

SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

KEXCELLED PVA K5

Product code:	Revision Number:	Revision date:	MSDS No.:
PVA K5	02	03/08/2021	KS04.20.2401

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

Product name:	kexcelled 3D printing filament
Product code:	PVA K5
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

Hazard summary:	Dusts may irritate the respiratory track,skin and eyes.Exposed individuals may experience eye tearing,redness,and discomfort.Liberated dust may irritate throat and respiratory system and cause coughing.Prolonged contact may cause dryness of the skin. Prevention: Use personal protective equipment as required.
Response:	No specific first aid measures noted.
Storage:	Store in a dry area.Store in a closed container.
Disposal:	Dispose of waste and residues in accordance with local authority requirements.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical name: Polyvinyl alcohol compound

CAS Number: 9002-89-5

Weight: >96%

4. FIRST AID MEASURES

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact: Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Notes to physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Foam. Water fog. Carbon dioxide (CO₂). Dry chemical. Apply extinguishing media carefully to avoid creating airborne dust.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Hazardous decomposition: Burning produces obnoxious and toxic fumes Aldehydes products Carbon monoxide (CO) carbon dioxide (CO₂).

Special hazards arising from the substance or mixture:

Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous

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to health may be formed.

Advice for firefighters Special protective equipment for firefighters:

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures:

Move containers from fire area if you can do so without risk.

Specific methods:

Use standard firefighting procedures and consider the hazards of other involved materials.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Keep unnecessary personnel away. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up.

Environmental precautions:

Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up:

Shovel into suitable container for disposal. Following product recovery, flush area with water.

7. HANDLING AND STORAGE

Safe handling advice:

Avoid contact with skin and eyes. Workers should be protected from the possibility of contact with molten material during fabrication. Low hazard for usual industrial

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	or commercial handling. Use personal protective equipment.
Storage conditions:	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see section 10 of the SDS).
Specific end use(s):	For industrial use only. Thermoplastic processing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Biological limit values:	No biological exposure limits noted for the ingredient(s).
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Hand protection:	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Skin and body protection:	Wear protective clothing (product handled in molten state).
Respiratory protection:	Wear suitable protective clothing. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter.
Thermal hazards:	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Filaments. Solid at room temperature.
Color:	Clear.

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Odour: Not available.

pH Value: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Evaporation rate: Not available.

Boilingpoint/range: Not available.

10. STABILITY AND REACTIVITY

Stability: Material is stable under normal conditions.

Conditions to avoid: Keep away from heat, sparks and open flame. Contact with incompatible materials. Minimise dust generation and accumulation.

Decomposition: Carbon oxides.

Incompatible materials: strong oxidizing agents. Strong acids.

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation: Direct contact with eyes may cause temporary irritation.

12. ECOLOGICAL INFORMATION

Toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability: No data is available on the degradability of this product.

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13. DISPOSAL CONSIDERATIONS

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution.

14. TRANSPORT INFORMATION

IMDG: Not regulated.

IATA/ICAO: Not regulated.

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.

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.