

SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

KEXCELLED PET K7CF

Product code:	Revision Number:	Revision date:	MSDS No.:
PET K7CF	01	06/05/2021	KS037

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

Product name:	kexcelled 3D printing filament
Product code:	PET K7CF
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

Health Effects:	Prolonged and /or repeated contacts: Risk of skin sensitization.When handled at high temperatures, can cause serious burns.
Potential Health Effects:	Eye contact: Contact with eyes may cause irritation.
Skin contact:	Substance may cause an allergic skin reaction.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation:	No particular interference was noted.Consult your doctor if necessary.
Target organ effects:	There were no target organ effects noted following ingestion or dermal exposure in animal studies.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical name:	Polyethylene terephthalate
CAS Number:	25038-59-9
Weight:	>70%
OSHA Exposure Limits:	TWA:3.5mg/m ³ STEL:7mg/m ³
ACGIH Exposure Limits:	None

All ingredients in quantities > 1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA definitions.

Other standards: This material can generate Particulates Not Otherwise Classifiable (PNOC).

The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m³ for total dust and 5 mg/m³ for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m³ for inhalable particulates and 3 mg/m³ for respirable particulates.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. Call a physician immediately.
Skin contact:	Do NOT use solvents or thinners. Wash off with soap and water. Get medical attention.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Call a physician immediately.
Ingestion:	Get medical attention.
Notes to physician:	Treat symptomatically

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5. FIRE-FIGHTING MEASURES

Flammable properties:	Not determined.
Suitable extinguishing media :	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazardous decomposition:	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Sulphur compounds Aldehydes Acids
Special protective equipment:	As in any fire, wear self-contained breathing apparatus for firefighters pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Under fire conditions	:Cool containers / tanks with spray water. Water mist may be used to cool closed containers. In the event of fire and/or explosion do not breathe fumes.
Other information:	Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions: Use personal protective equipment. See Section 8. Remove all sources of ignition. Avoid dust formation. Avoid contact with skin and eyes. Sweep up to prevent slipping hazard.

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 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

Safe handling advice: 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.

Storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of

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ignition. Keep away from direct sunlight. Keep away from food, drink and animal feedingstuffs.

Precautions: No special precautions required.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye/face protection:	Wear safety glasses for general purpose.
Hand protection:	Wear gloves (product handled in molten state).
Skin and body protection:	Wear protective clothing (product handled in molten state).
Respiratory protection:	In case of dust formation, wear a dust mask. In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures:	Avoid contact with skin, eyes, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black, filaments. Solid at room temperature.
Color:	Black.
Odour:	Odorless .
pH:	not determined.
Vapor pressure:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Density:	1.30~1.40g/cm ³
Boilingpoint/range:	Not applicable. Decomposition temperature: 350 °C (662F). Melting point/range: 240 – 260 °C.
Water solubility:	Insoluble.

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Solubility in other solvents: Noneknown.

10. STABILITY AND REACTIVITY

Stability: The product is chemically stable.

Materials to avoid: Haloalkane. Strong bases.strong acid.Acetone.

Decomposition: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).Sulphur compounds.Aldehydes.
Organic acids

Polymerization: Not applicable.

11. TOXICOLOGICAL INFORMATION

See section 3 for potential health effects. For detailed toxicological data, write or call the address or emergency number shown in section 1

12. ECOLOGICAL INFORMATION

Mobility: No data available

Bioaccumulation: No data available

13. DISPOSAL CONSIDERATIONS

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.

14. TRANSPORT INFORMATION

IMDG: Not regulated.

ICAO/IATA: Not regulated.

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15. REGULATORY INFORMATION

(Not meant to be all inclusive—selected regulations represented).

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

WEEE/ROHS DIRECTIVE:	CONFORMS
INVENTORIES:	EINECS (EU): Conforms
TSCA (USA):	Conforms
DSL (Canada):	Conforms
AICS (Australia):	Conforms
ECL (Korea):	Conforms

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.