烟台	龙彩新材料有限公司	Yantai Longcai Advanced Materials Co.,Ltd						
C.	Ø	File Title: Material	Safety Data sh	eet				
	ongCester®	File code: LC-RD202005022						
MATERIAL SAFETY DATA SHEET Print date: 2020.05.21								
1.IDENTIFICATION								
PRODUCT DETAILS								
PRODUCT NAME: P9510								
TRADE NAME: P9510								
PRODUCT USE: POLYESTER RESIN	I							
MANUFACTURER: Yantai Longcai A	dvanced Materials Co., Ltd							
ADDRESS: 18 Hangzhou Rd, Haiyan	ig Development Zone, Haiy	ang 265100, P.R.China	a					
TELEPHONE NUMBER: +86 (0535)	3306828							
FAX NUMBER: +86 (0535) 330663	9							
2.HAAARDS IDENTIFICATION:								
Hazard classification: Not classifie	d							
GHS label element, including preca	-							
Signal word: No signal word.								
Hazard statements: No known sigr	nificant effects or critical h	nazards.						
Precautionary statements:								
Prevention: Not applicable.								
Response: Not applicable.								
Storage: Not applicable.								
Disposal: Not applicable.								
Other hazards which do not result	t in classification: fine due	st clouds may form ex	plosive mixtur	es with air. Hand-				
ing and/or processing of this mat	terial may generate a due	st 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	t available.							
CAS number/other identifiers								
CAS number: 25135-73-3								
EC number: Mixture.								
Product code: P9588			T	- I				
Ingredient name	Common name	CAS number	%					
phosphonium bromide and	Ethyltriphenylphosphon	ium 1530-32-1	<1					
mixtures which contain 25% or	bromide							
more	more							
4.FIRST AID MEASURES								
EYES: In case of contact, or suspe			elenty of wat	er for at least 15				
minutes and get medical attention								
<b>SKIN:</b> In case of contact, immediately flush skin with plenty of soap and water for at least 15								
minutes. If irritation persists, get medical attention. Remove contaminated clothing 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: Tra	nsparent
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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/ ingredient name	Result	Species	Score	Exposure	Observation
phosphoni-	Skin-primary	Rabbit	2.16	-	-
um bromide	dermal irritation				
and mixtures	index				

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	Eyes-se	vere	irri-	Rab	bit	-		-	-			
tain 25% or	tant											
more												
SENSITISATION												
Product/ Route of exposure Species Result												
ingredient name												
Not available												
Mutagenicity												
Product/ingredi	ent	Test					Experim	ent			Result	
name												
Not available												
Not available												
Reproductive tox	icity											
Product/ingredi	ient nan	ne	Mate	rnal	Fert	ility	Devel-	Specie	s Do	ose		Ехро-
			toxici	ty			opmen-					ро-
							tal toxin					sure
Not available												
Teratogenicity												
Not available.												
Specific target or	gan toxi	icity(s	ingle e	expos	sure)							
Not available.												
Specific target or	gan toxi	icity(s	ingle e	expos	sure)							
Not available.												
Aspiration hazard	k											
Not available.												
Potential chronic	health	effect	S									
Chronic toxicity												
Product/ingredi	ent nan	ne	Res	ult			pecies	Dose			Exposure	
						R	at-Male,				-	
Ethyltriphenyl p	•		Sub	-acut	e loae	EC Fe	emale					
um bromide and			Inha	alatio	n	R	at	34	7mg/kg		6 hours/d	ay;5days
which contain 2	5% or n	nore			d mists	5					per week	
				-chro								
			LOE	L Ora	I						-	
-	eated or	-	-				t may lead		-	tory	irritation	
Carcinogenicity							ects or crit					
Mutagenicity					-		ects or crit					
Teratogenicity	<i></i>				-		ects or crit					
Developmental e	rfects				-		ects or crit					
Fertility effects		: N	o knov	wn si	gnifica	nt effe	ects or crit	cal hazaro	as.			
ATE value												

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De	ute								<b>-</b>
-				esult					_
Or	al	00	6666.7mg/kg						
12	ECOLOGICAL INFORMATION								
А.	Ecotoxicity Product/ingredient name	Pocult				Spacias		Expectine	٦
	Product/Ingredient name	Result	Result Species Exposure					_	
	Ethyltriphenyl phospho-	Acuto ICEO 24	Acute LC50 24.625mg/l Fresh water Daphnia 48 hours						
	nium bromide and mix-	Acute CL50>3	-			Fish-Danio	o rerio	96 hours	
	tures which contain		0.						
	25%or more								
В.	Persistence and degradabilit	y							
									7
	Product/ingredient name	Test		Result		Dose	Ir	noculum	_
	Not available								
	Product/ingredient name		Δαμρτί	c half-life	Pho	tolysis	Biode	gradability	٦
-	Ethyltriphenyl phosphonium	bromide	-	c nan-ine	-	1013313	Diode	gradability	-
	and mixtures which contain					Not readily		adily	
								-	
с.	Bioaccumulative potential								
	Product/ingredient name			Logpow	E	BCF	Pot	tential	7
	Ethyltriphenyl phosphoniur	n bromide and		01	-				
	mixtures which contain 259	%or more	-0.446		low		v		
			-		-				
D.	Mobility in soil								
	· ·	ot available							
Е.	Coefficient(K <sub>oc</sub> ) . Other adverse effects :: No known significant effects or critical hazards.								
	DISPOSAL CONSIDERATIONS	.NO KIOWII S	agninea		intrea	111111111111111111111111111111111111111			
A.		generation of v	waste sł	ould be avoi	ded o	r minimise	d where	ever possible. Dis	snos-
	•	-						Il times comply	•
		-		-				posal legislation	
	an	y regional loca	l autho	rity requirem	ents.	Dispose of	f surplu	s and non-recyc	lable
	pr	oducts via a lic	ensed w	aste disposal	conti	ractor. Was	te shou	ld not be dispos	ed of
				-	-		-	ements of all au	
		-			-	·	-	cineration or la	ndfill
		ould only be co material and i		-	-			av Empty conta	inora
D. L					-			ay. Empty conta of spilt material	

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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: T	ransport within user is	premises: always trans	port in closed containers that			
	•		ansporting the product know			
		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	. Not applicable.					
Substances Hazardous						
to Youth						
Exposure Limits of Chemical Su	bstances and Physical	Factors				
None of the components are lis	ted.					
ISHA Enforcement Regs	: None of the con	nponents are listed.				
Annex 11-3 (Exposure						
standards established						
for harmful factors)						
ISHA Enforcement Regs	: None of the c	omponents are listed.				
Annex 11-4 (Harmful						
factors subject to Work						
Environment						
Measurement)						
ISHA Enforcement Regs	: None of the c	omponents are listed.				
Annex 12-2 (Harmful						
Factors Subject to						
Special Health Check-up)						
Standard of Industrial	: None of the	components are listed.				
Safety and Health Annex						
12 (Hazardous						

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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					
	<b>Chemical Weapon Convention List Sch</b>	hedules 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.OTHER INFORM	ATION
A. References	:Not available.
B. Date of issue/D	ate of : 05/21/2020
revision	
C. Version	:1
Date of printin	g :05/21/2020
D. Other	
Key to abbreviatio	ns : 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.