

According to Regulation (EC) No.1907/2006

KEXCELLED PLA K5P

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K5P	02	25/11/2022	KS008

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

Product name:	kexcelled 3D printing filament
Product code:	PLA K5P
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/INFORMATION ON INGREDIENTS

Chemical name:	Polylactic resin
CAS Number:	9051-89-2
Weight:	>85%
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.

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Other standards:
This material can generate Particulates Not Otherwise

Classifiable (PNOC).
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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	



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	medical a	dvice. Call a physician imm	ediately.	
Notes to physician:	Treat sym	ptomatically		
5. FIRE-FIGHTING MEASU	IRES			
Flammable properties:	Autoignit	tion temperature: 388 $^\circ\!\!\mathbb{C}$		
Suitable extinguishing m	edia : Foam. W	ater. Carbon dioxide (CO2)	. Dry chemical.	
	Alcoholre	esistant foams are preferre	d 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) ca	rbon dioxide (CO2).	
Special protective equipr	nent: As in any	As in any fire, wear self-contained breathing apparatus for		
	fire fight	ers pressure demand, MSH	A/NIOSH (approved or	
	equivale	nt) and full protective gear		
Under fire conditions:	Cool con	tainers / tanks with spray v	vater. 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 so	econdary explosions	
	shall be p	prevented by avoiding accu	mulation 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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	with	n skin and eyes. Sweep up t	o prevent slipping hazard.	
Environmental precautio	Do Do	not flush into surface water	or sanitary sewer system. Do	
	not	allow material to contamin	ate ground water system.	
Methods for cleaning up	: Sho	vel into suitable container f	or disposal.	
7. HANDLING AND STOR	AGE			
Safe handling advice:		id contact with skin and eye	es. Workers should be	
		protected from the possibility of contact with molten		
		material during fabrication. Low hazard for usual industrial		
	or c	or commercial handling. Use personal protective		
	equ	ipment.		
Storage conditions:	Stor	re in cool place. Keep at ter	nperatures below 50°C(122F).	
	No	special restrictions on stora	ge with other products.	
Precautions:	No	special precautions required	d.	
8. EXPOSURE CONTROLS	/ PERSONAL PROTE	CTION		

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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Appearance:	Clear, tra	nslucent, opaque, filam	ents. Solid at room
	temperat	cure.	
Color:	Clear,Tra	nslucent, Opaque.	
Odour:	Sweet.		
pH:	Not appli	cable.	
Vapor pressure:	Not dete	rmined.	
Vapor density:	Not dete	rmined.	
Evaporation rate:	Notdeter	rmined.	
Density:	>1.20g/cr	m3	
Boilingpoint/range:	Not appl	Not applicable. Decomposition temperature: 280 $^\circ$ C (536F).	
	Melting p	ooint/range:155 – 185°	С.
Water solubility:	Insoluble		
Solubility in other solven	ts: Nonekno	Noneknown.	
10. STABILITY AND REAC	ΓΙVΙΤΥ		
Stability:	Stable ur	der recommended stor	age conditions. Conditions
	to avoid:	Temperatures above 23	0°C (446F).
Materials to avoid:	Oxidizing	agents. Strong bases.	
Decomposition:	Burning p	produces obnoxious and	l toxic fumes. Aldehydes.
	Carbon n	nonoxide (CO). Carbon d	lioxide (CO2).
Polymerization:	Not appli	cable.	

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	ATION		
Mobility:	No data	available	
Bioaccumulation:	Does no	t bioaccumulate. Inher	ently biodegradable
13. DISPOSAL CONSIDERA	ATIONS		
Controlled incineration or	landfill according to loca	al, state or national law	vs and regulations concerning
health and pollution.			
14. TRANSPORT INFORMATION			
IMDG:	Not regu	lated.	
ICAO/ IATA:	Not regu	llated	
15. REGULATORY INFORM	IATION		
(Not meant to be all inclus	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	y differ from one locatio	n to another; it is the b	ouyer's responsibility to
ensure that its activities c	omply with federal, state	e or provincial, and loca	al 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.

WEEE/ROHS DIRECTIVE:	CONFORMS
INVENTORIES:	EINECS (EU): Conforms
TSCA (USA):	Conforms
DSL (Canada):	Conforms



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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.