

# Test Report

Report No. ECL03I000237010

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**Applicant** HANGZHOU YOUBANG SOLDER MATERIAL CO.,LTD

**Address** NO.317,LIANGYUN ROAD ,LINAGZHU STREET,YUHANG DISTRICT,HANGZHOU

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client**

Sample Name Lead-free Solder Wire

Part No. SnCu0.7

Color Silvery

Material metal

Sample Received Date Jan. 14, 2016

Testing Period Jan. 14, 2016 to Jan. 22, 2016

**Test Requested** As specified by client, to screen the 168 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

**Test Method** Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).

**Summary** According to the analytical results, concentrations of 168 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

Tested by Xixi Pan Reviewed by Sha Chen

Approved by Lin Zhang Date Jan. 22, 2016

Lin Zhang  
Approved Signatory



No. R138203751

7-8/F., Building A, No. 750. Chuangyuan Road, Gaoxin District, Ningbo, Zhejiang, China

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**Test Result(s)**

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
I	1	Anthracene	120-12-7	204-371-1	N.D.	0.005%
I	2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	N.D.	0.005%
I	3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.	0.005%
I	4	Cobalt dichloride*	7646-79-9	231-589-4	N.D.	0.01%
I	5	Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	0.01%
I	6	Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	0.01%
I	7	Sodium dichromate*	7789-12-0, 10588-01-9	234-190-3	N.D.	0.01%
I	8	Musk xylene	81-15-2	201-329-4	N.D.	0.005%
I	9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	N.D.	0.005%
I	10	Hexabromocyclododecane (HBCDD)	25637-99-4, 3194-55-6	247-148-4, 221-695-9	N.D.	0.005%
I	11	ShortChain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	N.D.	0.01%
I	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	N.D.	0.005%
I	13	Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	0.01%
I	14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	N.D.	0.005%
I	15	Triethyl arsenate*	15606-95-8	427-700-2	N.D.	0.01%
II	16	<sup>①</sup> Anthracene oil	90640-80-5	292-602-7	N.D.	0.05%
II	17	<sup>①</sup> Anthracene oil, anthracene paste,distn.Lights ****	91995-17-4	295-278-5	N.D.	0.05%
II	18	<sup>①</sup> Anthracene oil, anthracene paste,anthracene fraction	91995-15-2	295-275-9	N.D.	0.05%
II	19	<sup>①</sup> Anthracene oil, anthracene-low	90640-82-7	292-604-8	N.D.	0.05%
II	20	<sup>①</sup> Anthracene oil, anthracene paste	90640-81-6	292-603-2	N.D.	0.05%
II	21	<sup>①</sup> Coal tar pitch, high temperature	65996-93-2	266-028-2	N.D.	0.05%
II	22	Acrylamide	79-06-1	201-173-7	N.D.	0.01%
II	23	2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.	0.01%
II	24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	N.D.	0.005%
II	25	<sup>②</sup> Lead chromate	7758-97-6	231-846-0	N.D.	0.05%
II	26	<sup>②</sup> Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	N.D.	0.05%
II	27	<sup>②</sup> Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	N.D.	0.05%
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	N.D.	0.01%
III	29	Trichloroethylene	79-01-6	201-167-4	N.D.	0.005%

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
III	30	<sup>®</sup> Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	0.01%
III	31	<sup>®</sup> Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	N.D.	0.01%
III	32	<sup>®</sup> Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	N.D.	0.01%
III	33	Sodium chromate*	7775-11-3	231-889-5	N.D.	0.01%
III	34	Potassium chromate*	7789-00-6	232-140-5	N.D.	0.01%
III	35	Ammonium dichromate*	7789-09-5	232-143-1	N.D.	0.01%
III	36	Potassium dichromate*	7778-50-9	231-906-6	N.D.	0.01%
IV	37	Cobalt( II ) sulphate*	10124-43-3	233-334-2	N.D.	0.01%
IV	38	Cobalt( II ) dinitrate*	10141-05-6	233-402-1	N.D.	0.01%
IV	39	Cobalt( II ) carbonate*	513-79-1	208-169-4	N.D.	0.01%
IV	40	Cobalt( II ) diacetate*	71-48-7	200-755-8	N.D.	0.01%
IV	41	2-Methoxyethanol	109-86-4	203-713-7	N.D.	0.005%
IV	42	2-Ethoxyethanol	110-80-5	203-804-1	N.D.	0.005%
IV	43	Chromium trioxide*	1333-82-0	215-607-8	N.D.	0.01%
IV	44	<sup>①</sup> Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	N.D.	0.01%
V	45	2-ethoxyethyl acetate	111-15-9	203-839-2	N.D.	0.01%
V	46	Strontium chromate*	7789-06-2	232-142-6	N.D.	0.01%
V	47	<sup>①</sup> 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	N.D.	0.01%
V	48	Hydrazine	7803-57-8 302-01-2	206-114-9	N.D.	0.01%
V	49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	N.D.	0.01%
V	50	1,2,3-trichloropropane	96-18-4	202-486-1	N.D.	0.01%
V	51	<sup>①</sup> 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	N.D.	0.01%
VI	52	Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.	0.01%
VI	53	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	234-329-8	N.D.	0.01%

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
VI	54	Pentazine chromate octahydroxide*	49663-84-5	256-418-0	N.D.	0.01%
VI	55	<sup>®</sup> Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	N.D.	0.05%
VI	56	<sup>®</sup> Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	N.D.	0.05%
VI	57	<sup>①</sup> Formaldehyde, oligomeric reaction products with aniline (technical MDA) <sup>▲</sup>	25214-70-4	500-036-1	N.D.	0.01%
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	N.D.	0.005%
VI	59	2-Methoxyaniline(o-Anisidine)	90-04-0	201-963-1	N.D.	0.005%
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	140-66-9	205-426-2	N.D.	0.005%
VI	61	1,2-Dichloroethane	107-06-2	203-458-1	N.D.	0.005%
VI	62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	N.D.	0.005%
VI	63	Arsenic acid*	7778-39-4	231-901-9	N.D.	0.01%
VI	64	Calcium arsenate*	7778-44-1	231-904-5	N.D.	0.01%
VI	65	Trilead diarsenate*	3687-31-8	222-979-5	N.D.	0.01%
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	N.D.	0.005%
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	N.D.	0.005%
VI	68	Phenolphthalein	77-9-8	201-004-7	N.D.	0.005%
VI	69	Lead diazide*	13424-46-9	236-542-1	N.D.	0.01%
VI	70	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	N.D.	0.01%
VI	71	Lead dipicrate*	6477-64-1	229-335-2	N.D.	0.01%
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	N.D.	0.01%
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	N.D.	0.01%
VII	74	<sup>®</sup> Diboron trioxide	1303-86-2	215-125-8	N.D.	0.01%
VII	75	Formamide	75-12-7	200-842-0	N.D.	0.01%
VII	76	Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	N.D.	0.01%
VII	77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	N.D.	0.01%
VII	78	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	423-400-0	N.D.	0.01%



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Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
VII	79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	N.D.	0.01%
VII	80	N,N,N',N'-tetramethyl-4,4'-methylene dianiline (Michler's base)	101-61-1	202-959-2	N.D.	0.01%
VII	81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)***	548-62-9	208-953-6	N.D.	0.01%
VII	82	[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	219-943-6	N.D.	0.01%
VII	83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	N.D.	0.01%
VII	84	4,4'-bis(dimethylamino)-4'-(methylamino)trityl alcohol	561-41-1	209-218-2	N.D.	0.01%
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	N.D.	0.05%
VIII	86	<sup>①</sup> 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]	-	-	N.D.	0.05%
VIII	87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	N.D.	0.05%
VIII	88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	N.D.	0.05%
VIII	89	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	N.D.	0.05%
VIII	90	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	N.D.	0.05%

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
VIII	91	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	N.D.	0.05%
VIII	92	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	247-094-1, 243-072-0, 256-356-4, 260-566-1	N.D.	0.05%
VIII	93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	N.D.	0.05%
VIII	94	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	N.D.	0.005%
VIII	95	<sup>Ⓢ</sup> 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	N.D.	0.01%
VIII	96	N-pentyl-isopentylphthalate	776297-69-9	-	N.D.	0.005%
VIII	97	Methoxyacetic acid	625-45-6	210-894-6	N.D.	0.05%
VIII	98	Tricosafuorododecanoic acid	307-55-1	206-203-2	N.D.	0.05%
VIII	99	1,2-Diethoxyethane	629-14-1	211-076-1	N.D.	0.05%
VIII	100	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	N.D.	0.05%
VIII	101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	N.D.	0.05%
VIII	102	N-methylacetamide	79-16-3	201-182-6	N.D.	0.05%
VIII	103	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	0.01%
VIII	104	Biphenyl-4-ylamine	92-67-1	202-177-1	N.D.	0.05%
VIII	105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	N.D.	0.05%
VIII	106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.	0.01%
VIII	107	Lead dinitrate*	10099-74-8	233-245-9	N.D.	0.01%
VIII	108	Tetrolead trioxide sulphate*	12202-17-4	235-380-9	N.D.	0.01%
VIII	109	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	N.D.	0.01%
VIII	110	Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	0.01%

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
VIII	111	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	N.D.	0.05%
VIII	112	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.	0.01%
VIII	113	Dimethyl sulphate	77-78-1	201-058-1	N.D.	0.05%
VIII	114	Furan	110-00-9	203-727-3	N.D.	0.05%
VIII	115	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	0.01%
VIII	116	Tetraethyllead*	78-00-2	201-075-4	N.D.	0.01%
VIII	117	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.	0.01%
VIII	118	Diethyl sulphate	64-67-5	200-589-6	N.D.	0.05%
VIII	119	Lead cyanamidate*	20837-86-9	244-073-9	N.D.	0.01%
VIII	120	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	N.D.	0.01%
VIII	121	Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	0.01%
VIII	122	<i>o</i> -Toluidine	95-53-4	202-429-0	N.D.	0.05%
VIII	123	<i>o</i> -aminoazotoluene	97-56-3	202-591-2	N.D.	0.05%
VIII	124	4-aminoazobenzene	60-09-3	200-453-6	N.D.	0.05%
VIII	125	6-methoxy- <i>m</i> -toluidine ( <i>p</i> -cresidine)	120-71-8	204-419-1	N.D.	0.05%
VIII	126	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	N.D.	0.05%
VIII	127	Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	0.01%
VIII	128	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	N.D.	0.05%
VIII	129	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	N.D.	0.05%
VIII	130	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.	0.01%
VIII	131	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	N.D.	0.01%
VIII	132	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	N.D.	0.01%
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	0.01%
VIII	134	4,4'-oxydianiline and its salts	101-80-4	202-977-0	N.D.	0.05%
VIII	135	Lead oxide sulfate*	12036-76-9	234-853-7	N.D.	0.01%
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	N.D.	0.01%
VIII	137	Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.	0.01%
VIII	138	N,N-dimethylformamide	68-12-2	200-679-5	N.D.	0.05%
IX	139	Cadmium	7440-43-9	231-152-8	N.D.	0.01%
IX	140	Cadmium oxide*	1306-19-0	215-146-2	N.D.	0.01%
IX	141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	N.D.	0.005%

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IX	142	<sup>①</sup> 4-Nonylphenol, branched and linear, ethoxylated[ <i>substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof</i> ]	-	-	N.D.	0.05%
IX	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	N.D.	0.01%
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	N.D.	0.01%
X	145	<sup>①</sup> Trixylyl phosphate	25155-23-1	246-677-8	N.D.	0.01%
X	146	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	217-710-3	N.D.	0.01%
X	147	Dihexyl phthalate	84-75-3	201-559-5	N.D.	0.005%
X	148	Cadmium sulphide*	1306-23-6	215-147-8	N.D.	0.01%
X	149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)***	573-58-0	209-358-4	N.D.	0.01%
X	150	Lead di(acetate)*	301-04-2	206-104-4	N.D.	0.01%
X	151	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	N.D.	0.01%
XI	152	<sup>①</sup> 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	N.D.	0.01%
XI	153	Cadmium chloride*	10108-64-2	233-296-7	N.D.	0.01%
XI	154	<sup>③</sup> Sodium perborate; perboric acid, sodium salt*****	-	239-172-9, 234-390-0	N.D.	0.01%
XI	155	<sup>③</sup> Sodium peroxometaborate*****	7632-04-4	231-556-4	N.D.	0.01%
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	N.D.	0.01%



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XII	157	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	N.D.	0.01%
XII	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*	15571-58-1	239-622-4	N.D.	0.05%
XII	159	Cadmium fluoride*	7790-79-6	232-222-0	N.D.	0.01%
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	233-331-6	N.D.	0.01%
XII	161	<sup>①</sup> 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)*	-	-	N.D.	0.05%
XIII	162	<sup>①</sup> 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201- 559-5)	68515-51-5, 68648-93-1	271-094-0, 272-013-1	N.D.	0.05%
XIII	163	<sup>①</sup> 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]	-	-	N.D.	0.05%
XIV	164	Nitrobenzene	98-95-3	202-716-0	N.D.	0.01%
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	N.D.	0.01%
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	N.D.	0.01%
XIV	167	1,3-propanesultone	1120-71-4	214-317-9	N.D.	0.01%

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	N.D.	0.01%

**Test Method:**

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007 for sample pretreatment.  
Analyzed by ICP-OES, UV-Vis, IC, GC-MS and LC-MS-MS.

**Tested Sample/Part Description**      Silvery metal

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## Remark:

1. w/w = weight by weight; 0.1%= 1000 mg/kg =1000 ppm
2. N.D. = Not Detected (<report limit)
3. \*: Concentration value of the substance by the conversion from the test results of certain elements.  
Concentration value of Bis(tributyltin)oxide(TBTO), 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), 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)by the conversion from the test results of certain compounds(Tributyl Tins(TBT), Dioctyl Tins(DOT), Monoctyl Tins(MOT)).
4. \*\*: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
5. \*\*\*:C.I.: Colour Index
6. \*\*\*\*:Light fractions from distillation
7. \*\*\*\*\*: Concentration value of Disodiumtetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodiumtetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
8. ^:Concentration value ofFormaldehyde, oligomeric reaction products with aniline(technical MDA) by the conversion from the test results ofcertain compounds(2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,6-Diaminodiphenylmethane).
9. <sup>①</sup>: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
10. <sup>②</sup>: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
11. <sup>③</sup>: Concentration value of Boricacid; Disodiumtetraborate,anhydrous; Tetraboron disodium heptaoxide,hydrate; Diboron trioxide; Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.

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## Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
  - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
  - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
  - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
  - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures or  $\geq 0.2$  % by volume for gaseous mixtures.



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## Photo(s) of the sample(s)



\*\*\* End of Report \*\*\*

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