

# PEEK 9581 Filament

SAFETY DATA SHEET



## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Product identifier</b>	
<b>Trade name</b>	PolyEtherEtherKetone (PEEK)
<b>Relevant identified uses of the substance or mixture and uses advised against</b>	
<b>Use of the Sub-stance/Mixture</b>	High performance thermoplastic
<b>Details of the supplier of the safety data sheet</b>	
<b>Company</b>	VSHAPER Sp. z o.o.
<b>Address</b>	Tajęcina 105, 36-002 Jasionka-Rzeszów, Poland
<b>Telephone</b>	+48 801 011 637
<b>E-mail</b>	contact@vshaper.com
<b>Emergency telephone number</b>	EU-wide emergency number: 112

## 2. HAZARDS IDENTIFICATION

<b>Classification of the substance or mixture</b>	
<b>Classification (REGULATION (EC) No 1272/2008)</b>	Not a hazardous substance
<b>Label elements</b>	
<b>Labelling (REGULATION (EC) No 1272/2008)</b>	Not a hazardous substance
<b>Other hazards</b>	
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures	
Remarks	No hazardous ingredients

### 4. FIRST AID MEASURES

General advice	Move out of dangerous area. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Give oxygen or artificial respiration if needed.
If inhaled	Move to fresh air. If symptoms persist, call a physician
In case of skin contact	Do NOT use solvents or thinners. Wash off with soap and water. If symptoms persist, call a physician. Cool melted product on skin with plenty of water. Do not re-move solidified product. In case of burns apply cold water until pain subsides then seek medical advice.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Keep eye wide open while rinsing.
If swallowed	If symptoms persist, call a physician.
<b>Most important symptoms and effects, both acute and delayed</b>	
Symptoms	No information available
<b>Indication of any immediate medical attention and special treatment needed</b>	
Treatment	No information available.

### 5. FIREFIGHTING MEASURES

Extinguishing media	<b>Suitable extinguishing media</b> Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	<b>Specific hazards during fire-fighting</b> Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions.  <b>Hazardous combustion products</b> Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## Advice for firefighters

### Special protective equipment for firefighters

Exposure to decomposition products may be a hazard to health. In the event of fire, wear self-contained breathing apparatus.

### Further information

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Ensure adequate ventilation.  
Use personal protective equipment. Avoid dust formation. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Avoid inhalation of vapour or mist. Contaminated surfaces will be extremely slippery. Treat recovered material as described in the section "Disposal considerations".

### Environmental precautions

#### Environmental precautions

Should not be released into the environment. Do not allow contact with soil, surface or ground water. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

### Methods and material for containment and cleaning up

#### Methods for cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid dust formation.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Advice on safe handling

Provide for appropriate exhaust ventilation and dust collection at machinery. The material can accumulate static charge and can therefore cause electrical ignition. Minimize dust generation and accumulation. Dust must be collected and disposed of carefully. Wear personal protective equipment. Do not breathe vapours/dust.

### Advice on protection against fire and explosion

Take measures to prevent the build up of electrostatic charge. During processing, dust may form explosive mixture in air. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

<b>Hygiene measures</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing. Keep away from food and drink. General industrial hygiene practice. When using do not eat, drink or smoke.
<b>Conditions for safe storage, including any incompatibilities</b>	
<b>Requirements for storage areas and containers</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Further information on storage conditions</b>	Keep away from heat and sources of ignition. Keep away from direct sunlight. Avoid moisture.
<b>Advice on common storage</b>	Keep away from food, drink and animal feedingstuffs
<b>Storage class (TRGS 510)</b>	11, Combustible Solids
<b>Specific end use(s)</b>	
<b>Specific use(s)</b>	For further information, refer to the product technical data sheet.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control parameters</b>	Contains no substances with occupational exposure limit values.
<b>Exposure controls</b>	
<b>Engineering measures</b>	Provide sufficient air exchange and/or exhaust in work rooms. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Apply measures to prevent dust explosions. Personal protective equipment
<b>Personal protective equipment</b>	
<b>Eye protection</b>	Safety glasses with side-shields
<b>Hand protection</b>	Protective gloves
<b>Skin and body protection</b>	Safety shoes Wear suitable protective clothing
<b>Respiratory protection</b>	Effective dust mask In the case of vapour formation use a respirator with an ap-proved filter.
<b>Protective measures</b>	Follow the skin protection plan.

## Remarks

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.

The exact break through time can be obtained from the protective glove producer and this has to be observed.

The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Request information on glove permeation properties from the glove supplier.

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Colour	Beige
Odour	characteristic
Odour Threshold	not determined
pH	not determined
Melting point/range	345°C
Boiling point/boiling range	not determined
Flash point	not determined
Flammability (solid, gas)	No data available
Upper explosion limit	No data available
Lower explosion limit	The product is not explosive at itself, but it may form explosive dust
Vapour pressure	not determined
Relative density	No data available
Density	not determined
Solubility(ies)	<b>Water solubility:</b> not determined <b>Solubility in other solvents:</b> not determined

Partition coefficient: n-octanol/water	No data available
Ignition temperature	not determined
Decomposition temperature	No data available
Viscosity	<b>Viscosity, dynamic:</b> Not applicable <b>Viscosity, kinematic:</b> Not applicable
Other information	
Conductivity	not determined

## 10. STABILITY AND REACTIVITY

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	The product is chemically stable.
Possibility of hazardous reactions	<b>Hazardous reactions</b> Finely dispersed particles form explosive mixtures with air. Burning produces noxious and toxic fumes.
Conditions to avoid	Keep away from heat and sources of ignition. Avoid dust formation. Avoid moisture.
Incompatible materials	<b>Materials to avoid:</b> No data available
Hazardous decomposition products	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

## 11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation	No known irritant effect. May cause irritation of respiratory tract.
Serious eye damage/eye irritation	Dust contact with the eyes can lead to mechanical irritation.
Respiratory or skin sensitisation	No known sensitising effect.

## 12. ECOLOGICAL INFORMATION

Toxicity	No data available
Persistence and degradability	No data available
Bio accumulative potential Partition coefficient: noctanol/ water	No data available

Mobility in soil	No data available
<b>Results of PBT and vPvB assessment</b>	
Assessment	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.
<b>Other adverse effects</b>	
Additional ecological information	Should not be released into the environment

### 13. DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	
Product	Dispose of in accordance with the European Directives on waste and hazardous waste. In accordance with local and national regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Contaminated packaging	Dispose of in accordance with local regulations. Dispose of as unused product.

### 14. TRANSPORT INFORMATION

UN number	Not regulated as a dangerous good
UN proper shipping name	Not regulated as a dangerous good
Transport hazard class(es)	Not regulated as a dangerous good
Packing group	Not regulated as a dangerous good
Environmental hazards	Not regulated as a dangerous good
Special precautions for user	Not applicable
Transport in bulk	

### 15. REGULATORY INFORMATION

<b>Regulatory information</b>	
Safety, health and environmental regulations/legislation specific for the substance or mixture	The product does not need to be labelled in accordance with EC directives or respective national laws
Chemical safety assessment	A Chemical Safety Assessment is not required for this substance.



## 16. OTHER INFORMATION

## Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CM R - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.