

SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

KEXCELLED THE K5™ PETG

Product code:	Revision Number:	Revision date:	MSDS No.:
THE K5™ PETG	03	02/08/2021	KS015

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

Product name:	kexcelled 3D printing filament
Product code:	THE K5™ PETG
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
Classification:	1,4-Benzenedicarboxylic acid, polymer with 1,4-cyclohexanedimethanol and 1,2-ethanediol (CAS No. 025038- 91-9) is not classified according to Regulation (EC) 1272/2008 and Directive 67/548/EEC.
Labelling:	Not applicable

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:	Exposure at room temperature generally does not cause discomfort.If you come into contact with a melt,substance

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	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

Chemical name:	Poly (ethylene terephthalate-co-1,4-cyclohexylenedimethylene terephthalate)
CAS Number:	25038-91-9
Weight:	>99%
Classification:	See section 2

4. FIRST AID MEASURES

After skin contact:	Contact with normal materials has no adverse effects. If you come into contact with a melt, Remove contaminated clothing and shoes. Get medical attention if skin symptoms occurred. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Wash contaminated clothing and shoes before reuse.
After eye contact:	Get medical attention if eye symptoms occurred. In case of

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contact with molten substance, immediately flush eyes with water for at least 15 minutes. Get medical attention immediately.

After ingestion: Get medical attention if swallowed amount of substance.

Indication of immediate medical attention and notes for physician:

Call emergency medical service. Get medical advice/attention if you needed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If burned by contact with molten material, cool quickly as possible with water, and then go to see a physician for treatment of burn.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media: CO₂, water, san

Special fire-fighting procedures: Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing will only provide limited protection.

Special exposure hazards: Normal combustion release products for CO₂ and H₂O, no harm gas. Thermal decomposition products: Not available.

Hazardous combustion products: CO₂, CO.

Unusual fire and explosion hazards: No explosion hazards

Sensitivity to static discharge: Not available

6. ACCIDENTAL RELEASE MEASURES

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Personal precautions:	Stop leak if you can do it without risk. Isolate exposed area. Keep unauthorized personnel away. Use certificated protective equipment. Ventilate the leaked area.
Methods for cleaning up/removal:	Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas.

7. HANDLING AND STORAGE

Handling:	Avoid contact with molten material. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures.
Prevention of Fire and Explosion:	Not available
Storage:	Keep container closed. Store container in a well dry/cool place. Keep away from waterways and sewers. Keep away from any source of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards:	Specific exposure limits have not been established or are not applicable unless listed below. NIOSH- TWA: Not applicable OSHA- TWA: Not applicable ACGIH- TWA: Not applicable EU Regulation: Not applicable Biological Exposure Index: Not applicable
Engineering Controls:	Provide local exhaust ventilation system or other

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engineering controls to keep the airborne below their respective threshold limit value. Check legal suitability of exposure level.

Personal Protection:**Respiratory Protection:**

Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.

Eye Protection:

An eye wash unit and safety shower station should be available nearby work place. Wear safety glasses to protect eyes from scattering toxic substance.

Skin Protection:

It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, translucent, opaque, filament. Solid at room

Odor: Slight odor

pH: Not applicable

Melting / freezing point: Not applicable

Initial boiling point and boiling range: Not applicable

Flash point: Not applicable

Flammability: Not applicable

Evaporation rate: Not applicable

Upper/lower flammability or explosive limits:

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Not applicable

Vapor pressure: Negligible (20°C)

Density: 1.27g/cm³

Vapor density: Not available

Water solubility: Negligible

Specific gravity: > 1

Log partition coefficient (n-octanol/water):

Not available

Auto ignition temperature: 454°C (ASTM E659)

Decomposition temperature: Not available

Viscosity: Not available

10. STABILITY AND REACTIVITY

Stability: Not available

Conditions to avoid: Avoid contact with incompatible materials.Avoid release to the environment.

Materials to avoid: Not available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Not available

Skin corrosion/irritation: Molten material will produce thermal burns

Serious eye damage/irritation: Molten material will produce thermal burns

Respiratory or skin sensitization: Not available

Germ cell mutagenicity: Not available

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Carcinogenicity: IARC, NTP, OSHA, CGIH, EU Regulation 1272/2008, US EPA:
not listed

Reproductive toxicity: Not available

STOT-single exposure: Not available

STOT-repeated exposure: Not available

Aspiration hazard: Not available

12. ECOLOGICAL INFORMATION

Toxicity: Not available

Persistence and degradability: Not available

Bioaccumulative potential: Not available

Mobility in soil: Not available

Other adverse effects: Not available

13. DISPOSAL CONSIDERATIONS

Disposal method: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Disposal precaution: Consider the require attentions in accordance with waste treatment management regulation.

14. TRANSPORT INFORMATION

UN #: Not regulated as a hazardous material.

Class: Not applicable

Proper shipping name: Not applicable

Packing group: Not applicable

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Marine pollutant: Not applicable

Other information: Not applicable

15. REGULATORY INFORMATION**Dangerous as defined by the EU CLP 2008:**

This product is not classified and labelled as dangerous
according to EC directives.

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.