

According to Regulation (EC) No.1907/2006

# KEXCELLED PLA K3

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K3	01	20/10/2022	KS063

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

Product name:	kexcelled 3D printing filament
Product code:	PLA K3
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 irritation.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea,
	vomiting and diarrhea.
Inhalation:	Inhalation of dust may cause shortness of breath, tightness
	of the chest, a sore throat and cough. Low hazard for usual
	industrial or commercial handling.
Target organ effects:	There were no target organ effects noted following
	ingestion or dermal exposure in animal studies.



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3. COMPOSITION/INFOR	MATION ON I	INGREDIENT	S	
Chemical name:		Polylactic r	esin	
CAS Number:		9051-89-2		
Weight:		≥87%		
OSHA Exposure Limits:		None		
ACGIH Exposure Limits: None				
All ingredients in quantities > 1.0% (0.1% for carcinogens) that are potentially hazardous per OSHA				hazardous per OSHA
definitions.				
Other standards:		This material can generate Particulates Not Otherwise		
		Classifiable	e (PNOC).	
The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m3 for total				C 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				and 3 mg/m3 for

respirable particulates.

### 4. FIRST AID MEASURES

Inhalation:	Move to fresh air. Call a physician immediately.
Skin contact:	Rinse immediately with plenty of water for at least 15
	minutes. If skin irritation persists, call a physician. Cool skin
	rapidly with cold water after contact with hot polymer.
Eye contact:	Rinse immediately with plenty of water, also under the
	eyelids, for at least 15 minutes. Call a physician immediately.
Ingestion:	Drink water as a precaution. Never give anything by mouth to
	an unconscious person. Do not induce vomiting without



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	medical a	dvice. Call a physician imm	ediately.	
Notes to physician:	physician: Treat symptomatically			
5. FIRE-FIGHTING MEASU	IRES			
Flammable properties:	Autoignit	Autoignition temperature: 388 $^\circ\!\!\mathbb{C}$		
Suitable extinguishing m	edia : Foam. W	ater. Carbon dioxide (CO2)	). Dry chemical.	
	Alcoholre	esistant foams are preferre	ed if available.	
	General-	purpose synthetic foams (i	ncluding AFFF) or protein	
	foams m	ay function, but much less	effectively.	
Hazardous decompositio	n: Burning	Burning produces obnoxious and toxic fumes Aldehydes		
	products Carbon monoxide (CO) carbon dioxide (CO2).		rbon dioxide (CO2).	
Special protective equipr	nent: As in any	As in any fire, wear self-contained breathing apparatus for		
	fire fight	fire fighters pressure demand, MSHA/NIOSH (approved or		
	equivale	nt) and full protective gear		
Under fire conditions:	Cool con	Cool containers / tanks with spray water. Water mist may be		
	used to c	ool closed containers.		
Other information:	Fine dust	dispersed in air may ignite	e. Risks of ignition	
	followed	by flame propagation or s	econdary explosions	
	shall be p	prevented by avoiding accu	umulation of dust, e.g. on	
	floors an	d ledges.		

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment. See Section 8. Remove	
	all sources of ignition. Avoid dust formation. Avoid contact	



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	W	ith skin and eyes. Sweep up 1	to prevent slipping hazard.
Environmental precau	tions: D	o not flush into surface wate	r or sanitary sewer system. Do
	n	ot allow material to contamir	nate ground water system.
Methods for cleaning	up: S	hovel into suitable container	for disposal.
7. HANDLING AND ST	ORAGE		
Safe handling advice:		void contact with skin and ey	res. Workers should be
		rotected from the possibility	of contact with molten
		naterial during fabrication. Lo	w hazard for usual industrial
	0	r commercial handling. Use p	ersonal protective
	e	quipment.	
Storage conditions:	S	tore in cool place. Keep at te	mperatures below 50°C(122F)
	Ν	o special restrictions on stora	age with other products.
Precautions:	Ν	o special precautions require	ed.

## 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



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Product code:	Revision Number:	Revision date:	MSDS No.:	
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Appearance:	Clear, 1	translucent, opaque, fila	ments. Solid at room	
	tempe	rature.		
Color:	Clear,T	Clear, Translucent, Opaque.		
Odour:	Sweet.			
pH:	Not ap	plicable.		
Vapor pressure:	Not de	termined.		
Vapor density:	Not de	termined.		
Evaporation rate:	Notde	Not determined.		
Density:	>1.22g	/cm3		
Boilingpoint/range:	Not ap	Not applicable. Decomposition temperature: 280 $^\circ$ C (536F).		
	Meltin	g point/range:155 – 185	°C.	
Water solubility:	Insolut	ole.		
Solubility in other solven	<b>ts:</b> Nonek	Noneknown.		
10. STABILITY AND REACT	ΓΙVΙΤΥ			
Stability:	Stable	under recommended sto	orage conditions. Conditions	
	to avoi	id:Temperatures above 2	230°C (446F).	
Materials to avoid:	Oxidizi	ng agents. Strong bases.		
Decomposition:	Burnin	g produces obnoxious ar	nd toxic fumes. Aldehydes.	
	Carbor	n monoxide (CO). Carbon	dioxide (CO2).	
Polymerization:	Not ap	plicable.		

### **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.



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12. ECOLOGICAL INFORM	IATION			
Mobility:	No data a	vailable		
Bioaccumulation:	Does not	bioaccumulate. Inherently	biodegradable	
13. DISPOSAL CONSIDER	ATIONS			
Controlled incineration or	landfill according to local	, state or national laws an	d regulations concerning	
health and pollution.				
14. TRANSPORT INFORM	ATION			
IMDG:	Not regul	ated.		
ICAO/ IATA:	Not regul	ated		
15. REGULATORY INFORM	MATION			
(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	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



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AICS (Australia):	Conform		
ECL (Korea):	Conform	ns	

### **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.