

SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

KEXCELLED THE K12™ PEI 9085

Product code:	Revision Number:	Revision date:	MSDS No.:
THE K12™ PEI 9085	02	02/08/2021	KS045

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

Product name:	kexcelled 3D printing filament
Product code:	THE K12™ PEI 9085
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:	Polyetherimide
CAS Number:	9002-98-6
Weight:	>99%
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.
Skin contact:	Areas affected by molten material should be quickly placed under cold running water. Burns caused by molten material require hospital treatment.
Eye contact:	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.
Ingestion:	Rinse mouth and then drink plenty of water. If difficulties occur: Seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms:	No significant reaction of the human body to the product known.
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5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing media for safety reasons:

Do not use a solid water stream as it may scatter and spread fire.

Hazards arising from the substance or mixture:

Fire will produce dense black smoke containing hazards combustion products, carbon oxides, hydrocarbon fragments, nitrogen oxides.

Special protective equipment: Do not enter fire area without proper protection including

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self-contained breathing apparatus and full protective equipment.

Specific hazards: Take precautionary measures against static discharges. Thermal decomposition can lead to release of irritating gases and vapors. Dust formed by operation such as cutting or grinding may form an explosive mixture in air.

6. ACCIDENTAL RELEASE MEASURES

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.

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

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ground (chopped), dust explosion regulations should be noted.

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

conditions: Avoid extreme heat. Avoid all sources of ignition: heat, sparks, open flame.

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 to reduce exposure:

Handle in accordance with good industrial hygiene and safety practices. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, ductwork, and other surfaces using appropriate personal protection.

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.

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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:	none or slight
Odor threshold:	not determined
pH Value:	not soluble.
Boiling point/Boiling range:	not determined.
Flash point:	not determined.
Flammability:	not data available
Lower explosion limit:	No data available.
Upper explosion limit:	not data available.

10. STABILITY AND REACTIVITY

Reactivity:	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability:	The product is stable if stored and handled as prescribed/indicated.
Conditions to avoid:	Do not exceed maximum temperatures recommended in the product literature.

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Hazardous decomposition products: Process vapors under recommended processing conditions may include trace levels of hydrocarbons, phenols, alkylphenols, diarylcarbonates, other substituted hydrocarbons, hydrogen cyanide (hydrocyanic acid).

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

Ecotoxicity effects: Do not flush into surface water or sanitary sewer system

Toxicity: No data available.

Persistence and degradability: No data available.

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Bio accumulative potential: No data available.

Mobility in soil (and other compartments if available):

No data available.

Other information: This material is not expected to be environmentally hazardous under normal use.

Additional information: Should not be released into the environment.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Recycling is encouraged. Landfill or incinerate in accordance with federal, state and local requirements. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.

14. TRANSPORT INFORMATION

Not regulated as hazardous for shipment, unless noted, under current transportation guidelines.

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

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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.