



# Test Report

Report No: BSTDG17111009350001RR-4

Date: Nov.11, 2017

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**Applicant** : SHENZHEN LEDWORKER LIGHTING CO. LTD  
**Address** : 5Floor, 8 Building, XinXinTian Industrial Area, XinSha Road, Shajing Town, BaoAn, Shenzhen.

The following sample(s) was /were submitted and identified on behalf of the clients as :

**Sample Name** : LED Strip  
**Trade Name** : LEDWorker  
**Sample Model** : A0001,  
A0003, A0069, A0016, A0018, A0071, A0035, A0093, A0096, A0099  
**Sample Received Date** : Nov.07, 2017  
**Testing Period** : Nov.07, 2017 To Nov.10, 2017

**Test Requested** : One hundred seventy-four (174 Substances of Very High Concern (SVHC) Based on the list Published by European Chemicals Agency (ECHA) on Oct. 28, 2008 & Jan. 13, 2010 & Mar. 30, 2010 & Jun. 18, 2010 & Dec.15, 2010 & Jun. 20, 2011 & Dec. 19, 2011 & Jun. 18, 2012 & Dec. 19, 2012 & Jun. 20, 2013 & Dec.16, 2013 & Mar. 3, 2014 & Jun. 16, 2014 & Dec. 17, 2014&Jun. 15, 2015&Dec. 17, 2015&Jun. 20, 2016&Jan. 12, 2017&Jul. 07, 2017 for public consultation, regarding regulation (EC) No 1907/2006 concerning the REACH.

**Test Method** : Please refer to next page(s).

**Test Result** : Please refer to next page(s).

Signed for and on behalf of

**Andy Zheng/ Technical Director**

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**Dongguan BST Testing Co., Ltd.**

A1201-1204Xinsanqi Of Dongbao Road, Dongcheng District, Tel:400-882-9628 Fax:86-769-23020106  
Dongguan, Guangdong, China. E-mail: christina@bst-lab.com Http://www.bst-lab.com Complaints hotline:86-755-26747756



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## Test method and Test equipment:

No.	Test Item	CAS No.	Test Method	Test Equipment
1	Anthracene	120-12-7	AFPS GS 2014:01 PAK	GC-MS
2	4,4'-Diaminodiphenylmethane	101-77-9	EN 14362-1:2012	GC-MS
3	Dibutyl phthalate (DBP)	84-74-2	EN 14372:2004	GC-MS
4	5-tert-butyl-2,4,6-trinitro-m-Xylene(musk xylene)	81-15-2	EPA 3550C:2007	GC-MS
5	Bis(2-ethyl(phthalate))(DEHP)	117-81-7	EN 14372:2004	GC-MS
6	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-51-7 , 34237-50-6, 134237-52-8)	EPA 3550C:2007	GC-MS
7	Alkanes,C10-13,chloro(Short Chain Chlorinated Paraffins)	85535-84-8	EPA 8082A:2007 /EPA 8081B:2007	GC-MS
8	Benzyl butyl phthalate (BBP)	85-68-7	EN 14372:2004	GC-MS
9	Bis(tributyltin)oxide	56-35-9	BS ISO 17353:2004	GC-MS
10	Cobalt dichloride	7646-79-9	EPA 3050B:1996 /EPA 3051A:2007 /EPA 3052:1996	ICP-OES IC-ECD
11	Diarsenic pentaoxide	1303-28-2	EPA 3050B:1996 /EPA 3051A:2007 /EPA 3052:1996	ICP-OES
12	Diarsenic trioxide	1327-53-3	EPA 3052:1996	ICP-OES
13	Triethyl arsenate	15606-95-8	EPA 3052:1996	ICP-OES
14	Lead hydrogen arsenate	7784-40-9	EPA 3050B:1996 /EPA 3051A:2007 /EPA 3052:1996	ICP-OES

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No.	Test Item	CAS No.	Test Method	Test Equipment
15	Sodium dichromate, dihydrate	10588-01-9	EPA 3050B:1996 /EPA 3051A:2007 /EPA 3052:1996 /EPA 3060A:1996	ICP-OES Uv-Vis
16	Anthracene oil	90640-80-5	AFPS GS 2014:01 PAK	GC-MS
17	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	AFPS GS 2014:01 PAK	GC-MS
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	AFPS GS 2014:01 PAK	GC-MS
19	Anthracene oil, anthracene-low	90640-82-7	AFPS GS 2014:01 PAK	GC-MS
20	Anthracene oil, anthracene paste	90640-81-6	AFPS GS 2014:01 PAK	GC-MS
21	Diisobutyl phthalate	84-69-5	EN 14372:2004	GC-MS
22	2,4-Dinitrotoluene	121-14-2	EPA 3540C:1996	GC-MS
23	coal tar pitch,high temperature	65996-93-2	AFPS GS 2014:01 PAK	GC-MS
24	tris(2-chloroethyl)phosphate	115-96-8	EPA 3540C:1996	GC-MS
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	EPA 3050B:1996 /EPA 3051A:2007 /EPA 3052:1996 /EPA 3060A:1996	ICP-OES Uv-Vis
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	EPA 3050B:1996 /EPA 3051A:2007 /EPA 3052:1996 /EPA 3060A:1996	ICP-OES Uv-Vis
27	Lead chromate	7758-97-6	EPA 3050B:1996 /EPA 3051A:2007 /EPA 3052:1996 /EPA 3060A:1996	ICP-OES Uv-Vis
28	Acrylamide	79-06-1	EPA 3550C:2007	GC-MS

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No.	Test Item	CAS No.	Test Method	Test Equipment
29	Trichloroethylene	79-01-6	EPA 3550C:2007	GC-MS
30	Boric acid	11113-50-1	EPA 3051A:2007	ICP-OES
31	Disodium tetraborate, anhydrou	12179-04-3	EPA 3051A:2007	ICP-OES
32	tetraboron disodium heptaoxide hydrate	12267-73-1	EPA 3051A:2007	ICP-OES
33	Sodium chromate	7775-11-3	EPA 3051A:2007	ICP-OES
34	Potassium chromate	7789-00-6	EPA 3051A:2007	ICP-OES
35	Ammonium dichromate	7789-09-5	EPA 3051A:2007	ICP-OES
36	Potassium dichromate	7778-50-9	EPA 3051A:2007	ICP-OES
37	Cobalt sulfate	10124-43-3	EPA 3051A:2007	ICP-OES
38	Cobalt dinitrat	10141-05-6	EPA 3051A:2007	ICP-OES
39	Cobalt carbonate	513-79-1	EPA 3051A:2007	ICP-OES
40	Cobalt diacetate	71-48-7	EPA 3051A:2007	ICP-OES
41	2-Methoxyethanol	109-86-4	EPA 3540C:1996	GC-MS
42	2-Ethoxyethanol	110-80-5	EPA 3540C:1996	GC-MS
43	Chromium trioxide	1333-82-0	EPA 3060A:1996	Uv-Vis
44	Chromic acid	7738-94-5	EPA 3060A:1996	Uv-Vis
	Dichromic acid	13530-68-2		
	Oligomers of chromicacid and dichromic acid	--		

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45	2- ethoxyethyl acetate	111-15-9	EPA 3550C:2007	GC-MS
46	strontium chromate	7789-06-2	EPA 3051A:2007	ICP-OES
47	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters	68515-42-4	EPA 3550C:2007	GC-MS
48	Hydrazine	7803-57-8 302-01-2	EPA 3540C:1996	GC-MS
49	1-Methyl-2-pyrrolidinone	872-50-4	EPA 3550C:2007	GC-MS
50	1,2,3-trichloropropane	96-18-4	EPA 3540C:1996	GC-MS
51	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters,C7-rich	71888-89-6	EPA 3550C:2007	GC-MS
52	Zirconia Aluminosilicate Refractory Ceramic Fibres	--	EPA 3051A:2007	ICP-OES
53	Calcium arsenate	7778-44-1	EPA 3051A:2007	ICP-OES
54	Bis(2-methoxyethyl) ether	111-96-6	EPA 3540C:1996	GC-MS
55	Aluminosilicate Refractory Ceramic Fibres	--	EPA 3051A:2007	ICP-OES
56	Chromate, hydroxyoctaoxodizincatedi-, potassium	11103-86-9	EPA 3051A:2007	ICP-OES
57	Lead dipicrate	6477-64-1	EPA 3051A:2007	ICP-OES
58	N,N-dimethylacetamide	127-19-5	EPA 3540C:1996	GC-MS
59	Arsenic acid	7778-39-4	EPA 3051A:2007	ICP-OES
60	2-Methoxyaniline; o-Anisidine	90-04-0	EPA 3540C:1996	GC-MS
61	Trilead diarsenate	3687-31-8	EPA 3540C:1996	GC-MS
62	1,2-dichloroethane	107-06-2	EPA 3540C:1996	GC-MS

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63	Pentazinc chromate octahydroxide	49663-84-5	EPA 3052:1996	ICP-OES
64	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	EPA 3540C:1996	GC-MS
65	Formaldehyde, oligomeric reaction products aniline	25214-70-4	EPA 3060A:1996 EPA 3540C:1996	UV-Vis GC-MS
66	Bis(2-methoxyethyl) phthalate	117-82-8	EPA 3540C:1996	GC-MS
67	Lead diazide, Lead azide	13424-46-9	EPA 3052:1996	ICP-OES
68	Lead styphnate	15245-44-0	EPA 3052:1996	ICP-OES
69	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	EPA 3540C:1996	GC-MS
70	Phenolphthalein	77-09-8	EPA 3540C:1996	GC-MS
71	Dichromium tris(chromate)	24613-89-6	EPA 3052:1996	ICP-OES
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	EPA 3540C:1996	GC-MS
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	EPA 3540C:1996	GC-MS
74	Diboron trioxide	1303-86-2	EPA 3052:1996	ICP-OES
75	Formamide	75-12-7	EPA 3540C:1996	GC-MS
76	Lead(II)bis(methanesulfonate)	17570-76-2	EPA 3052:1996	ICP-OES
77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	EPA 3540C:1996	GC-MS
78	$\beta$ -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	EPA 3540C:1996	GC-MS
79	4,4'-bis(dimethylamino) benzophenone(Michler's ketone)	90-94-8	EPA 3540C:1996	GC-MS

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No.	Test Item	CAS No.	Test Method	Test Equipment
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	EPA 3540C:1996	GC-MS
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	EPA 3540C:1996	GC-MS
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	EPA 3540C:1996	GC-MS
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	EPA 3540C:1996	GC-MS
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	EPA 3540C:1996	GC-MS
85	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	EPA 3540C:1996	GC-MS
86	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	EPA 3540C:1996	GC-MS
87	N-methylacetamide	79-16-3	EPA 3540C:1996	GC-MS
88	Pentalead tetraoxide sulphate	12065-90-6	EPA 3052:1996	ICP-OES
89	Biphenyl-4-ylamine	202-177-1	EPA 3540C:1996	GC-MS
90	Dinoseb	88-85-7	EPA 3540C:1996	GC-MS
91	Dioxobis(stearato)trilead	12578-12-0	EPA 3052:1996	ICP-OES
92	Lead dinitrate	10099-74-8	EPA 3052:1996	ICP-OES
93	Tetralead trioxide sulphate	12202-17-4	EPA 3052:1996	ICP-OES
94	Lead oxide (lead monoxide)	1317-36-8	EPA 3052:1996	ICP-OES
95	Lead titanium trioxide	12060-00-3	EPA 3052:1996	ICP-OES

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No.	Test Item	CAS No.	Test Method	Test Equipment
96	4,4'-methylenedi-o-toluidine	838-88-0	EPA 3540C:1996	GC-MS
97	Acetic acid, lead salt, basic	51404-69-4	EPA 3052:1996	ICP-OES
98	Dimethyl sulphate	77-78-1	EPA 3540C:1996	GC-MS
99	Furan	110-00-9	EPA 3540C:1996	GC-MS
100	Pyrochlore, antimony lead yellow	8012-00-8	EPA 3540C:1996	GC-MS
101	Tetraethyllead	78-00-2	EPA 3052:1996	ICP-OES
102	[Phthalato(2-)]dioxotrilead	69011-06-9	EPA 3052:1996	ICP-OES
103	Diethyl sulphate	64-67-5	EPA 3540C:1996	GC-MS
104	Lead cyanamidate	20837-86-9	EPA 3052:1996	ICP-OES
105	Silicic acid, barium salt, lead-doped	68784-75-8	EPA 3052:1996	ICP-OES
106	Trilead dioxide phosphonate	12141-20-7	EPA 3052:1996	ICP-OES
107	o-Toluidine; 2-Aminotoluene	95-53-4	EPA 3540C:1996	GC-MS
108	o-aminoazotoluene	97-56-3	EPA 3540C:1996	GC-MS
109	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-03	EPA 3540C:1996	GC-MS
110	6-methoxy-m-toluidine (p-cresidine)	120-71-8	EPA 3540C:1996	GC-MS
111	Dibutyltin dichloride (DBT)	683-18-1	EPA 3540C:1996	GC-MS
112	Lead Titanium Zirconium Oxide	12626-81-2	EPA 3052:1996	ICP-OES
113	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	EPA 3540C:1996	GC-MS

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No.	Test Item	CAS No.	Test Method	Test Equipment
114	1-bromopropane	106-94-5	EPA 3540C:1996	GC-MS
115	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	1319-46-6	EPA 3052:1996	ICP-OES
116	Fatty acids, C16-18, lead salts	91031-62-8	EPA 3052:1996	ICP-OES
117	Lead tetroxide (orange lead)	1314-41-6	EPA 3052:1996	ICP-OES
118	Sulfurous acid, lead salt, dibasic	62229-08-7	EPA 3052:1996	ICP-OES
119	4,4'-oxydianiline and its salts	101-80-4	EPA 3540C:1996	GC-MS
120	lead oxide sulphate	12036-76-9	EPA 3052:1996	ICP-OES
121	Lead bis(tetrafluoroborate)	13814-96-6	EPA 3052:1996	ICP-OES
122	Silicic acid, lead salt	11120-22-2	EPA 3052:1996	ICP-OES
123	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	EPA 3540C:1996	GC-MS
124	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	--	EPA 3540C:1996	GC-MS
125	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	EPA 3540C:1996	GC-MS
126	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	--	EPA 3540C:1996	GC-MS
127	1,2-Diethoxyethane	629-14-1	EPA 3540C:1996	GC-MS

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128	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	EPA 3540C:1996	GC-MS
129	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	EPA 3540C:1996	GC-MS
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	EPA 3540C:1996	GC-MS
131	N-pentyl-isopentylphthalate	--	EPA 3540C:1996	GC-MS
132	Heptacosafuorotetradecanoic acid	376-06-7	EPA 3540C:1996	GC-MS
133	Pentacosafuorotridecanoic acid	72629-94-8	EPA 3540C:1996	GC-MS
134	Henicosafuoroundecanoic acid	2058-94-8	EPA 3540C:1996	GC-MS
135	Tricosafuorododecanoic acid	307-55-1	EPA 3540C:1996	GC-MS
136	Methoxy acetic acid	625-45-6	EPA 3540C:1996	GC-MS
137	Diisopentylphthalate	605-50-5	EPA 3540C:1996	GC-MS
138	N,N-dimethylformamide; dimethyl formamide	68-12-2	EPA 3540C:1996	GC-MS
139	Cadmium	7440-43-9	EPA 3050B:1996	ICP-OES
140	Cadmium oxide	1306-19-0	EPA 3050B:1996	ICP-OES
141	Dipentyl phthalate (DPP)	131-18-0	EPA 3540C:1996	GC-MS
142	4-Nonylphenol, branched and linear, ethoxylated [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]	--	EPA 3540C:1996	GC-MS

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No.	Test Item	CAS No.	Test Method	Test Equipment
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	EPA 3540C:1996	GC-MS
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	EPA 3540C:1996	GC-MS
145	Cadmium Sulfide	1306-23-6	EPA 3050B:1996	ICP-OES
146	Di-N-Hexyl Phthalate	84-75-3	EPA 3540C:1996	GC-MS
147	Direct Red 28	573-58-0	EPA 3540C:1996	GC-MS
148	Direct Black 38	1937-37-7	EPA 3540C:1996	GC-MS
149	Ethlenethiourea	96-45-7	EPA 3540C:1996	GC-MS
150	Acetic Acid	301-04-2	EPA 3050B:1996	ICP-OES
151	Trixylyl Phosphate	25155-23-1	EPA 3540C:1996	GC-MS
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4.	EPA 3540C:1996	GC-MS
153	Cadmium chloride	10108-64-2.	EPA 3050B:1996	ICP-OES
154	Sodium perborate; perboric acid, sodium salt	--	EPA 3050B:1996	ICP-OES
155	Sodium peroxometaborate	7632-4-4	EPA 3050B:1996	ICP-OES
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	EPA 3540C:1996	GC-MS
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	EPA 3540C:1996	GC-MS
158	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)	--	EPA 3540C:1996	GC-MS

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No.	Test Item	CAS No.	Test Method	Test Equipment
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentyl phenol (UV-328)	25973-55-1	EPA 3540C:1996	GC-MS
160	Cadmium fluoride	7790-79-6	EPA 3050B:1996	ICP-OES
161	Cadmium sulphate	10124-36-4, 31119-53-6	EPA 3050B:1996	ICP-OES
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68515-51-5 68648-93-1	EPA 3540C:1996	GC-MS
163	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]	--	EPA 3540C:1996	GC-MS
164	1,3-propanesultone	1120-71-4	EPA 3540C:1996	GC-MS
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	3864-99-1	EPA 3540C:1996	GC-MS
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	36437-37-3	EPA 3540C:1996	GC-MS
167	Nitrobenzene	98-95-3	EPA 3540C:1996	GC-MS
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	EPA 3540C:1996	GC-MS
169	Benzo[a]pyrene	50-32-8	AFPS GS 2014:01	GC-MS

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No.	Test Item	CAS No.	Test Method	Test Equipment
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	EPA 3540C:1996	GC-MS
171	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]	--	EPA 3050B:1996	ICP-OES
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	EPA 3540C:1996	GC-MS
173	p-(1,1-dimethylpropyl)phenol	80-46-6	EPA 3540C:1996	GC-MS
174	Perfluorohexane-1-sulphonic acid and its salts	--	EPA 3540C:1996	GC-MS

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**Dongguan BST Testing Co., Ltd.**

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## Test Results:

No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
1	Anthracene	0.005	N.D.	--	PBT
2	4,4'-Diaminodiphenylmethane	0.005	N.D.	--	Carcinogen Category 2
3	Dibutyl phthalate (DBP)	0.005	N.D.	--	Toxic for reproduction Category 2
4	5-tert-butyl-2,4,6-trinitro-m-Xylene(musk xylene)	0.005	N.D.	--	vPvB
5	Bis(2-ethyl(phthalate) (DEHP)	0.005	N.D.	--	Toxic for reproduction Category 2
6	Hexabromocyclododecane(HB CDD)	0.005	N.D.	--	PBT
7	Alkanes,C10-13,chloro(Short Chain Chlorinated Paraffins)	0.01	N.D.	--	PBT
8	Benzyl butyl phthalate (BBP)	0.005	N.D.	--	Toxic for reproduction Category 2
9	Bis(tributyltin)oxide(TBTO)*	0.005	N.D.	--	PBT
10	Cobalt dichloride**	0.005	N.D.	N.D.	Carcinogen category 2
11	Diarsenic pentaoxide**	0.005	N.D.	N.D.	Carcinogen category 1
12	Diarsenic trioxide**	0.005	N.D.	N.D.	Carcinogen category 1
13	Triethyl arsenate**	0.005	N.D.	N.D.	Carcinogen category 1
14	Lead hydrogen arsenate**	0.005	N.D.	N.D.	Carcinogen category 1; Toxic for reproduction Category 1
15	Sodium dichromate**	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2; Mutagen Category 2

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
16	Anthracene oil	0.005	N.D.	--	PBT
17	Anthracene oil, anthracene paste, distn. Lights	0.005	N.D.	--	PBT
18	Anthracene oil, anthracene paste, anthracene fraction	0.005	N.D.	--	PBT
19	Anthracene oil,anthracene-low	0.005	N.D.	--	PBT
20	Anthracene oil, anthracene paste	0.050	N.D.	--	PBT
21	Diisobutyl phthalate	0.005	N.D.	--	Toxic for reproduction Category 2
22	2,4-Dinitrotoluene	0.005	N.D.	--	Carcinogen category 2
23	coal tar pitch, high temperature	0.050	N.D.	--	PBT; Carcinogen category 2
24	tris(2-chloroethyl)phosphate	0.005	N.D.	--	Carcinogen category 2; Toxic for reproduction Category 1
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 1
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 1
27	Lead chromate	0.005	N.D.	N.D.	Carcinogen category 1; Toxic for reproduction Category 1
28	Acrylamide	0.005	N.D.	--	Carcinogen category 2; Mutagen category 2
29	Trichloroethylene	0.005	N.D.	--	Carcinogen category 2
30	Boric acid	0.005	N.D.	N.D.	Toxic for reproduction category 2
31	Disodium tetraborate, anhydrou	0.005	N.D.	N.D.	Toxic for reproduction category 2
32	tetraboron disodium heptaoxide hydrate	0.005	N.D.	N.D.	Toxic for reproduction category 2

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
33	Sodium chromate	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2; Mutagen Category 2
34	Potassium chromate	0.005	N.D.	N.D.	Carcinogen category 2; Mutagen Category 2
35	Ammonium dichromate	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2; Mutagen Category 2
36	Potassium dichromate	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2; Mutagen Category 2
37	Cobalt sulfate	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2
38	Cobalt dinitrat	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2
39	Cobalt carbonate	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2
40	Cobalt diacetate	0.005	N.D.	N.D.	Carcinogen category 2; Toxic for reproduction Category 2
41	2-Methoxyethanol	0.005	N.D.	--	Toxic for reproduction Category 2
42	2-Ethoxyethanol	0.005	N.D.	--	Toxic for reproduction Category 2
43	Chromium trioxide	0.005	N.D.	N.D.	Carcinogen category 2; Mutagen Category 2
44	Chromic acid	0.005	N.D.	N.D.	Carcinogen category 2
	Dichromic acid				
	Oligomers of chromic acid and dichromic acid				
45	2-ethoxyethyl acetate	0.005	N.D.	--	Toxic for reproduction Category 2
46	Strontium chromate	0.005	N.D.	N.D.	Carcinogen category 2

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
47	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters	0.005	N.D.	--	Toxic for reproduction Category 2
48	Hydrazine	0.005	N.D.	--	Carcinogen category 2
49	1-Methyl-2-pyrrolidinone	0.005	N.D.	--	Toxic for reproduction Category 2
50	1,2,3-trichloropropane	0.005	N.D.	--	Carcinogen category 2; Toxic for reproduction Category 2
51	1,2-Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters, C7-rich	0.005	N.D.	--	Toxic for reproduction Category 2;
52	Zirconia Aluminosilicate Refractory Ceramic Fibres	0.005	N.D.	N.D.	Carcinogen category 2
53	Calcium arsenate	0.005	N.D.	N.D.	Carcinogen category 2
54	Bis(2-methoxyethyl) ether	0.005	N.D.	--	Toxic for reproduction Category 2
55	Aluminosilicate Refractory Ceramic Fibres	0.005	N.D.	N.D.	Carcinogen category 2
56	Potassium hydroxyoctaoxidizincatedichromate	0.005	N.D.	N.D.	Carcinogen category 2
57	Lead dipicrate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
58	N,N-dimethylacetamide	0.005	N.D.	--	Toxic for reproduction Category 2
59	Arsenic acid	0.005	N.D.	N.D.	Carcinogen category 2
60	2-Methoxyaniline; o-Anisidine	0.005	N.D.	--	Carcinogen category 2
61	Trilead diarsenate	0.005	N.D.	--	Carcinogen category 2; Toxic for reproduction Category 2

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
62	1,2-dichloroethane	0.005	N.D.	--	Carcinogen category 2
63	Pentazine chromate octahydroxide	0.005	N.D.	N.D.	Carcinogen category 2
64	4-(1,1,3,3-tetramethylbutyl)phenol	0.005	N.D.	--	Carcinogen category 2; Toxic for reproduction Category 2
65	Formaldehyde, oligomeric reaction products with aniline	0.005	N.D.	--	Carcinogen category 2
66	Bis(2-methoxyethyl) phthalate	0.005	N.D.	--	Toxic for reproduction Category 2
67	Lead diazide, Lead azide	0.005	N.D.	N.D.	Toxic for reproduction Category 2
68	Lead styphnate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
69	2,2'-dichloro-4,4'-methylenedianiline	0.005	N.D.	--	Carcinogen category 2
70	Phenolphthalein	0.005	N.D.	--	Carcinogen category 2
71	Dichromium tris(chromate)	0.005	N.D.	N.D.	Carcinogen category 2
72	1,2-bis(2-methoxyethoxy) Ethane (TEGDME; triglyme)	0.005	N.D.	--	Toxic for reproduction Category 2
73	1,2-dimethoxyethane; ethyleneglycol dimethyl ether (EGDME)	0.005	N.D.	--	Toxic for reproduction Category 2
74	Diboron trioxide	0.005	N.D.	N.D.	Toxic for reproduction Category 2
75	Formamide	0.005	N.D.	--	Toxic for reproduction Category 2
76	Lead(II)bis(methanesulfonate)	0.005	N.D.	N.D.	Toxic for reproduction Category 2
77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	0.005	N.D.	--	Mutagenic category 2

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
78	$\beta$ -TGIC(1,3,5-tris [(2S and2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	0.005	N.D.	--	Mutagenic category 2
79	4,4'-bis(dimethylamino) Benzophenone (Michler's ketone)	0.005	N.D.	--	Carcinogen category 2
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	0.005	N.D.	--	Carcinogen category 2
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	0.005	N.D.	--	Carcinogen category 2
82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	0.005	N.D.	--	Carcinogen category 2
83	$\alpha,\alpha$ -Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	0.005	N.D.	--	Carcinogen category 2
84	4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol	0.005	N.D.	--	Carcinogen category 2
85	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	0.005	N.D.	--	Toxic for reproduction Category 2
86	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	0.005	N.D.	--	Carcinogen category 2
87	N-methylacetamide	0.005	N.D.	--	Toxic for reproduction Category 2
88	Pentalead tetraoxide sulphate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
89	Biphenyl-4-ylamine	0.005	N.D.	--	Carcinogen category 2
90	Dinoseb	0.005	N.D.	--	Toxic for reproduction Category 2

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
91	Dioxobis(stearato)trilead	0.005	N.D.	N.D.	Toxic for reproduction Category 2
92	Lead dinitrate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
93	Tetralead trioxide sulphate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
94	Lead oxide (lead monoxide)	0.005	N.D.	N.D.	Toxic for reproduction Category 2
95	Lead titanium trioxide	0.005	N.D.	N.D.	Toxic for reproduction Category 2
96	4,4'-methylenedi-o-toluidine	0.005	N.D.	--	Carcinogen category 2
97	Acetic acid, lead salt, basic	0.005	N.D.	N.D.	Toxic for reproduction Category 2
98	Dimethyl sulphate	0.005	N.D.	--	Carcinogen category 2
99	Furan	0.005	N.D.	--	Carcinogen category 2
100	Pyrochlore, antimony lead yellow	0.005	N.D.	--	Toxic for reproduction Category 2
101	Tetraethyllead	0.005	N.D.	N.D.	Toxic for reproduction Category 2
102	[Phthalato(2-)]dioxotrilead	0.005	N.D.	N.D.	Toxic for reproduction Category 2
103	Diethyl sulphate	0.005	N.D.	--	Carcinogen category 2
104	Lead cyanamidate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
105	Silicic acid, barium salt, lead-doped	0.005	N.D.	N.D.	Toxic for reproduction Category 2
106	Trilead dioxide phosphonate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
107	o-Toluidine; 2-Aminotoluene	0.005	N.D.	--	Carcinogen category 2

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
108	o-aminoazotoluene	0.005	N.D.	--	Carcinogen category 2
109	4-Aminoazobenzene; 4-Phenylazoaniline	0.005	N.D.	--	Carcinogen category 2
110	6-methoxy-m-toluidine (p-cresidine)	0.005	N.D.	--	Carcinogen category 2
111	Dibutyltin dichloride (DBT)	0.005	N.D.	--	Toxic for reproduction Category 2
112	Lead Titanium Zirconium Oxide	0.005	N.D.	N.D.	Toxic for reproduction Category 2
113	Propylene oxide; 1,2-epoxypropane; methyloxirane	0.005	N.D.	--	Carcinogen category 2
114	1-bromopropane	0.005	N.D.	--	Toxic for reproduction Category 2
115	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	0.005	N.D.	N.D.	Toxic for reproduction Category 2
116	Fatty acids, C16-18, lead salts	0.005	N.D.	N.D.	Toxic for reproduction Category 2
117	Lead tetroxide (orange lead)	0.005	N.D.	N.D.	Toxic for reproduction Category 2
118	Sulfurous acid, lead salt, dibasic	0.005	N.D.	N.D.	Toxic for reproduction Category 2
119	4,4'-oxydianiline and its salts	0.005	N.D.	--	Carcinogen category 2
120	lead oxide sulphate	0.005	N.D.	N.D.	Toxic for reproduction Category 2
121	Lead bis(tetrafluoroborate)	0.005	N.D.	N.D.	Toxic for reproduction Category 2
122	Silicic acid, lead salt	0.005	N.D.	N.D.	Toxic for reproduction Category 2
123	Bis(pentabromophenyl) ether (DecaBDE)	0.005	N.D.	--	PBT

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
124	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	0.005	N.D.	--	Equivalent level of concern - probable serious effects on the environment
125	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	0.005	N.D.	--	Equivalent level of concern - probable serious effects on the environment
126	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	0.005	N.D.	--	Equivalent level of concern - probable serious effects on the environment
127	1,2-Diethoxyethane	0.005	N.D.	--	Toxic for reproduction Category 2
128	Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	0.005	N.D.	--	Equivalent level of concern - probable serious effects on the environment
129	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	0.005	N.D.	--	Equivalent level of concern - probable serious effects on the environment
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	0.005	N.D.	--	Toxic for reproduction Category 2
131	N-pentyl-isopentylphthalate	0.005	N.D.	--	Toxic for reproduction Category 2
132	Heptacosafuorotetradecanoic acid	0.005	N.D.	--	vPvB

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
133	Pentacosafuorotridecanoic acid	0.005	N.D.	--	vPvB
134	Henicosafuoroundecanoic acid	0.005	N.D.	--	vPvB
135	Tricosafuorododecanoic acid	0.005	N.D.	--	vPvB
136	Methoxy acetic acid	0.005	N.D.	--	Toxic for reproduction Category 2
137	Diisopentylphthalate	0.005	N.D.	--	Toxic for reproduction Category 2
138	N,N-dimethylformamide; dimethyl formamide	0.005	N.D.	--	Toxic for reproduction Category 2
139	Cadmium	0.001	N.D.	N.D.	Carcinogen category 2
140	Cadmium oxide	0.001	N.D.	N.D.	Carcinogen category 2
141	Dipentyl phthalate (DPP)	0.005	N.D.	--	Toxic for reproduction Category 2
142	4-Nonylphenol, branched and linear, ethoxylated [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]	0.005	N.D.	--	Equivalent level of concern - probable serious effects on the environment

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
143	Ammonium pentadecafluorooctanoate (APFO)	0.005	N.D.	--	Toxic for reproduction Category 2
144	Pentadecafluorooctanoic acid (PFOA)	0.005	N.D.	--	Toxic for reproduction Category 2
145	Cadmium Sulfide	0.001	N.D.	N.D.	Carcinogenic
146	Di-N-Hexyl Phthalate	0.005	N.D.	--	Carcinogenic
147	Direct Red 28	0.005	N.D.	--	Carcinogenic
148	Direct Black 38	0.005	N.D.	--	Toxic for reproduction
149	Ethlenethiourea	0.005	N.D.	--	Toxic for reproduction
150	Acetic Acid	0.001	N.D.	N.D.	Toxic for reproduction
151	Trixylyl Phosphate	0.005	N.D.	--	Toxic for reproduction
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	0.005	N.D.	--	Toxic for reproduction
153	Cadmium chloride	0.005	N.D.	N.D.	Toxic for reproduction
154	Sodium perborate; perboric acid, sodium salt	0.005	N.D.	N.D.	Toxic for reproduction
155	Sodium peroxometaborate	0.005	N.D.	N.D.	Toxic for reproduction
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	0.005	N.D.	--	PBT, vPvB
157	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	0.005	N.D.	--	Toxic for reproduction

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
158	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-ethylhexyloxy)-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannate tradecanoate (reaction mass of DOTE and MOTE)	0.005	N.D.	--	Toxic for reproduction
159	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol (UV-328)	0.005	N.D.	--	PBT, vPvB
160	Cadmium fluoride	0.005	N.D.	N.D.	Carcinogenic, Mutagenic
161	Cadmium sulphate	0.005	N.D.	N.D.	Carcinogenic, Mutagenic
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	0.005	N.D.	N.D.	Toxic for reproduction
163	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]	0.005	N.D.	N.D.	vPvB
164	1,3-propanesultone	0.005	N.D.	--	Carcinogenic, Mutagenic
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	0.005	N.D.	--	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	0.005	N.D.	--	vPvB
167	Nitrobenzene	0.005	N.D.	--	Toxic for reproduction
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts	0.005	N.D.	--	Toxic for reproduction

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No.	Test Item	MDL (%)	Result (%)		Classification
			A	B	
169	Benzo[a]pyrene	0.005	N.D.	--	vPvB
170	4,4'-isopropylidenediphenol (bisphenol A)	0.005	N.D.	--	Toxic for reproduction
171	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]	0.005	N.D.	--	Equivalent level of concern having probable serious effects to the environment
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	0.005	N.D.	--	Toxic for reproduction ; PBT
173	p-(1,1-dimethylpropyl)phenol	0.005	N.D.	--	Equivalent level of concern having probable serious effects to the environment
174	Perfluorohexane-1-sulphonic acid and its salts	0.005	N.D.	--	vPvB

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## Note:

1. A= Nonmetal; B=Metal;
2. “\*”=Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tributyltin, TBT results. The result is screening testing of TBTO and other salts under current technology.
3. “\*\*”= Calculated concentration of cobalt dichloride is based on the identified heavy metal and anion result. Calculated concentration of diarrheic pent oxide, diarrheic trioxide, sodium dichromate, dehydrate, Lead hydrogen arsenates and tritely arsenate are based on the identified heavy metal result.
4. Definition of classification of this report in accordance 67/548/EEC and Regulation (EC) No.1907/2006
5. N.D.= Not Detected(<MDL)
6. MDL = Method Detection Limit
7. -- = No Testing

## Remarks:

1. In accordance Regulation (EC) No. 1907/2006, any producer or importer of articles shall notify ECHA, In accordance paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance Article 59 (1) of the Regulation, namely (a) the substance is present in those article in quantities totaling over one ton per producer per year; and (b) the substance is present in those articles higher than 0.1% weight by weight (w/w).
2. Article 33 of Regulation (EC) No.1907/2006 requires supplier of an article containing a substance meets the criteria in Article 57 and identified in accordance Article 59(1) in a concentration higher than 0.1% weight by weight (w/w) shall provide the recipient of the article sufficient information, available to the supplier, to allow safe use the article including, as a minimum, the name of that.

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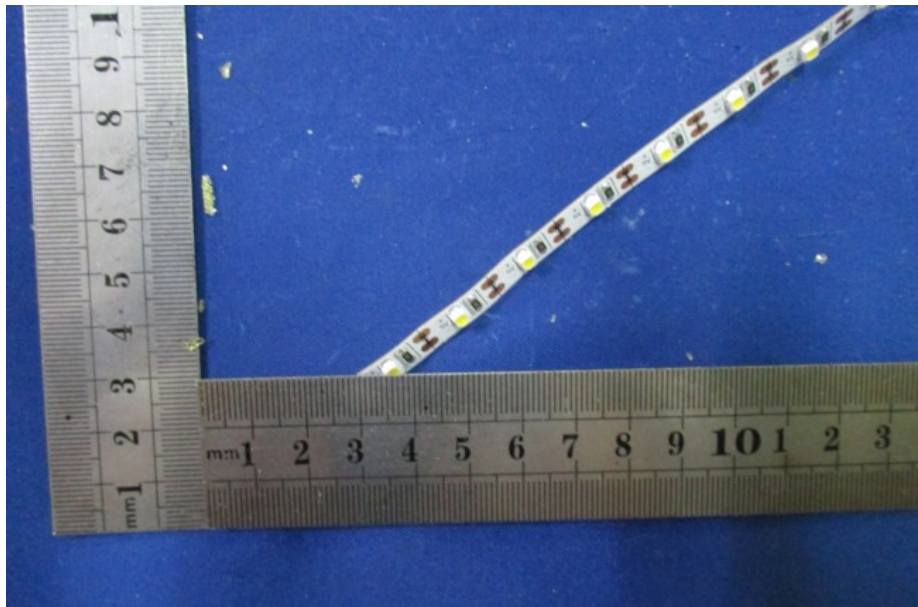
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## Sample Photo:



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

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**Dongguan BST Testing Co., Ltd.**

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