.
Mita Kokusai Building Annex
1-4-28, Mita, Minato-ku
Tokyo
108-0073 Japan
Tel: [+81 3 5427 4650](tel:+81354274650)

**Victrex High-performance
Materials (Shanghai) Co.,Ltd.**
Part B Building G, No 1688,
Zhuangxiong Road,
Xinzhuang Industry Park,
Shanghai 201108,

**Victrex Hong Kong
(Regional office)**
Room 2219
The Metropolis Tower
10 Metropolis Drive
Hung Hom, Kowloon

Victrex Taiwan
12F, No. 101,
Songren Rd.,
Xinyi District
Taipei City 110

China
Tel: +86-21-6113 6900

Hong Kong
Special administrative region, PRC
Tel: +852 2366 1357

Taiwan
Tel: +886-987118240

SDS Date of Preparation: 07-October-2025 **updated from SDS Revision:** 29-November-2024

[Victrex Global Sites](#)

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