



## 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 HT™ Powder P22 and P45**  
**VICTREX HT™ Granules G22 and G45**
- 1.2 Other means of identification**  
CAS No. 27380-27-4  
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**  
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](mailto:RAPS@victrex.com)
- 1.4.2 Only Representative details**  
Company Identification Stewardship Chemicals 40,  
Dlugosza 67,  
43-188 Orzesze,  
Poland  
Telephone: +48 501168430  
E-Mail (competent person) [pawelskiba@stewardshipsolutions.eu](mailto: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  
+(49) 6192 964 900 - Europe  
+(1) 484 342 6001 - USA  
Hours of operation 09:00 – 17:00 (Monday – Friday)

## 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.

None.

Signal word(s)

None.

Hazard statement(s)

None.

Precautionary statement(s)

None.

### 2.3 Other hazards

Not classified as PBT or vPvB.

PEK 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, may form explosible dust clouds in air  
See section 9.2 below.

### 2.4 Additional Information

None.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Polyetherketone (PEK) polymer (CAS No. 27380-27-4)

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.
Ingestion	Flush eyes with water for at least 2 minutes while holding eyelids open.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	Call a physician (or poison control centre immediately). Do not induce vomiting wash out mouth with water.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Unlikely to be required but if necessary treat symptomatically.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Unlikely to be required but if necessary treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>5.1 Extinguishing media</b>	
Suitable Extinguishing Media	In case of fire, use water spray, foam, dry powder or CO2 for extinction.
Unsuitable Extinguishing Media	None.
<b>5.2 Special hazards arising from the substance or mixture</b>	In case of fire the following can develop: Oxides of carbon.
<b>5.3 Advice for fire-fighters</b>	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.
<b>5.4 Other</b>	Dispose of contaminated extinction water according to official regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	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.
<b>6.2 Environmental precautions</b>	Avoid release to the environment. Prevent surface and ground water infiltration, as well as ground penetration.
<b>6.3 Methods and material for containment and cleaning up</b>	Sweep up carefully with non-sparking tools. Transfer to a lidded container for disposal or recovery.
<b>6.4 Reference to other sections</b>	None.
<b>6.5 Additional Information</b>	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](http://www.victrex.com) [www.victrex.com](http://www.victrex.com)

### 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.

## 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/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	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.  
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)

Respiratory protection



**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 (Powder/Granulate)
Colour.	White (Powder); Grey/ Brown (Granulate)
Odour	Odourless
Odour threshold (ppm)	None
pH (Value)	Not applicable
Melting point (°C)	372°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 <sup>2</sup> /s)	Not applicable
Particle characteristics	Granule (pellets) dimensions: Length 2.0 – 4.0mm; diameter 2.0 – 3.5mm Powder grades: Course white powder typically ~ 5mm particle size.

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**

**9.2.1 Information with regard to physical hazard classes**

**Explosives**

Not explosive, may form explosible dust clouds in air.



## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Stable under normal conditions.
<b>10.4 Conditions to avoid</b>	Stable under normal conditions. Electrostatic charge. Open flame, ignition sources. Decomposes at temperatures above 450°C.
<b>10.5 Incompatible materials</b>	Concentrated Sulphuric acid
<b>10.6 Hazardous Decomposition Product(s)</b>	Oxides of carbon

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008</b>	
<b>11.1.1 Substances</b>	
<b>Acute toxicity</b>	
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.
<b>Hazard label(s)</b>	Not known
<b>Serious eye damage/irritation</b>	Not known
<b>respiratory or skin sensitization</b>	Not known
<b>Mutagenicity</b>	Not known
<b>Carcinogenicity</b>	Not known
<b>Reproductive toxicity</b>	Not known
<b>STOT - single exposure</b>	Not known
<b>STOT - repeated exposure</b>	Not known
<b>Aspiration hazard</b>	Not known
<b>11.1.2 Mixtures</b>	Not applicable
<b>11.2 Information on other hazards</b>	None
<b>11.2.1 Endocrine disrupting properties</b>	PEK 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
<b>11.2.2 Other information</b>	None

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Low toxicity to aquatic organisms.
<b>12.2 Persistence and degradability</b>	Not readily biodegradable.



<b>12.3 Bioaccumulative potential</b>	Not classified as PBT or vPvB.
<b>12.4 Mobility in soil</b>	The product has low mobility in soil. The product has low mobility in sediment.
<b>12.5 Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6 Endocrine disrupting properties</b>	PEK 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
<b>12.7 Other adverse effects</b>	None anticipated

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	Disposal should be in accordance with local, regional, state or national legislation.
<b>13.2 Additional Information</b>	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

<b>14.1 Land transport (ADR/RID)</b> UN number Proper Shipping Name	Not classified as dangerous for transport. Not applicable Not applicable
<b>14.2 Sea transport (IMDG)</b> UN number Proper Shipping Name	Not classified as dangerous for transport. Not applicable Not applicable
<b>14.3 Air transport (ICAO/IATA)</b> UN number Proper Shipping Name	Not classified as dangerous for transport. Not applicable Not applicable
<b>14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable

### SECTION 15: REGULATORY INFORMATION

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	Not classified as dangerous for supply/use.
<b>15.1.1 EU regulations</b> 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).

**China**

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. 2020/878.

**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](http://www.victrex.com)

**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](http://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,  
Zhuanxing Road,  
Xinzhuang Industry Park,  
Shanghai 201108,  
China  
Tel: +86-21-6113 6900

**Victrex Hong Kong  
(Regional office)**

Room 2219  
The Metropolis Tower  
10 Metropolis Drive  
Hung Hom, Kowloon  
Hong Kong  
Special administrative region, PRC  
Tel: +852 2366 1357

**Victrex Taiwan**

12F, No. 101,  
Songren Rd.,  
Xinyi District  
Taipei City 110  
Taiwan  
Tel: +886-987118240

**SDS Date of Preparation: 06-December-2024 – updated from SDS Revision 12-December-2022**

[Victrex Global Sites](#)

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