

## SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

### KEXCELLED THE K11™ PPSU

Product code:	Revision Number:	Revision date:	MSDS No.:
THE K11™ PPSU	02	02/08/2021	KS046

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

<b>Product name:</b>	kexcelled 3D printing filament
<b>Product code:</b>	THE K11™ PPSU
<b>Product Use:</b>	A filament to be used in 3D printing applications.
<b>Supplier:</b>	NorthBridge New Material Technology(Suzhou) Co.,Ltd
<b>Address:</b>	Building# B2, Chaoyang Industrial square, Caohu Industrial Park, Xiangcheng District, Suzhou. CN.
<b>Responsible/issuing person:</b>	wilson@northbridge3d.com
<b>Emergency telephone numbers:</b>	+86-(0512)-65801831

#### 2. HAZARDS IDENTIFICATION

<b>Possible Hazards:</b>	Danger of burns while handling the hot product.
<b>Other hazards:</b>	If small particles are generated during further processing handing or by other means,combustible dust concentrations may form in the air.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical name:</b>	Polyphenylene sulfone resins
<b>CAS Number:</b>	25135-51-7
<b>Weight:</b>	>99%
<b>Remarks:</b>	No hazardous ingredients

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	After inhalation of decomposition products, remove the
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	affected person to a source of fresh air and keep calm. 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.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms:</b>	Thermal decomposition can lead to release of hazardous gases and vapors.

#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media :** Foam,water spray, dry powder ,carbon dioxide

**Special hazards arising from the substance or mixture:**

Combustible material.In a fire,the polymer melts,producing droplets which may propagate fire.Once started,a fire will tend to self extinguish.Heating can release hazardous gases.

**Special protective equipment:** Wear a self-contained breathing apparatus.Fire fighters must wear fire resistant personal protective equipment.

#### 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal precautions:</b>	Ensure adequate ventilation.  Use personal protective equipment.  Sources of ignition should be kept well clear.
<b>Environmental precautions:</b>	Discharge into the environment must be avoided.
<b>Methods and material for containment and cleaning up:</b>	Sweep/shovel up. Avoid raising dust.Keep in property labeled containers.Keep in suitable,closed contains for disposal.Treat recovered material as described in the section "Disposal considerations".
<b>Reference to other sections:</b>	Information regarding exposure controls/personal protection and disposal considerations can be found in section 7 and 8.
<b>7. HANDLING AND STORAGE</b>	
<b>Precautions for safe handling :</b>	Take measures to prevent the build up of electrostatic charge.  Ensure all equipment is electrically grounded before beginning transfer operations.  Use only equipment and materials which are compatible with the product.
<b>Hygiene measures:</b>	Wash hands before breaks and at the end of workday.  Handle in accordance with good industrial hygiene and safety practice.
<b>Technical measures/Storage conditions:</b>	Keep container tightly closed.

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Keep away from heat and sources of ignition

Keep away from open flames, hot surfaces and sources of ignition.

To avoid thermal decomposition, do not overheat.

Avoid dust formation.

Do not smoke.

Refer to protective measures listed in sections 7 and 8.

**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:**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Use only respiratory protection that conforms to international/ national standards.

**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,

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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.

**Protection measures:** When using do not eat, drink or smoke.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	filament
<b>Color:</b>	natural
<b>Odour:</b>	odorless
<b>Odor threshold:</b>	not determined
<b>Boiling point/Boiling range:</b>	not determined.
<b>Flash point:</b>	not determined.
<b>Flammability:</b>	May form combustible dust concentrations in air. The product is not flammable
<b>Upper explosion limit:</b>	not data available.
<b>Ignition temperature:</b>	not determined.
<b>Vapor pressure:</b>	not determined.
<b>Density:</b>	not determined.
<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>	430°C.

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#### 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>	Heat, flames and sparks. To avoid thermal decomposition, do not overheat. Avoid dust formation.
<b>Incompatibility:</b>	Polymeric resins.
<b>Hazardous decomposition products:</b>	Carbon monoxide. Sulfur oxides Hydrocarbon. The release of other hazardous decomposition products is possible.

#### 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available.
<b>Irritation:</b>	No data available.
<b>Respiratory/Skin sensitization:</b>	May cause irritation of respiratory tract.
<b>Germ cell mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	No data available.
<b>Reproductive toxicity:</b>	No data available.
<b>Repeated dose toxicity and Specific target organ toxicity (repeated exposure):</b>	

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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.

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

No data available.

**Results of PBT and vPvB assessment:** No data available.

**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.

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**Environmental hazards:** Not classified as a dangerous good.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet.

Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

#### 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 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.