

Certificate Of Product Safety

Dear Sirs:

We hereby certify that the following resin produced by Shenzhen Hengchangtai Technology Co., Ltd. listed below:

Biodegradation Polyethylene (BPE) : JJ1100、JJ1200、JJ1300、JJ1400

biodegradation Polypropylene (BPP) : JJ2100、JJ2200、JJ2300、JJ2400

符合不添加以下化学品的要求 (<1,000ppm)

Conforms to the requirement that no chemicals as following are added (<1,000 ppm).

The SVHC List of 1st (released by ECHA on 28 Oct. 2008)

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	Anthracene	120-12-7	9	Bis 2-ethyl(hexyl)phthalate (DEHP)	117-81-7
2	4,4'-Diaminodiphenylmethane	101-77-9	10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 134237-51-7 134237-50-6 134237-52-8
3	Dibutyl phthalate	84-74-2	11	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
4	Cobalt dichloride	7646-79-9	12	Bis(tributyltin) oxide	56-35-9
5	Diarsenic pentaoxide	1303-28-2	13	Lead hydrogen arsenate	7784-40-9
6	Diarsenic trioxide	1327-53-3	14	Triethyl arsenate	15606-95-8
7	Sodium dichromate	7789-12-0 10588-01-9	15	Benzyl butyl phthalate	85-68-7
8	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2			

The SVHC List of 2nd (released by ECHA on 13 Jan. 2010), list increases from 15 to 28

REACH SVHC	CAS Number	REACH SVHC	CAS Number
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1	Anthracene oil	90640-80-5	8	2,4-Dinitrotoluene	121-14-2
2	Anthracene oil, anthracene paste, distn. lights	91995-17-4	9	Diisobutyl phthalate	84-69-5
3	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	10	Lead chromate	7758-97-6
4	Anthracene oil, anthracene-low	90640-82-7	11	Lead chromate molybdate sulphate red (C.I. Pigment Red 04)	12656-85-8
5	Anthracene oil, anthracene paste	90640-81-6	12	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
6	Coal tar pitch, high temperature	65996-93-2	13	Tris(2-chloroethyl)phosphate	115-96-8
7	Acrylamide	79-06-1			

The SVHC List of 3rd (released by ECHA on 18 Jun.2010), list increases from 28 to 36

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	Trichloroethylene	79-01-6	5	Sodium chromate	7775-11-3
2	Boric acid	10043-35-3; 11113-50-14	6	Potassium chromate	7789-00-6
3	Disodium tetraborate, anhydrous	1330-43-4; 12179-04-3; 1303-96-4	7	Ammonium dichromate	7789-09-5
4	Tetraboron disodium heptaoxide, hydrate	12267-73-1	8	Potassium dichromate	7778-50-9

The SVHC List of 4th (released by ECHA on 15 Dec.2010), list increases from 36 to 44

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	Cobalt sulfate	10124-43-3	5	2-Methoxyethanol	109-86-4
2	Cobalt dinitrate	10141-05-6	6	2-Ethoxyethanol	110-80-5
3	Cobalt carbonate	513-79-1	7	Chromium trioxide	1333-82-0
4	Cobalt diacetate	71-48-7	8	Chromic acid; Dichromic acid	7738-94-5; 13530-68-2

The SVHC List of 5th (released by ECHA on 20 Jun.2011), list increases from 44 to 51

REACH SVHC	CAS Number	REACH SVHC	CAS Number
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1	2-ethoxyethyl acetate	111-15-9		5	1-methyl-2-pyrrolidone	872-50-4
2	strontium chromate	7789-06-2		6	1,2,3-trichloropropane	96-18-4
3	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4		7	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6
4	Hydrazine	7803-57-8; 302-01-2				

The SVHC List of 6th (released by ECHA on 19 Dec.2011), list increases from 51 to 71

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	Dichromium tris(chromate)	24613-89-6	11	2-Methoxyaniline; o-Anisidine	90-04-0
2	Potassium hydroxyoctaoxodizincatedi-chromate	11103-86-9	12	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9
3	Pentazinc chromate octahydroxide	49663-84-5	13	1,2-Dichloroethane	107-06-2
4	Bis(2-methoxyethyl) ether	111-96-6	14	Trilead diarsenate	3687-31-8
5	Arsenic acid	7778-39-4	15	N, N- dimethylacetamide (DMAC)	127-19-5
6	Calcium arsenate	7778-44-1	16	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
7	Aluminosilicate Refractory Ceramic Fibres (RCF)*1	--	17	Phenolphthalein	77-09-8
8	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)*2	--	18	Lead azide Lead diazide	13424-46-9
9	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	19	Lead styphnate	15245-44-0
10	Bis(2-methoxyethyl) phthalate	117-82-8	20	Lead dipicrate	6477-64-1

The SVHC List of 7th (released by ECHA on 18 June. 2012), list increases from 71 to 84

REACH SVHC	CAS Number	REACH SVHC	CAS Number
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1	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2		8	Formamide	75-12-7
2	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4		9	Lead(II) bis(methanesulfonate)	17570-76-2
3	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1		10	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
4	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8		11	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9
5	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9		12	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0
6	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5		13	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6
7	Diboron trioxide	1303-86-2				

The Candidate SVHC List of 8th (released by ECHA on 3 Sep . 2012), list increases from 84 to 138

REACH SVHC		CAS Number		REACH SVHC	CAS Number	
1	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5		28	Dioxobis(stearato) trilead	12578-12-0
2	4-Nonylphenol, branched and linear-substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	--		29	Lead dinitrate	10099-74-8
3	Diazene-1,2-dicarboxamide(C, C'-azodi(formamide))	123-77-3		30	Tetralead trioxide sulphate	12202-17-4
4	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers homologues and	--		31	Lead oxide(lead monoxide)	1317-36-8
5	Henicosaflluoroundecanoic acid	2058-94-8		32	Diethyl sulphate	64-67-5
6	Pentacosaflluorotridecanoic acid	72629-94-8		33	Lead cyanidate	20837-86-9
7	Acetic acid, lead salt, basic	51404-69-4		34	Silicic acid, barium salt, lead-doped	68784-75-8

8	Dimethyl sulphate	77-78-1		35	Trilead dioxide phosphonate	12141-20-7
9	Furan	110-00-9		36	o-Toluidine; 2-Aminotoluene	95-53-4
10	Pyrochlore, antimony lead yellow	8012-00-8		37	o- aminoazotoluene	97-56-3
11	Tetraethyllead	78-00-2		38	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3
12	[Phthalato(2-)]dioxotrilead	69011-06-9		39	6-methoxy-m-toluidine(p-cresidine)	120-71-8
13	Cyclohexane- 1,2-dicarboxylic anhydride	85-42-7		40	Dibutyltin dichloride(DBT)	683- 18- 1
14	Hexahydromethylphthalic anhydride, Hexahydro- 4 - methylphthalic anhydride, Hexahydro- 1 - methylphthalic anhydride, Hexahydro- 3 - methylphthalic anhydride	25550-51-0, 19438-60-9, 48122- 14- 1, 57110-29-9,		41	Lead Titanium Zirconium Oxide	12626-81-2
15	Heptacosafuorotetradecanoic acid	376-06-7		42	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9
16	Diisopentylphthalate	605-50-5		43	1 -bromopropane	106-94-5
17	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0		44	Basic lead carbonate(trileadbis(carbonate) dihydroxide)	1319-46-6
18	N- pentyl- isopentylphthalate	776297-69-9		45	Fatty acids, C16- 18, lead salts	91031-62-8
19	Methoxy acetic acid	625-45-6		46	Lead tetroxide(orange lead)	1314-41-6
20	Tricosafuorododecanoic acid	307-55-1		47	Sulfurous acid, lead salt, dibasic	62229-08-7
21	1,2-Diethoxyethane	629- 14- 1		48	4,4'-oxydianiline and its salts	101-80-4
22	3-ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	143860-04-2		49	Lead oxide sulphate	12036-76-9
23	4-methyl-m-phenylenediamine(2,4-toluenediamine)	95-80-7		50	Lead bis(tetrafluoroborate)	13814-96-6
24	N- methylacetamide	79- 16-3		51	Lead titanium trioxide	12060-00-3
25	Pentaleadtetraoxidesulphate	12065-90-6		52	4,4' methylenedi-o-toluidine	838-88-0
26	Biphenyl-4-ylamine	92-67-1		53	Silicic acid, lead salt	11120-22-2
27	Dinoseb	88-85-7		54	N, N- dimethylformamide; dimethyl formamide	68- 12-2

The SVHC List of 9th (released by ECHA on 20 June 2013), list increases from 138 to 144

REACH SVHC	CAS Number	REACH SVHC	CAS Number
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1	Cadmium	7440-43-9		4	Dipentyl phthalate (DPP)	131-18-0
2	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1		5	4-Nonylphenol, branched and linear, ethoxylated	--
3	Pentadecafluorooctanoic acid (PFOA)	335-67-1		6	Cadmium oxide	1306-19-0

The SVHC List of 10th (released by ECHA on 16 Dec 2013), list increases from 144 to 151

REACH SVHC		CAS Number		REACH SVHC	CAS Number	
1	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0		5	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7
2	Dihexyl phthalate	84-75-3		6	Lead di(acetate)	301-04-2
3	Cadmium sulphide	1306-23-6		7	Trixylyl phosphate	25155-23-1
4	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7				

The SVHC List of 11th (released by ECHA on 16 June 2014), list increases from 151 to 155

REACH SVHC		CAS Number		REACH SVHC	CAS Number	
1	Cadmium chloride	10108-64-2		3	Sodium peroxometaborate	7632-04-4
2	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4		4	Sodium perborate; perboric acid, sodium salt	--

The SVHC List of 12th (released by ECHA on 17 Dec. 2014), list increases from 155 to 161

REACH SVHC		CAS Number		REACH SVHC	CAS Number
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1	Cadmium fluoride	7790-79-6		4	Cadmium sulphate	10124-36-4; 31119-53-6
2	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7		5	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
3	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1		6	reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	--

The SVHC List of 13th (released by ECHA on 15 June 2015), list increases from 161 to 163

REACH SVHC		CAS Number		REACH SVHC		CAS Number
1	1,2-benzenedicarboxylic acid, di-C6- 10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1		2	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	--

The SVHC List of 14th (released by ECHA on 17 Dec. 2015), list increases from 163 to 168

REACH SVHC		CAS Number		REACH SVHC		CAS Number
1	1,3-propanesultone	1120-71-4		4	Nitrobenzene	98-95-3
2	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1		5	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
3	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4				

The SVHC List of 15th (released by ECHA on 20 June 2016), list increases from 168 to 169

REACH SVHC		CAS Number
1	Benzo[def]chrysene	50-32-8

The SVHC List of 16th (released by ECHA on 12 Jan. 2017), list increases from 169 to 173

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	4,4'-isopropylidenediphenol	80-05-7	3	4-Heptylphenol, branched and linear	--
2	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts Nonadecafluorodecanoic acid Ammonium nonadecafluorodecanoate Decanoic acid, nonadecafluoro-, sodium salt	335-76-2 3108-42-7 3830-45-3	4	p-(1,1-dimethylpropyl)phenol	80-46-6

The SVHC List of 17th (released by ECHA on 7 July 2017), list increases from 173 to 174

REACH SVHC		CAS Number
1	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4

The SVHC List of 18th (released by ECHA on 15 Jan. 2018), list increases from 174 to 181

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	Benz[a] anthracene	56-55-3, 1718-53-2	5	Cadmium carbonate	513-78-0
2	Cadmium hydroxide	21041-95-2	6	Cadmium nitrate	10022-68-1, 10325-94-7
3	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™)	--	7	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	--
4	Chrysene	218-01-9, 1719-03-5			

The SVHC List of 19th (released by ECHA on 27 June 2018), list increases from 181 to 191

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	Octamethylcyclotetrasiloxane (D4)	556-67-2	6	Benzo[ghi] perylene	191-24-2
2	Decamethylcyclopentasiloxane (D5)	541-02-6	7	Terphenyl hydrogenated	61788-32-7
3	Dodecamethylcyclohexasiloxane (D6)	540-97-6	8	Ethylenediamine (EDA)	107-15-3
4	Lead	7439-92-1	9	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7

5	Disodium octaborate	12008-41-2	10	Dicyclohexyl phthalate (DCHP)	84-61-7
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The SVHC List of 20 th (released by ECHA on 15 Jan. 2019), list increases from 191 to 197

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	4	Pyrene	129-00-0; 1718-52-1
2	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	5	Fluoranthene	206-44-0; 93951-69-0
3	Benzo[k]fluoranthene	207-08-9	6	Phenanthrene	85-01-8

The SVHC List of 21 th (released by ECHA on 16 Jul. 2019), list increases from 197 to 201

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	2-methoxyethyl acetate	110-49-6	3	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	
2	Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)		4	4-tert-butylphenol	98-54-4

The SVHC List of 22 th (released by ECHA on 16 Jan. 2020), list increases from 201 to 205

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	3	Diisohexyl phthalate	71850-09-4
2	2-methyl-1-(4-methylthiophenyl)-2-morpholino propan-1-one	71868-10-5	4	Perfluorobutane sulfonic acid (PFBS) and its salts	

The SVHC List of 23 th (released by ECHA on 25 June 2020), list increases from 205 to 209

REACH SVHC		CAS Number	REACH SVHC		CAS Number
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1	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	3	2 - methylimidazole	693-98-1
2	butyl 4 - hydroxybenzoate	94-26-8	4	1 - vinylimidazole	1072-63-5

The SVHC List of 24 th (released by ECHA on 19 Jan 2021), list increases from 209 to 211

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	2	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	3648-18-8 and others

The SVHC List of 25th (released by ECHA on 8 July 2021), list increases from 211 to 219

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	1,4-dioxane	123-91-1	5	4,4'-(1-methylpropylidene) bisphenol	77-40-7
2	glutaral	111-30-8	6	orthoboric acid, sodium salt	-
3	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	7	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	-
4	Medium-chain chlorinated paraffins (MCCP)	-	8	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-

The SVHC List of 26th (released by ECHA on 17 Jan 2022), list increases from 219 to 223

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	(±)- 1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers	-	3	S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or	255881-94-8

	and/or combinations thereof (4-MBC)			2-ethylhexyl) phosphorodithioate	
2	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC)	119-47-1	4	tris(2-methoxyethoxy)vinylsilane	1067-53-4

The SVHC List of 27th (released by ECHA on 10 Jun 2022), list increases from 223 to 224

REACH SVHC		CAS Number
1	N-(hydroxymethyl)acrylamide	924-42-5

The SVHC List of 28th (released by ECHA on 17 Jan 2023), list increases from 224 to 233

REACH SVHC		CAS Number	REACH SVHC		CAS Number
1	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	6	Isobutyl 4-hydroxybenzoate	4247-02-3
2	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	7	Melamine	108-78-1
3	4,4'-sulphonyldiphenol	80-09-1	8	Perfluoroheptanoic acid and its salts	-
4	Barium diboron tetraoxide	13701-59-2	9	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-
5	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-			

Sincerely Yours,
