



Test Report

Report No. A2200017795101016

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Applicant SHENZHEN RUNLITE TECHNOLOGY CO.,LTD

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

Sample Name COB LED-Ceramic

Part No. 1515

Client Reference 2017、1512、1919、1313、2424、2828、3838、2222、2024、1616、1818
Information

Sample Received Date Jan. 17, 2020

Testing Period Jan. 17, 2020 to Jan. 21, 2020

Test Requested

1.As specified by client, to screen the 201 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).
2.As specified by client, to screen the 4 substances published on September 3rd 2019 submitted by EU Member States to ECHA for intention for identification of substance 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

1.According to the analytical results, concentrations of 201 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).
2.According to the analytical results, concentrations of 4 substances for intention for identification of SVHC are all less than 0.1%(w/w) in the submitted sample(s).

Tested by

Sunny Lin

Reviewed by

Ophelie Wan

Approved by

Hill Zheng

Date

Jan. 21, 2020

Hill Zheng

Technical Manager

No. R262621381



Centre Testing International Group Co.,Ltd.

Inspection & Testing Services

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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Test Result(s) 1

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
-	-	All tested SVHC (See the candidate list)	-	-	N.D.	-

Test Result(s) 2

Batch	No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit (%)
-	-	All tested intention for identification of SVHC (See the list of intention for identification of SVHC(Published on September 3 rd 2019))	-	-	N.D.	-

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), EN 14582:2016 for sample pretreatment.
Analyzed by ICP-OES, UV-Vis, IC, HPLC, GC-MS, GC-MS(NCI), GC-FID and LC-MS-MS.

Sample/Part Description COB LED(Tested as a whole)

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Note:

1. The table of tested result(s) only shows detected SVHC/intention for identification of SVHC, and SVHC/intention for identification of SVHC that below Report Limit are not reported. Please refer to the Candidate List of SVHC/intention for identification of SVHC on next pages.
2. w/w = weight by weight; 0.1%= 1000 mg/kg =1000 ppm
3. N.D. = Not Detected (<report limit)
4. *: Concentration value of the substance by the conversion from the test results of certain elements.
Concentration value of Bis(tributyltin)oxide(TBTO), Dibutyltin dichloride (DBTC), 2-ethylhexyl 10-ethyl-4,4-diocetyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE), Reaction mass of 2-ethylhexyl 10-ethyl-4,4-diocetyl-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), Dibutyl Tins(DBT), Dioctyl Tins(DOT), Monoocetyl Tins(MOT)).
5. **: 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).
6. ***: C.I.: Colour Index
7. ****: Light fractions from distillation
8. *****: 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.
9. ^: Concentration value of Formaldehyde, oligomeric reaction products with aniline(technical MDA) by the conversion from the test results of certain compounds(2,4-Diaminodiphenylmethane, 4,4'-Diaminodiphenylmethane, 2,2-Diaminodiphenylmethane).
10. ①: 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. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
11. ②: 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.

Remark:

The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

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Candidate List of SVHC

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
I	1	Anthracene	120-12-7	204-371-1	0.005
I	2	4,4' - Diaminodiphenylmethane	101-77-9	202-974-4	0.005
I	3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	0.005
I	4 [◇]	Cobalt dichloride*	7646-79-9	231-589-4	0.01
I	5 [◇]	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01
I	6 [◇]	Diarsenic trioxide*	1327-53-3	215-481-4	0.01
I	7 [◇]	Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	0.01
I	8	Musk xylene	81-15-2	201-329-4	0.005
I	9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	0.005
I	10	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 221-695-9	0.005
I	11	ShortChain Chlorinated Paraffins (SCCPs)	85535-84-8	287-476-5	0.01
I	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.005
I	13 [◇]	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01
I	14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	0.005
I	15 [◇]	Triethyl arsenate*	15606-95-8	427-700-2	0.01
II	16	^① Anthracene oil	90640-80-5	292-602-7	0.05
II	17	^① Anthracene oil, anthracene paste, distn. Lights ****	91995-17-4	295-278-5	0.05
II	18	^① Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05
II	19	^① Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
II	20	^① Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
II	21	^① Coal tar pitch, high temperature	65996-93-2	266-028-2	0.05
II	22	Acrylamide	79-06-1	201-173-7	0.01
II	23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01
II	24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005
II	25 [◇]	^② Lead chromate	7758-97-6	231-846-0	0.05
II	26 [◇]	^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05
II	27 [◇]	^② Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
III	29	Trichloroethylene	79-01-6	201-167-4	0.005
III	30 [◇]	Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.01
III	31 [◇]	^② Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
III	32 [◇]	^② Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	0.01
III	33 [◇]	Sodium chromate*	7775-11-3	231-889-5	0.01
III	34 [◇]	Potassium chromate*	7789-00-6	232-140-5	0.01
III	35 [◇]	Ammonium dichromate*	7789-09-5	232-143-1	0.01
III	36 [◇]	Potassium dichromate*	7778-50-9	231-906-6	0.01
IV	37 [◇]	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01
IV	38 [◇]	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
IV	39 [◇]	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01
IV	40 [◇]	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
IV	41	2-Methoxyethanol	109-86-4	203-713-7	0.005
IV	42	2-Ethoxyethanol	110-80-5	203-804-1	0.005
IV	43 [◇]	Chromium trioxide*	1333-82-0	215-607-8	0.01
IV	44 [◇]	^① 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	0.01
V	45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.01
V	46 [◇]	Strontium chromate*	7789-06-2	232-142-6	0.01
V	47	^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.01
V	48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.01
V	49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.01
V	50	1,2,3-trichloropropane	96-18-4	202-486-1	0.01
V	51	^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.01
VI	52 [◇]	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01
VI	53 [◇]	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.01
VI	54 [◇]	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VI	55 [◇]	^② Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	0.05
VI	56 [◇]	^② Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	0.05
VI	57	^① Formaldehyde, oligomeric reaction products with aniline (technical MDA) [▲]	25214-70-4	500-036-1	0.01
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005
VI	59	2-Methoxyaniline(o-Anisidine)	90-04-0	201-963-1	0.005
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	140-66-9	205-426-2	0.005
VI	61	1,2-Dichloroethane	107-06-2	203-458-1	0.005
VI	62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005
VI	63 [◇]	Arsenic acid*	7778-39-4	231-901-9	0.01
VI	64 [◇]	Calcium arsenate*	7778-44-1	231-904-5	0.01
VI	65 [◇]	Trilead diarsenate*	3687-31-8	222-979-5	0.01
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
VI	68	Phenolphthalein	77-09-8	201-004-7	0.005
VI	69 [◇]	Lead diazide*	13424-46-9	236-542-1	0.01
VI	70 [◇]	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	0.01
VI	71 [◇]	Lead dipicrate*	6477-64-1	229-335-2	0.01
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
VII	74 [◇]	Diboron trioxide*	1303-86-2	215-125-8	0.01
VII	75	Formamide	75-12-7	200-842-0	0.01
VII	76 [◇]	Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	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	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	0.01
VII	79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	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	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	0.01
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)***	6786-83-0	229-851-8	0.01
VII	84	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol	561-41-1	209-218-2	0.01
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.05
VIII	86	^① 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]	-	-	0.05
VIII	87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05
VIII	88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	-	0.05
VIII	89	Henicosfluoroundecanoic acid	2058-94-8	218-165-4	0.05
VIII	90	Pentacosfluorotridecanoic acid	72629-94-8	276-745-2	0.05

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Batch	No.	Substance Name(s)	CAS No.	EC No.	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	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	0.05
VIII	93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05
VIII	94	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	0.05
VIII	95	^① 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05
VIII	96	N-pentyl-isopentylphthalate	776297-69-9	--	0.05
VIII	97	Methoxyacetic acid	625-45-6	210-894-6	0.05
VIII	98	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05
VIII	99	1,2-Diethoxyethane	629-14-1	211-076-1	0.05
VIII	100	3-ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazolidine	143860-04-2	421-150-7	0.05
VIII	101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.05
VIII	102	N-methylacetamide	79-16-3	201-182-6	0.05
VIII	103 [◇]	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01
VIII	104	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
VIII	105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.05
VIII	106 [◇]	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01
VIII	107 [◇]	Lead dinitrate*	10099-74-8	233-245-9	0.01
VIII	108 [◇]	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01
VIII	109 [◇]	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.01
VIII	110 [◇]	Lead titanium trioxide*	12060-00-3	235-038-9	0.01
VIII	111	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
VIII	112 [◇]	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01
VIII	113	Dimethyl sulphate	77-78-1	201-058-1	0.05
VIII	114	Furan	110-00-9	203-727-3	0.05
VIII	115 [◇]	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01
VIII	116 [◇]	Tetraethyllead*	78-00-2	201-075-4	0.01
VIII	117 [◇]	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.01

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VIII	118	Diethyl sulphate	64-67-5	200-589-6	0.05
VIII	119 [◇]	Lead cyanamidate*	20837-86-9	244-073-9	0.01
VIII	120 [◇]	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.01
VIII	121 [◇]	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01
VIII	122	<i>o</i> -Toluidine	95-53-4	202-429-0	0.05
VIII	123	<i>o</i> -aminoazotoluene	97-56-3	202-591-2	0.05
VIII	124	4-aminoazobenzene	60-09-3	200-453-6	0.05
VIII	125	6-methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine)	120-71-8	204-419-1	0.05
VIII	126	Dibutyltin dichloride (DBTC)*	683-18-1	211-670-0	0.05
VIII	127 [◇]	Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.01
VIII	128	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.05
VIII	129	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.05
VIII	130 [◇]	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.01
VIII	131 [◇]	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01
VIII	132 [◇]	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.01
VIII	133 [◇]	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01
VIII	134	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
VIII	135 [◇]	Lead oxide sulfate*	12036-76-9	234-853-7	0.01
VIII	136 [◇]	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01
VIII	137 [◇]	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01
VIII	138	N,N-dimethylformamide	68-12-2	200-679-5	0.05
IX	139 [◇]	Cadmium	7440-43-9	231-152-8	0.01
IX	140 [◇]	Cadmium oxide*	1306-19-0	215-146-2	0.01
IX	141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01
IX	142	^① 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>]	-	-	0.05
IX	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01
X	145	^① Trixylyl phosphate	25155-23-1	246-677-8	0.01

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X	146	Disodium 4-amino-3- [[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phe nylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.01
X	147	Dihexyl phthalate	84-75-3	201-559-5	0.01
X	148 [◇]	Cadmium sulphide*	1306-23-6	215-147-8	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	0.01
X	150 [◇]	Lead di(acetate)*	301-04-2	206-104-4	0.01
X	151	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	0.01
XI	152	^① 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01
XI	153 [◇]	Cadmium chloride*	10108-64-2	233-296-7	0.01
XI	154 [◇]	^② Sodium perborate; perboric acid, sodium salt*****	15120-21-5 11138-47-9	239-172-9 234-390-0	0.01
XI	155 [◇]	^② Sodium peroxometaborate*****	7632-04-4	231-556-4	0.01
XII	156	2-(2H-Benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.01
XII	157	2-Benzotriazol-2-yl-4,6-di-tert- butylphenol (UV-320)	3846-71-7	223-346-6	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	0.05
XII	159 [◇]	Cadmium fluoride*	7790-79-6	232-222-0	0.01
XII	160 [◇]	Cadmium sulphate*	10124-36-4 31119-53-6	233-331-6	0.01
XII	161	^① 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)*	-	-	0.05

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XIII	162	^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	271-094-0 272-013-1	0.05
XIII	163	^① 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]	-	-	0.05
XIV	164	Nitrobenzene	98-95-3	202-716-0	0.01
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.01
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.01
XIV	167	1,3-propanesultone	1120-71-4	214-317-9	0.01
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.01
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.01
XVI	170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	201-245-8	0.01
XVI	171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	221-470-5 206-400-3 -	0.01
XVI	172	<i>p</i> -(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.01
XVI	173	^① 4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	0.05
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	-	0.0005

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	-	-	0.01
XVIII	176	Benzo[a]anthracene	56-55-3 1718-53-2	200-280-6	0.01
XVIII	177 [◇]	Cadmium nitrate*	10325-94-7 10022-68-1	233-710-6	0.01
XVIII	178 [◇]	Cadmium carbonate*	513-78-0	208-168-9	0.01
XVIII	179 [◇]	Cadmium hydroxide*	21041-95-2	244-168-5	0.01
XVIII	180	Chrysene	218-01-9 1719-03-5	205-923-4	0.01
XVIII	181	^① Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)]	-	-	0.05
XIX	182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01
XIX	183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
XIX	184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01
XIX	185 [◇]	Lead	7439-92-1	231-100-4	0.01
XIX	186 [◇]	Disodium octaborate*	12008-41-2	234-541-0	0.01
XIX	187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01
XIX	188	^① Terphenyl, hydrogenated	61788-32-7	262-967-7	0.01
XIX	189	Ethylenediamine (EDA)	107-15-3	203-468-6	0.01
XIX	190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	209-008-0	0.01
XIX	191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01
XX	192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.01
XX	193	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
XX	194	Fluoranthene	206-44-0	205-912-4	0.01
XX	195	Phenanthrene	85-01-8	201-581-5	0.01
XX	196	Pyrene	129-00-0	204-927-3	0.01
XX	197	1,7,7-trimethyl-3-(phenylmethylene) bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	0.01

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Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XXI	198	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy) propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.01
XXI	199	2-methoxyethyl acetate	110-49-6	203-772-9	0.01
XXI	200	4-tert-butylphenol	98-54-4	202-679-0	0.01
XXI	201	^① Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01

“①” indicates the tested items of 71 SVHC.

List of intention for identification of SVHC (Published on September 3rd 2019)

Batch	No.	Substance Name(s)	CAS No.	EC No.	Report Limit (%)
XXII	1	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.01
XXII	2	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.01
XXII	3	Diisohexyl phthalate	71850-09-4	276-090-2	0.01
XXII	4	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01

Test Report

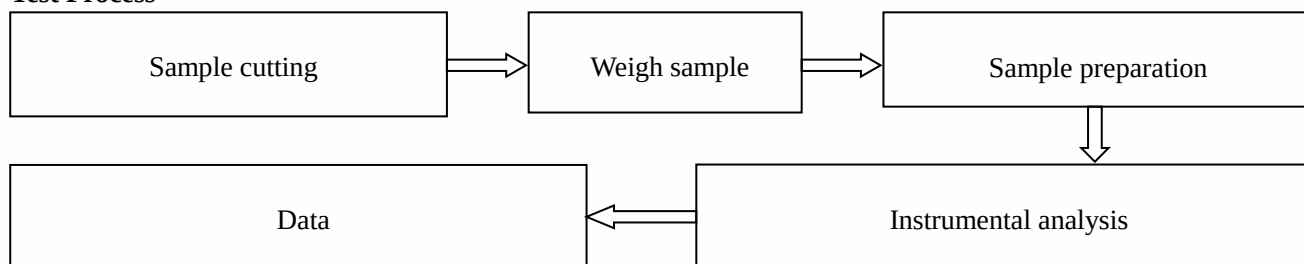
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Appendix:

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 ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

Test Process

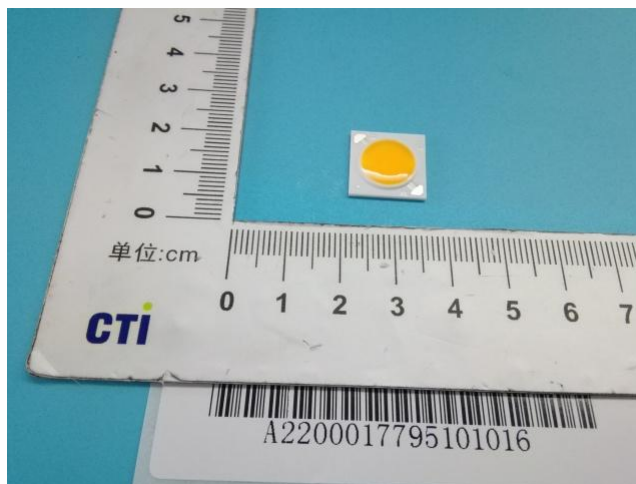


Test Report

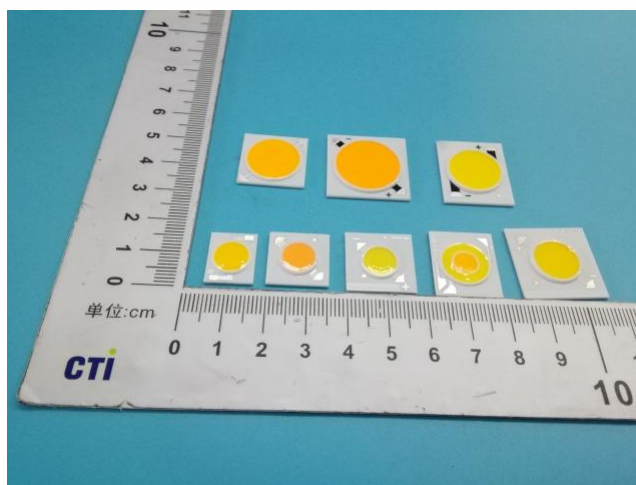
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Photo(s) of the sample(s)



Client Reference Photo(Non-tested sample)



*** End of Report ***

Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.