

According to Regulation (EC) No.1907/2006

KEXCELLED PLA K6FR

Product code:	Revision Number:	Revision date:	MSDS No.:
PLA K6FR	02	03/08/2021	KS011

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

Product name:	kexcelled 3D printing filament
Product code:	PLA K6FR
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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PLA K6FR	02	03/08/2021	KS011

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name:	Polylactic resin
CAS Number:	9051-89-2
Weight:	>70%
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 person to fresh air; if effects occur, consult a physician.Skin contact:Wash skin with plenty of water. Seek first aid or medical
attention as needed. If molten material comes in contact
with the skin, do not apply ice but cool under ice water or
running stream of water. DO NOT attempt to remove the
material from skin. Removal could result in severe tissue
damage.
Seek medical attention immediately. Suitable emergency

- 2 -



According to Regulation (EC) No.1907/2006

KEXCELLED PLA K6FR

Product code:	Revision Nu	mber:	Revision date:	MSDS No.:
PLA K6FR	02		03/08/2021	KS011
		safety shov	ver facility should be im	mediately available.
Eye contact:		Flush eyes	thoroughly with water	for several minutes.
		Remove co	ntact lenses after the ir	nitial 1-2 minutes and
		continue fl	ushing for several addit	ional minutes. If effects
		occur, cons	ult a physician, prefera	bly an ophthalmologist.
Ingestion:		If swallowe	d, seek medical attenti	on. May cause
		gastrointes	tinal blockage. Do not ទួ	give laxatives. Do not
		induce vom	niting unless directed to	do so by medical
		personnel.		
5. FIRE-FIGHTING MEASU	RES			
Suitable extinguishing me	edia :	Water fog	or fine spray. Dry chem	nical fire extinguishers.
		Carbon die	oxide fire extinguishers.	Foam.
Hazardous decomposition	n:	During a fi	re, smoke may contain	the original material in
		addition to	o combustion products	of varying composition
		which may	/ be toxic and/or irritati	ng. Combustion products
		may includ	de and are not limited t	o: Nitrogen oxides. Carbon
		monoxide	. Carbon dioxide. Comb	ustion products may
		include tra	ace amounts of: Styrene	e. Hydrogen cyanide.
Special protective equipn	nent:	As in Wea	r positive-pressure self-	contained breathing
		apparatus	(SCBA) and protective	fire-fighting clothing
		(includes f	ire-fighting helmet, coa	it, trousers, boots, and
		gloves). If	protective equipment i	s not available or not used,
		fight fire f	rom a protected locatio	n or safe distance.



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Fire-fighting procedures:	I	Keep peop	le away. Isolate fire and o	leny unnecessary entry.
	S	Soak thore	oughly with water to cool	and prevent re-ignition.
	I	f material	is molten, do not apply d	irect water stream. Use
	f	ine water	spray or foam. Cool surro	oundings with water to
	I	ocalize fir	e zone. Hand held dry che	emical or carbon dioxide
	e	extinguish	ers may be used for small	fires.
Other information:	I	ine dust o	dispersed in air may ignite	. Risks of ignition
	f	followed b	y flame propagation or se	econdary explosions
	5	shall be pr	evented by avoiding accu	mulation of dust, e.g. on
	f	loors and	ledges.	
6. ACCIDENTAL RELEASE I	MEASURES			
Personal precautions:	l	Jse perso	nal protective equipment	See Section 8. Remove
	ä	all sources	of ignition. Avoid dust fo	rmation. Avoid contact
	١	with skin a	and eyes. Sweep up to pre	event slipping hazard.
Environmental precaution	ns: l	Do not flu	sh into surface water or sa	anitary sewer system. Do
	ı	not allow	material to contaminate g	round water system.
Methods for cleaning up:	S	Shovel inte	o suitable container for di	sposal.
7. HANDLING AND STORA	AGE			
Safe handling advice:	,	Avoid cont	tact with skin and eyes. W	orkers should be
	I	protected	from the possibility of co	ntact with molten
	I	material d	uring fabrication. Low ha	ard for usual industrial

- 4 -

or commercial handling. Use personal protective



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PLA K6FR	02		03/08/2021	KS011
		equipmen	t.	
Storage conditions:		Store in co	ol place.	
		No special	restrictions on storage	with other products.
8. EXPOSURE CONTROLS	/ PERSONAL P	ROTECTION	I	
Exposure limits:		Not establ	ished.	
Eye/face protection:		Wear safe	ty glasses for general pu	irpose.
Hand protection:		Wear glov	es (product handled in r	nolten state).
Skin and body protection	:	Wear prot	ective 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
		equipmen	t.	
Hygiene measures:		Avoid cont	act with skin, eyes, and	clothing.
9. PHYSICAL AND CHEMIC	CAL PROPERTIE	ES		
Appearance:		Clear, tran	slucent, opaque, filame	nt. Solid at room
		temperatu	ire.	
Color:		Clear, Trar	islucent, Opaque.	
Odour:		None.		
pH:		Not applic	able.	
Vapor pressure:		Not deterr	nined.	
Evaporation rate:		Notdetern	nined.	
Density:		1.03-1.10g	/cm3	
Boilingpoint/range:		Not applic	able. Decomposition te	mperature: 280 °C (536F).
		Melting po	oint/range:155 – 185 °C	



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Water solubility:		Insoluble.			
Solubility in other solven	ts:	Noneknov	vn.		
10. STABILITY AND REACT	ΓΙνιτγ				
Reactivity:		No danger	ous reaction known unde	er conditions of normal	
		use.			
Chemical stability:		Stable.			
Conditions to avoid:		Avoid tem	peratures above 300 °C. I	Exposure to elevated	
		temperatu	ires can cause product to	decompose.	
Incompatibility:		None known.			
Hazardous decomposition products:		Decomposition products depend upon temperature, air			
		products s	supply and the presence o	f other materials.	
		Processing	g mayrelease fumes and o	ther decomposition	
		products.	At temperatures exceedir	ng melt temperatures,	
		polymer fi	ragments can be released	. Fumes can be irritating.	
11. TOXICOLOGICAL INFO	RMATION				
Acute Toxicity					
Ingestion:		Very low t	oxicity if swallowed. Harn	nful effects not	
		anticipate	d from swallowing small a	mounts. May cause	
		choking if	swallowed.		
Inhalation:		No advers	e effects are anticipated f	rom single exposure to	
		dust. Vapo	ours released during therr	nal processing may cause	
		respirator	y irritation. The LC50 has	not been determined.	
Eye damage/eye irritation	n:	Solid or du	ust may cause irritation or	corneal injury due to	

- 6 -



According to Regulation (EC) No.1907/2006

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		mechanica	al action. Elevated temper	atures may generate
		vapour lev	els sufficient to cause eye	irritation. Effects may
		include dis	scomfort and redness.	
Skin corrosion/irritation:		Prolonged	contact is essentially non	irritating to skin.
		Mechanica	al injury only. Under norm	al processing conditions,
		material is heated to elevated temperatures; contact with		
		the mater	ial may cause thermal bur	ns.
12. ECOLOGICAL INFORM	IATION			
Toxicity:		Not expec	ted to be acutely toxic, bu	t material in pellet or
		bead form may mechanically cause adverse effects if		
		ingested b	y waterfowl or aquatic life	2.
Persistence and Degrada	bility:	This water-insoluble polymeric solid is expected to be inert		
		in the envi	ironment. Surface photo c	legradation is expected
		with expo	sure to sunlight. No appre	ciable bio degradation is
		expected.		
Mobility:		No data av	vailable	

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



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PLA K6FR	02	03/08/2021	KS011
ADN/ADNR:	Not regulated		
IATA-DGR:	Not regula	ated	

15. REGULATORY INFORMATION

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.

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.