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

1.1 Product identifier
Trade name: VICTREX™ PEEK Fine Powder
150PF; 150XF; 150UF; 450PF; 450PFX; 600PF and 650PF

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 compression moulding and coating operations.

1.4 Supplier 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

1.5 Emergency telephone number
Emergency Phone No.: + 44 (0) 1253 897754

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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
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]:

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>%W/W</th>
<th>EC No.</th>
<th>CAS No.</th>
<th>REACH Registration No.</th>
<th>Hazard statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None.</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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.

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**

<table>
<thead>
<tr>
<th>6.1</th>
<th>Personal precautions, protective equipment and emergency procedures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.2</th>
<th>Environmental precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Avoid release to the environment. Prevent surface and ground water infiltration, as well as ground penetration.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.3</th>
<th>Methods and material for containment and cleaning up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sweep up carefully with non-sparking tools. Transfer to a lidded container for disposal or recovery.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.4</th>
<th>Reference to other sections</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6.5</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None.</td>
</tr>
</tbody>
</table>

**SECTION 7: HANDLING AND STORAGE**

<table>
<thead>
<tr>
<th>7.1</th>
<th>Precautions for safe handling</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>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.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>7.2</th>
<th>Conditions for safe storage, including any incompatibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Store products enclosed, in original packing.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage Temperature</th>
<th>Store at room temperature.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Life</td>
<td>&gt; 10 Year(s).</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>None known</td>
</tr>
</tbody>
</table>
7.3 Specific end use(s) The materials are generally used for compression moulding and coating operations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Ensure adequate ventilation.

8.1.1 Occupational exposure limits None.

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust. (general dust limit value)</td>
<td>-</td>
<td>-</td>
<td>10</td>
<td></td>
<td>4</td>
<td>Ingredient</td>
</tr>
</tbody>
</table>

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)

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid (Powder)</td>
</tr>
<tr>
<td>Colour</td>
<td>White (Powder)</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold (ppm)</td>
<td>None</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point (°C)</td>
<td>343°C</td>
</tr>
<tr>
<td>Boiling point/boiling range (°C):</td>
<td>Not known.</td>
</tr>
</tbody>
</table>
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
Explosive properties Not explosive, May form explosible dust clouds in air.
Oxidising properties Not oxidising

9.2 Other information

<table>
<thead>
<tr>
<th>Grade</th>
<th>P max</th>
<th>Kst</th>
<th>St Class</th>
<th>Minimum Ignition Energy (mJ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>150UF10</td>
<td>7.3 bar g</td>
<td>171 bar m/s</td>
<td>1</td>
<td>8 – 10 mJ</td>
</tr>
<tr>
<td>150XF</td>
<td>7.3 bar g</td>
<td>136 bar m/s</td>
<td>1</td>
<td>10 – 15 mJ</td>
</tr>
<tr>
<td>150PF</td>
<td>7.5 bar g</td>
<td>126 bar m/s</td>
<td>1</td>
<td>400 – 500 mJ</td>
</tr>
<tr>
<td>450PF</td>
<td>6.9 bar g</td>
<td>124 bar m/s</td>
<td>1</td>
<td>&gt; 500 mJ</td>
</tr>
<tr>
<td>600PF</td>
<td>7.8 bar g</td>
<td>151 bar m/s</td>
<td>1</td>
<td>&gt; 500 mJ</td>
</tr>
</tbody>
</table>

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
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 toxicological effects

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.

**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

### 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)**
UN number: Not applicable
Proper Shipping Name: Not applicable

14.3 **Air transport (ICAO/IATA)**
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 regulations/legislation specific for the substance or mixture**
Not classified as dangerous for supply/use.

15.1.1 **EU regulations**
Authorisations and/or restrictions on use: None

15.1.2 **National regulations**
**USA**
TSCA – PEEK Polymer: 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 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

Training advice: 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. 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: 30 November 2021 – updated from SDS Revision 22 January 2016