

**SAFETY DATA SHEET**

According to Regulation (EC) No.1907/2006

**KEXCELLED PEEK K10IAS**

Product code:	Revision Number:	Revision date:	MSDS No.:
PEEK K10IAS	01	30/01/2023	KS058

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

Product name:	kexcelled 3D printing filament
Product code:	PEEK K10IAS
Product Use:	A filament to be used in 3D printing applications.
Supplier:	NorthBridge New Material Technology(Suzhou) Co.,Ltd
Address:	Building# B2, Chaoyang Industrial square, Caohu Industrial Park, Xiangcheng District, Suzhou. CN.
Responsible/issuing person:	wilson@northbridge3d.com
Emergency telephone numbers:	+86-(0512)-65801831

**2. HAZARDS IDENTIFICATION**

Possible Hazards:	Danger of burns while handling the hot product.
Other hazards:	No specific dangers known, if the regulations/notes for storage and handling are considered.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name:	poly(ether-ether-ketone)
CAS Number:	31694-16-3
Weight:	>99.5%
Remarks:	No hazardous ingredients

**4. FIRST AID MEASURES**

Inhalation:	After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm.
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	Provide medical aid.
<b>Skin contact:</b>	Areas affected by molten material should be quickly placed under cold running water. Burns caused by molten material require hospital treatment.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek immediate medical attention.
<b>Ingestion:</b>	Rinse mouth and then drink plenty of water. If difficulties occur: Seek medical attention.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms:</b>	No significant reaction of the human body to the product known.
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**5. FIRE-FIGHTING MEASURES**

<b>Suitable extinguishing media :</b>	water spray, dry powder, foam, carbon dioxide
<b>Special hazards arising from the substance or mixture:</b>	Carbon dioxide, carbon monoxide and unburned hydrocarbons(smoke).
<b>Special protective equipment:</b>	Wear a self-contained breathing apparatus.
<b>Further information:</b>	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions:** Ensure adequate ventilation.  
Use personal protective equipment.  
Sources of ignition should be kept well clear.

**Environmental precautions:** Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up:**

Sweep/shovel up. Avoid raising dust. Ensure adequate ventilation.

**Reference to other sections:** Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7. HANDLING AND STORAGE

**Precautions for safe handling :** Provide for appropriate exhaust ventilation and dust collection at machinery .  
The material can accumulate static charge and can therefore cause electrical ignition.  
Wear personal protective equipment.

**Protection against fire and explosion:** Avoid dust formation. Dust can form an explosive mixture with air. Provide exhaust ventilation. When the product is ground (chopped), dust explosion regulations should be noted.

**Conditions for safe storage, including any incompatibilities Further information on storage**

**conditions:** Protect against moisture. Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

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**Specific end use(s):** For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering measures:** 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.

**Respiratory protection:** Effective dust mask  
In the case of vapor formation use respirator with an approved filter.

**Hand protection:** Use additional heat protection gloves.

**Eye protection:** Safety glasses with side-shields (frame goggles).

**Body protection:** Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit.

**General safety and hygiene measures:** Avoid contact of molten material with skin. Avoid inhalation of dusts/mists/vapors. Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** filament  
**Color:** natural  
**Odour:** specific odor

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<b>Odor threshold:</b>	not determined
<b>pH Value:</b>	not soluble.
<b>Melting temperature:</b>	345 °C
<b>Boiling point/Boiling range:</b>	not determined.
<b>Flash point:</b>	not determined.
<b>Flammability:</b>	not data available
<b>Lower explosion limit:</b>	The product is not explosive at itself, but it may form explosive dust.
<b>Upper explosion limit:</b>	not data available.
<b>Ignition temperature:</b>	not determined.
<b>Vapor pressure:</b>	not determined.
<b>Density:</b>	1.28g/cm <sup>3</sup> .
<b>Relative vapor density:</b>	not determined.
<b>Solubility in water:</b>	not determined.
<b>Ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.

**10. STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No hazardous reactions if stored and handled as prescribed/indicated.
<b>Chemical stability:</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Conditions to avoid:</b>	Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.Avoid moisture.

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**Incompatibility:** No data available.

**Hazardous decomposition products:**

**Possible thermal decomposition products:**

Carbon monoxide, carbon dioxide and unburned  
hydrocarbons (smoke).

**11. TOXICOLOGICAL INFORMATION**

**Acute Toxicity:** No data available.

**Irritation:** No irritation is expected under intended use and  
appropriate handling.

**Respiratory/Skin sensitization:** May cause irritation of respiratory tract.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure):**

No data available.

**Other relevant toxicity information:** Based on our experience and the information available, no  
adverse health effects are expected if handled as  
recommended with suitable precautions for designated  
uses.

**12. ECOLOGICAL INFORMATION**

**Toxicity:** No data available.

**Persistence and degradability:** No data available.

**Bio accumulative potential:** No data available.

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**Mobility in soil (and other compartments if available):**

No data available.

**Results of PBT and vPvB assessment:**

The product contains no components considered to be either persistent ,bio accumulative and toxic(PBT),or very persistent and very biaccumulative(vPvB)at levels of % or higher.

**Additional information:**

Should not be released into the environment.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods:**

Must be disposed of or incinerated in accordance with local regulations.

**Contaminated packaging:**

Uncontaminated packaging can be recycled.

**14. TRANSPORT INFORMATION****UN number:**

Not classified as a dangerous good.

**UN proper shipping name:**

Not classified as a dangerous good.

**Transport hazard class(es):**

Not classified as a dangerous good.

**Packing group:**

Not classified as a dangerous good.

**Environmental hazards:**

Not classified as a dangerous good.

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture:**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is

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described in this subsection.

**Chemical Safety Assessment:**

Chemical Safety Assessment not required Product is not  
classified as hazardous.

**16. OTHER INFORMATION**

The information in this Material Safety Data Sheet (MSDS) is based on current knowledge and  
experience. No liability can be assumed for the accuracy and completeness of this information.