

## SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

### KEXCELLED ABS K5P

Product code:	Revision Number:	Revision date:	MSDS No.:
ABS K5P	03	30/07/2021	KS014

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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>	ABS K5P
<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>Physical/chemical hazards :</b>	Not classified as dangerous substance
<b>Symptom(s) of (over )exposure</b>	
<b>Inhalation :</b>	Irritation
<b>Ingestion :</b>	No hazards
<b>Skin contact :</b>	No effects
<b>Eye contact :</b>	Irritation
<b>Target organ effects:</b>	There were no target organ effects noted following ingestion or dermal exposure in animal studie.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Chemical name:</b>	Acrylonitrile Butadiene Styrene Copolymer
<b>CAS Number:</b>	9003-56-9

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---

**Weight:** >95%

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

#### 4. FIRST AID MEASURES

**Ingestion :** Rinse mouth with water to remove dust, and drink plenty of water to help reduce the irritation.

**Inhalation:** Remove to fresh air. Drink water to clear throat, and blow nose to remove dust

**Skin contact:** Wash off in flowing water or shower

**Eye contact:** Flush eyes with large amounts of water for 5 ~ 15 minutes. If irritation persists, contact a physician.

#### 5. FIRE-FIGHTING MEASURES

**Summary :** Normal fire fighting procedures should be followed to avoid inhalation of smoke and gases Unusual fire/explosion hazards CO, SM, etc.

**Extinguishing media :** Carbon dioxide, dry chemical, or foam

#### Flammable Properties and Explosive Limits :

**Flame classification :** HB

**Flame propagation :** Not determined

**Lower Explosive Limit ( LEL ) :** Not determined

**Upper Explosive Limit ( UEL ) :** Not determined

**Autoignition Temperature :** Not determined

**Hazardous decomposition:** Burning produces obnoxious and toxic fumes Aldehydes

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	products Carbon monoxide (CO) carbon dioxide (CO <sub>2</sub> ).
<b>Special protective equipment:</b>	As in any fire, wear self-contained breathing apparatus for firefighters pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Under fire conditions:</b>	Cool containers / tanks with spray water. Water mist may be used to cool closed containers.
<b>Other information:</b>	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

<b>Personal precautions:</b>	Pellets or beads may present a slipping hazard.
<b>Environmental precautions:</b>	Keep out of irrigation ditches, sewers, and water supplies. Spills should be collected to prevent contamination of waterways and prevent fish and birds feeding from drainage system.
<b>Methods for cleaning up:</b>	Recycle or incinerate at an approved waste disposal site.

#### 7. HANDLING AND STORAGE

<b>Safe handling advice:</b>	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 or commercial handling. Use personal protective
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	equipment.
<b>Storage conditions:</b>	Store in a dry, cool place. No special restrictions on storage with other products.
<b>Precautions:</b>	No special precautions required

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	opaque, filaments. Solid at room temperature.
<b>Color:</b>	Opaque.
<b>Odour:</b>	NO
<b>pH:</b>	not applicable.
<b>Vapor pressure:</b>	Not determined.
<b>Vapor density:</b>	Not determined.
<b>Evaporation rate:</b>	Not determined.
<b>Density:</b>	1.03-1.10g/cm <sup>3</sup>
<b>Boilingpoint:</b>	Not applicable.
<b>Water solubility:</b>	Insoluble.

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**Solubility in other solvents:** acetone.

**Melting point:** 180-200°C(392°F).

#### 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions. Conditions

**Conditions to avoid:** Temperatures above 280°C(536°F).

**Materials to avoid:** Oxidizing agents. Strong acid. Strong alkali.

**Decomposition:** Burning produces obnoxious and toxic fumes. Aldehydes.  
Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**Polymerization:** Not applicable.

#### 11. TOXICOLOGICAL INFORMATION

##### Acute Toxicity

**Ingestion:** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

**Inhalation:** No adverse effects are anticipated from single exposure to dust. Vapours released during thermal processing may cause respiratory irritation. The LC50 has not been determined.

**Eye damage/eye irritation:** Solid or dust may cause irritation or corneal injury due to mechanical action. Elevated temperatures may generate vapour levels sufficient to cause eye irritation. Effects may include discomfort and redness.

**Skin corrosion/irritation:** Prolonged contact is essentially nonirritating to skin.  
Mechanical injury only. Under normal processing

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conditions, material is heated to elevated temperatures;  
contact with the material may cause thermal burns.

#### 12. ECOLOGICAL INFORMATION

**Toxicity:**

Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

**Persistence and Degradability:**

This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

**Mobility:**

No data available

#### 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.

**ADR / RID:** Not regulated

**ADN/ADNR:** Not regulated

**IATA-DGR:** Not regulated

#### 15. REGULATORY INFORMATION

NOTICE: The information herein is presented in good faith and believed to be accurate as of the print

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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.

#### **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.