

According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5T

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K5T	04	23/08/2022	KS002

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

Product name:	kexcelled 3D printing filament
Product code:	PLA K5T
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.



According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5T

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K5T	04	23/08/2022	KS002

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name:	Polylactic resin
CAS Number:	9051-89-2
Weight:	>96%
OSHA Exposure Limits:	None
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:	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	

- 2 -



According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5T

Product code:	Revision Number:	Revision date:	MSDS No.:	
PLA K5T	04	23/08/2022	KS002	
	medical ad	dvice. Call a physician imm	ediately.	
Notes to physician:	Treat sym	Treat symptomatically		
5. FIRE-FIGHTING MEASU	IRES			
Flammable properties:	Autoignit	ion temperature: 388 $^\circ\!$		
Suitable extinguishing m	nguishing media : Foam. Water. Carbon dioxide (CO2). Dry chemical.		. Dry chemical.	
	Alcoholre	esistant foams are preferre	d if available.	
	General-	ourpose synthetic foams (ii	ncluding AFFF) or protein	
	foams ma	ay function, but much less	effectively.	
Hazardous decompositio	n: Burning p	Burning produces obnoxious and toxic fumes Aldehydes		
	products	Carbon monoxide (CO) car	bon dioxide (CO2).	
Special protective equipment: A		As in any fire, wear self-contained breathing apparatus for		
	fire fighte	ers pressure demand, MSH	A/NIOSH (approved or	
	equivaler	nt) and full protective gear.		
Under fire conditions:	Cool cont	ainers / tanks with spray v	vater. Water mist may be	
	used to c	ool closed containers.		
Other information:	Fine dust	dispersed in air may ignite	. Risks of ignition	
	followed	by flame propagation or se	econdary explosions	
	shall be p	prevented by avoiding accu	mulation of dust, e.g. on	
	floors and	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	



According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5T

Product code:	Revision Numbe	r: Revision date:	MSDS No.:
PLA K5T	04	23/08/2022	KS002
	W	th skin and eyes. Sweep up t	o prevent slipping hazard.
Environmental precautions:		o not flush into surface water	r or sanitary sewer system. Do
	nc	ot allow material to contamin	ate ground water system.
Methods for cleaning	s up: Sh	Shovel into suitable container for disposal.	
7. HANDLING AND ST	ORAGE		
Safe handling advice:		oid contact with skin and ey	es. Workers should be
		otected from the possibility	of contact with molten
		aterial during fabrication. Lo	w hazard for usual industrial
		commercial handling. Use p	ersonal protective
	ec	uipment.	
Storage conditions:	St	ore in cool place. Keep at ter	mperatures below 50°C(122F)
	N	o special restrictions on stora	ge with other products.
Precautions:	N	o special precautions require	d.
8. EXPOSURE CONTR	OLS / PERSONAL PRO	TECTION	

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



According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5T

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K5T	04	23/08/2022	KS002
Appearance:	Clear, tra	nslucent, opaque, filamen	ts. Solid at room
	temperat	ture.	
Color:	Clear, Tra	anslucent.	
Odour:	Sweet.		
pH:	Not appl	icable.	
Vapor pressure:	Not dete	rmined.	
Vapor density:	Not dete	rmined.	
Evaporation rate:	Notdete	rmined.	
Density:	1.22 - 1.2	25g/cm3	
Boilingpoint/range:	Not appl	Not applicable. Decomposition temperature: 280 $^\circ$ C (536F).	
	Melting	point/range:155 – 185 °C.	
Water solubility:	Insoluble		
Solubility in other solven	ts: Nonekno	own.	
10. STABILITY AND REACT	ΓΙVΙΤΥ		
Stability:	Stable ur	nder recommended storage	e conditions. Conditions
	to avoid:	Temperatures above 230°	C (446F).
Materials to avoid:	Oxidizing	agents. Strong bases.	
Decomposition:	Burning	produces obnoxious and to	xic fumes. Aldehydes.
	Carbon n	nonoxide (CO). Carbon dio	xide (CO2).
Polymerization:	Not appl	icable.	

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.



According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5T

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K5T	04	23/08/2022	KS002
12. ECOLOGICAL INFORM	IATION		
Mobility:	No data	available	
Bioaccumulation:	Does not	t bioaccumulate. Inheren	tly biodegradable
13. DISPOSAL CONSIDER/	ATIONS		
Controlled incineration or	landfill according to loca	al, state or national laws a	and regulations concerning
health and pollution.			
14. TRANSPORT INFORM	ATION		
IMDG:	Not regu	lated.	
ICAO/ IATA:	Not regu	lated	
15. REGULATORY INFORMATION			
(Not meant to be all inclu	sive—selected regulation	s 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 ma	subject to change and may differ from one location to another; it is the buyer's responsibility to		
ensure that its activities c	ensure that its activities comply with federal, state or provincial, and local laws. The following specific		
information is made for the	he 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



According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5T

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K5T	04	23/08/2022	KS002
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.