烟台	烟台龙彩新材料有限公司			Yantai Longcai Advanced Materials Co.,Ltd				
C.	R		File Title: Material Safety Data sheet					
	ngCeste	er	File code: LC-F	RD20200802	5			
ΜΑΤΕ	RIAL S	AFETY D	ATA SHEE	т				
Print date: 2020.08.26								
1.IDENTIFICATION								
PRODUCT DETAILS								
PRODUCT NAME: P5016S								
TRADE NAME: P5016S								
PRODUCT USE: POLYESTER RESIN								
MANUFACTURER: Yantai Longcai Ad	dvanced Mat	erials Co., Ltd						
ADDRESS: 18 Hangzhou Rd, Haiyan	g Developme	ent Zone, Haiyar	ng 265100, P.R.China	a				
TELEPHONE NUMBER: +86 (0535)	306828							
FAX NUMBER: +86 (0535) 330663	9							
2.HAAARDS IDENTIFICATION:								
Hazard classification: Not classified	d							
GHS label element, including preca	autionary sta	tements						
Signal word: No signal word.	•							
Hazard statements: No known sigr	nificant effect	ts or critical haz	ards.					
Precautionary statements:								
Prevention: Not applicable.								
Response: Not applicable.								
Storage: Not applicable.								
Disposal: Not applicable.								
Other hazards which do not result	: in classificat	tion: fine dust o	clouds may form ex	plosive mixtur	res with air. Hand-			
ing and/or processing of this mat	erial may ge	enerate a dust	which can cause m	echanical irrit	ation of the eyes,			
skin, nose and throat.								
3 .COMPOSITION/INFORMATION ON INGREDIENTS								
Substance/mixture: Mixture								
Other means of identification: Not	available.							
CAS number/other identifiers								
CAS number: 25135-73-3								
EC number: Mixture.								
Product code: P9590								
Ingredient name	Common na	ame	CAS number	%				
phosphonium bromide and	Ethyltriphe	nylphosphoniu	m 1530-32-1	<1				
mixtures which contain 25% or	bromide							
more								
4.FIRST AID MEASURES								
EYES:In case of contact, or suspe	cted contact	t, immediately	flush eyes with p	plenty of wat	er for at least 15			
minutes and get medical attention	immediately	after flushing.						
SKIN: In case of contact, immediate	ely flush skin	with plenty of s	oap and water for a	at least 15				
minutes. If irritation persists, get m	edical attent	ion. Remove co	ntaminated clothing	g and shoes.				

Wash clothing before reuse. Thoroughly clean contaminated shoes.

**INGESTION:** If swallowed, get medical attention immediately. Do not induce vomiting.

**INHALATION:** If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

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NOTE TO PHYSICIANS: No data is available.

#### **5.FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: use dry chemical powder.

**UNSUITABLE EXTINGUISHING MEDIA:** Avoid high pressure media which could cause the formation of a protentially explosible dust-air mixture.

**SPECIFIC HAZARDS ARISING FORM THE CHEMICAL:** May form explosible dust-air mixture if dispersed.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: No specific data.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure mode.

**SPECIAL PRECAUTIONS FOR FIRE-FIGHTERS**: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without risk. Use water spray to keep fire-exposed containers cool.

**REMARK**: Fine dust clouds may form explosive mixtures with air.

#### **6.ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel form entering. Do not touch or walk though spilt material. Shut off all ignition sources. No flares, smoking or flame in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

**ENVIRONMENTAL PRECAUTIONS**: Avoid dispersal of spilt material and runoff and contact with soil, waterway, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

#### METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

**SMALL SPILL:** Move containers from spill area. Use sprak-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

**LARGE SPILL:** Move containers from spill area. Use sprak-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers,water courses, basements or confined area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

#### **7.HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:** Put on appropriate personal protective equipment. Avoid breathing dust. Avid the creation of dust when handling and avid all possible sources of ignition, Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

**CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES**: Store in accordance with local regulations. Store in segregated and approved area. Store in a dry , cool and well-ventilated area, away from incompatible material, Eliminate all ignition sources. Separate from oxidizing material. Keep container tightly closed and sealed until

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ready for use. Container that have been opened must be carefully resealed and kept uoright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store in original container, protected from direct sunlight.

#### **8.EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **CONTROL PARAMETERS**

#### **OCCUPATIONAL EXPOSURE LIMITS**

Ingredient name	Exposure limits
Not available	

**APPROPRIATE ENGINEERING CONTROLS:** Use only with adequate ventilation. If user operations generate dust,fumes,gas,vapour or mist,use process enclosures,local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas,vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**ENVIRONMENT EXPOSURE CONTROLS**: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers ,fillers or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### PERSONAL PROTECTIVE EQUIPMENT:



**RESPIRATORY PROTECTION**: Required for dusts and fume conditions.



**SKIN PROTECTION**: Use neoprene or other nonporous gloves. Neoprene or plastic apron and protective clothing covering exposed skin areas.



**EYE PROTECTION**: Avoid contact with eyes. Wear goggles if there is a likelihood of Contact with eyes. Eyewash stations and safety showers should be readily available in handling

areas. Use safety eyewear with perforated side shields.

HYGIENIC PRACTICES: Wash hands thoroughly before eating and using washroom.

Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

9.PHYSICAL AND CHEMICAL PROPERTIES

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COLOR: Transparent

ODOR: Odorless
MELTING: Not available

BOILING: Not available

FIRE POINT: Not available

SPECIFIC GRAVITY: 1.20g/cm<sup>3</sup>

**SOLID CONTENT**: 100.0 %

### **10.STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** The product is stable.

CONDITIONS TO AVOID: Avoid the creation of dust when handling and avoid all possible sources of ignition.

**INCOMPATIBILITY:** Reactive or incompatible with the following materials: Oxidizing materials..

HAZARDOUS POLYMERIZATION: Will not occur

**11.TOXICOLOGICAL INFORMATION** 

INFORMATION ON LIKELY ROUTES FO EXPOSURE: Not available.

### POTENTIAL ACUTE HEALTH EFFECTS:

**INHALATION**: exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

**INGESTION**: No known significant effects or critical hazards.

SKIN CONTACT: No known significant effects or critical hazards.

**EYE CONTACT**: exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eye.

# OVER-EXPOSURE SIGNS/SYMPTOMS:

INHALATION: Adverse symptoms may include the follow: respiratory tract irritation, coughing.

**INGESTION**: No specific data.

SKIN CONTACT: No specific data.

**EYE CONTACT**: Adverse symptoms may include the follow: irritation, redness.

# HEALTH HAZARDS

# ACUTE TOXICITY:

Product/	Result	Species	Dose	Exposure
ingredient name				
phosphonium	LD50 dermal	Rate	>2000mg/kg	-
bromide and				
mixtures which	LD50 Oral	Rate	200mg/kg	-
contain 25% or	LD50 Oral	Rate	300 to 500	-
more			mg/kg	

# IRRITATION/CORROSION

Product/	Result	Species	Score	Exposure	Observation
ingredient					
name					
phosphoni-	Skin-primary	Rabbit	2.16	-	-
um bromide	dermal irritation				
and mixtures	index				

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-					-		-		-			
more												
SENSITISATION												
Product/ Route of exposure Species Result												
ingredient name												
Not available												
Mutagenicity						1						
Product/ingredient	ngredient Test Experiment Result											
name												
Not available												
Not available												
Reproductive toxicity	-					1						
Product/ingredient n	ame	Mate	rnal	Fert	ility	Devel-	Speci	es	Dose			Ехро-
		toxici	ty			opmen-						ро-
						tal toxin	_					sure
Not available												
Teratogenicity												
Not available.												
Specific target organ to	oxicity(si	ngle e	expos	sure)								
Not available.				,								
Specific target organ to	oxicity(si	ngle e	expos	sure)								
Not available.												
Aspiration hazard Not available.												
Potential chronic healt	h offort	-										
Chronic toxicity	n enects	5										
Product/ingredient n		Res			S.	pecies	Dose				Exposure	
Froducty ingredient in	anne	Res	un			at-Male,	Duse				LAPOSULE	
Ethyltriphenyl phosp	noni-	Sub	-acut	te loae		emale					-	
um bromide and mix			alatio			at	2	47mg/l	/a		6 hours/d	av:5davs
which contain 25% or				d mists		ac	J	-7116/1	\$		per week	ay,Judys
	more		-chro		,							
			LOra								-	
			- 0.0									
General : Repeated	or prolo	nged	inha	lation	of dust	t mav lead	to chro	nic resp	irator	v irri	itation	
Carcinogenicity	•	-				ects or crit		•		,		
Mutagenicity						ects or crit						
Teratogenicity				-		ects or crit						
Developmental effects				-		ects or crit						
Fertility effects						ects or criti						
-												
ATE value												

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Ro	oute		R	esult					1
	Oral			66666.7mg/kg					
									]
12.	ECOLOGICAL INFORMATION								
Α.	Ecotoxicity								
	Product/ingredient name	Result	Result Species Exposure						
						-			
	Ethyltriphenyl phospho-	Acute LC50 24	l.625mg	g/l Fresh wate	er	Daphnia		48 hours	
	nium bromide and mix-	Acute CL50>3	9.54mg	4mg/l Fresh water		Fish-Danio rerio		96 hours	
	tures which contain								
	25%or more								
В.	Persistence and degradabilit	y							]
		-							
	Product/ingredient name	Test		Result		Dose	I	noculum	-
	Not available								
Г	Product/ingredient name		Aquati	c half-life	Pho	otolysis	Biodo	gradability	]
-	Ethyltriphenyl phosphonium	bromide	-		-	1019313	Diode	gradability	
	and mixtures which contain						Not re	eadily	
							-		
с.	Bioaccumulative potential								J
	Product/ingredient name		Logpow		BCF Pot		tential		
	Ethyltriphenyl phosphoniu	n bromide and			-				
	mixtures which contain 259	%or more	-0.446		lov		N		
			-			-			
<b>D</b>	Mobility in soil								
<i>D</i> .	-	ot available							
	Coefficient(K <sub>oc</sub> )								
Ε.									
13.DISPOSAL CONSIDERATIONS									
Α.	A. Disposal methods : The generation of waste should be avoided or minimised wherever possible. Dispos-								
	al of this product, solutions and any by-products should at all times comply with								
	the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable								
						-	-	is and non-recycla Ild not be dispose	
	-			-				ements of all aut	
				-	•		-	ncineration or lan	
		ould only be co			-		•		
B. C	Disposal precautions :This	s material and i	its conta	ainer must be	disp	osed of in a	a safe w	/ay. Empty contai	ners
	or	or liners may retain some product residues. Avoid dispersal of spilt material and				persal			

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runoff and contact with soil, waterways, drains and sewers.						
14.TRANSPORT INFORMATION						
	UN	IMDG	LATA			
A. UN number	Not regulated.	Not regulated.	Not regulated.			
B. UN proper shipping name	-	-	-			
C. Transport hazard class(es)	-	-	-			
D. Packing group	-	-	-			
E. Environmental hazards	No.	No.	No.			
F. Additional information	-	-	-			
Special precautions for user:	Fransport within user is	premises: always trans	port in closed containers that			
ā	are upright and secure.	Ensure that persons tra	ansporting the product know			
	what to do in the event	of an accident or spillage.				
15.REGULATORY INFORMATION						
A. Regulation according to ISHA						
ISHA article 37(Harmful	: None of the com	ponents are listed.				
substances prohibited						
from manufacture)						
ISHA article 38 (Harmful	: None of the com	ponents are listed.				
substances requiring						
permission)						
Article 2 of Youth	: Not applicable.					
Protection Act on						
Substances Hazardous						
to Youth						
Exposure Limits of Chemical S	ubstances and Physical	Factors				
None of the components are li	sted.					
ISHA Enforcement Regs	ISHA Enforcement Regs : None of the components are listed.					
Annex 11-3 (Exposure						
standards established						
for harmful factors)						
ISHA Enforcement Regs	: None of the c	components are listed.				
Annex 11-4 (Harmful						
factors subject to Work						
Environment						
-	Measurement)					
-	ISHA Enforcement Regs : None of the components are listed.					
-						
-						
	. Na 6 11	oomoonoonte eus Peterd				
	: None of the	components are listed.				
ISHA Enforcement Regs Annex 12-2 (Harmful Factors Subject to Special Health Check-up) Standard of Industrial Safety and Health Annex 12 (Hazardous		components are listed.				

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	substances subject to control)						
В.	Regulation according to Chemicals Cor	ntrol Act					
	K-Reach Article 20 (Toxic chemicals)	: Not applicable					
	K-Reach Article 27(Prohibited)	:None of the components are listed.					
	K-Reach Article 27(Restricted)	:None of the components are listed.					
	CSCA Article 11 (TRI)	:None of the components are listed.					
	Korea inventory	:Not determined.					
	CSCA Article 39(Accident Precaution	: None of the components are listed.					
	Chemicals)						
C.	Dangerous Materials	: Not available.					
	Safety Management Act						
D.	Wastes regulation	: Dispose of contents and container in accordance with all loca					
		international regulations.					
D.	Regulation according to other foreigr	n laws					
	International regulations						
	Chemical Weapon Convention List Sch	nedules I. II & I Chemicals					
	Not listed.						
	Montreal Protocol (Annexes A.B. C. E						
	Not listed.						
	Stockholm Convention on Persistent (	Organic Pollutants					
	Not listed.						
	Rotterdam Convention on Prior Inform Consent (PIC)						
	Not listed.						
	UNECE Aarhus Protocol on POPs and	Heavy Metals					
	Not listed.						

16.0THER INFORMATION	
A. References	:Not available.
B. Date of issue/Date of	: 08/26/2020
revision	
C. Version	:1
Date of printing	:08/26/2020
D. Other	
Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration F actor
	GHS = Globally Harmonized System of Classification and Labelling of
	Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution
	From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = ma-
	rine pollution)

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**UN = United Nations** 

Notice to reader

To the best of our knowledge, the information contained herein is accurate .However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

The information contained in the Safety Data Sheet is based on our data available on the date of publication. The information is intended to aid the user in controlling the handing risks, it is not to be construed as a warranty or specification of the product quality .The information may not be or may not altogether be applicable to combinations of the product with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data are suitable and sufficient for the products intended purpose. In case of any unclarity we advise consulting the supplier or an expert.