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# Safety data sheet: Z-PEEK

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

### 1.1. PRODUCT IDENTIFIER

Trade name: Z-PEEK

### 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified use: thermal processing for 3D printing in Layer Plastic Deposition (LPD) technology.

Use advised against: other than listed above

### 1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Supplier: Zortrax S.A.
Lubelska 34
10-409 Olsztyn
Poland
TEL. +48 89 672 40 01

Made in: USA

### 1.4. EMERGENCY TELEPHONE NUMBER

Emergency telephone number: 112

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

This product is not classified as dangerous according to Regulation (EC) No 1272/2008.

Physical Hazards: None

OSHA Regulatory Status: This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### 2.2. LABEL ELEMENTS

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### 2.3. OTHER HAZARDS

The product does not meet the criteria for PBT or vPvB classification.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. SUBSTANCES

Not applicable

## 3.2. MIXTURES

| Components | CAS No. | Concentration Range (%) |
|---|---|---|
| Polyether ether ketone | 29658-26-2 | 100 |

# SECTION 4. FIRST AID MEASURES

## 4.1. DESCRIPTION OF FIRST AID MEASURES

Eye contact: Flush with water. Consult physician if symptoms persist.

Skin contact: Wash with soap and water. For thermal burns from molten polymer, immediately flush with cold water.
Do not attempt to remove cooled polymer from skin. Obtain medical attention.

Ingestion: Not likely due to nature of product. If ingested, drink plenty of water. Do not induce vomiting. Consult a physician if symptoms persist.

Inhalation: Leave exposed area and seek fresh air. If irritation persists seek medical attention.

## 4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Most important symptoms/effect: no data available

## 4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to physician: treat symptomatically

# SECTION 5. FIREFIGHTING MEASURES

## 5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: Water spray, dry powder, and foam. Carbon dioxide ($CO_2$)

## 5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

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### 5.3. ADVICE FOR FIREFIGHTERS

Safety Precautions for Persons exposed to products of combustion should wear NIOSH approved self contained breathing apparatus and full protective equipment.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

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### 6.2. ENVIRONMENTAL PRECAUTIONS

Prevent or limit further leakage if possible. Avoid discharge of the product into drain, ground and surface water.

### 6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Spill or release: Clean up by vacuuming or sweeping to prevent falls. If molten, allow material to cool and place into an appropriate container for disposal.

### 6.4. REFERENCE TO OTHER SECTIONS

See SECTION 8 for personal protection information. See SECTION 13 for disposal considerations.

## SECTION 7. HANDLING AND STORAGE

### 7.1. PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with general safety regulations.

### 7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a dry, sprinkler equipped warehouse. Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion do not permit dust to accumulate.

### 7.3. SPECIFIC END USE(S)

See SECTION 1.2.

| | |
|---|---|
| Exposure scenario: | no data available |
| Other guidelines: | no data available |

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1. CONTROL PARAMETERS

| | |
|---|---|
| Exposure limits: | This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |

## 8.2. EXPOSURE CONTROLS

Individual protection measures, such as personal protective equipment:

| | |
|---|---|
| Eye protection: | Safety glasses with side shields are recommended. |
| Skin protection: | Canvas or cotton gloves are recommended. |
| Respiratory protection: | A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations. |
| Ventilation: | Local exhaust is preferred. |
| Other: | No protective equipment is needed under normal use conditions. |

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: | filament |
| Physical state: | solid (compressed) |
| Colors: | natural |
| Odor: | none |
| Odor threshold: | not applicable |
| pH: | no data available |
| Melting point: | 343° C |
| Initial boiling point and boiling range: | no data available |
| Flash point: | no data available |
| Evaporation rate: | no data available |
| Flammability: | no data available |
| Upper/lower flammability or explosive limits: | no data available |
| Vapor pressure: | negligible |
| Vapor density: | no data available |
| Relative density: | no data available |
| Solubility: | insoluble |
| Partition coefficient: n-octanol/water: | no data available |
| Auto-ignition temperature: | no data available |
| Decomposition temperature: | no data available |
| Viscosity: | no data available |

| | |
|---|---|
| Explosive properties: | no data available |
| Oxidizing properties: | no data available |

### 9.2. OTHER INFORMATION

| | |
|---|---|
| Specific Gravity: | >1 |

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. REACTIVITY

No reactivity under normal storage conditions.

### 10.2. CHEMICAL STABILITY

Stable under normal storage conditions.

### 10.3. POSSIBILITY OF HAZARDOUS REACTIONS

None under normal storage and processing.

### 10.4. CONDITIONS TO AVOID

Incompatible materials, including strong oxidizing agents

### 10.5. INCOMPATIBLE MATERIALS

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### 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition can yield intense heat, dense smoke, phenols, carbon dioxide, and carbon monoxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

No specific toxicological information is available.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. TOXICITY

No data available

### 12.2. PERSISTENCE AND DEGRADABILITY

No data available

### 12.3. BIOACCUMULATIVE POTENTIAL

No data available

### 12.4. MOBILITY IN SOIL

No data available

### 12.5. RESULTS OF PBT AND VPVB ASSESSMENT

No data available

### 12.6. OTHER ADVERSE EFFECTS

See SECTION 6.2.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. WASTE TREATMENT METHODS

Waste or unused product may be discarded in accordance with state, federal, and local regulations.

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN NUMBER

DOT, ADR, IMDG, IATA – not applicable

### 14.2. UN PROPER SHIPPING NAME

DOT, ADR, IMDG, IATA – not applicable

### 14.3. TRANSPORT HAZARD CLASS(ES)

DOT, ADR, IMDG, IATA – not applicable

### 14.4. PACKING GROUP

DOT, ADR, IMDG, IATA – not applicable

### 14.5. ENVIRONMENTAL HAZARDS

DOT, ADR, IMDG, IATA – not applicable

### 14.6. SPECIAL PRECAUTIONS FOR USER

DOT, ADR, IMDG, IATA – not applicable

### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

Not applicable

## SECTION 15. REGULATORY INFORMATION

### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

TSCA: Complies
EINECS/ELINCS: N/A
DSL/NDSL: Complies
PICCS: N/A
ENCS: Complies
IECSC: Complies
AICS: Complies
KECL: Complies

### 15.2. CHEMICAL SAFETY ASSESSMENT

A chemical safety assessment for the product has not been carried out.

## SECTION 16. OTHER INFORMATION

This Safety Data Sheet has been prepared on the basis of the currently available data on the product as well as of the Manufacturer's experience and knowledge. It should be treated as a guide for safe transportation, storage and handling. The given information is not to be considered as a warranty or quality specification. Additionally, it is the user's responsibility to handle the product in accordance with local regulations and standards.

End of Safety Data Sheet

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