



Guangzhou LCS Compliance Testing Laboratory Ltd.

Add: No. 44-1, Qianfeng North Road, Shiji Village, Shiji Town, Panyu District, Guangzhou, Guangdong, China

Tel: (86) 020-39166689

Fax: (86) 020-39166619

Internet: [Http://www.LCS-cert.com](http://www.LCS-cert.com)

Report No.: LCS180528003CR

TEST REPORT

Client company : Shenzhen HBC Electronic Technology Co., LTD

Client address : Room #802-02, Block B, Building 2, Tianan Digital City, Long Gang District, Shenzhen, China

Manufacturer : Shenzhen HBC Electronic Technology Co., LTD

Address : Room #802-02, Block B, Building 2, Tianan Digital City, Long Gang District, Shenzhen, China

Report on the submitted samples said to be:

Sample Name : LED Multi-function flashlight

Trade Mark : HBC

Style/ Item No. : F1

Sample Receiving Date : May 28, 2018

Testing Period : May 28, 2018 ~ June 01, 2018

Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

A As specified by client, to screen the 181 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

CONCLUSION

Pass

Signed for and on behalf of LCS

Written By:

Lindan Ning

Linda Ning

Checked by:

Suez Su

Suez Su

Approved by:



Hart Qiu



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No.	Items	CAS No.	EC No.	MDL(%)	Total(%)
1	Anthracene (ANT)	120-12-7	204-371-1	0.005	N.D.
2	4,4'-Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
3	Dibutyl Phthalate (DBP)	84-74-2	201-557-4	0.005	N.D.
4	Cobalt Dichloride (CoCl ₂)*	7646-79-9	231-589-4	0.005	N.D.
5	Diarsenic Pentaoxide (As ₂ O ₅)*	1303-28-2	215-116-9	0.005	N.D.
6	Diarsenic Trioxide(As ₂ O ₃)*	1327-53-3	215-481-4	0.005	N.D.
7	Sodium Dichromate, Dihydrate*	7789-12-0, 10588-01-9	234-190-3	0.005	N.D.
8	5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene)	81-15-2	201-329-4	0.005	N.D.
9	Bis-(2-ethyl(hexyl) Phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
10	Hexabromocyclododecane (HBCDD)	25637-99-4 & 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4 221-695-9	0.005	N.D.
11	Alkanes, C10-13, chloro(Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.005	N.D.
12	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	0.005	N.D.
13	Lead Hydrogen Arsenate*	7784-40-9	232-064-2	0.005	N.D.
14	Benzyl Butyl Phthalate (BBP)	85-68-7	201-622-7	0.005	N.D.
15	Triethyl Arsenate*	15606-95-8	427-700-2	0.005	N.D.
16	Anthracene oil***	90640-80-5	292-602-7	0.005	N.D.
17	Anthracene oil , anthracene paste, distn . Lights***	91995-17-4	295-278-5	0.005	N.D.
18	Anthracene oil, anthracene paste, anthracene fraction***	91995-15-2	295-275-9	0.005	N.D.
19	Anthracene oil, anthracene-low***	90640-82-7	292-604-8	0.005	N.D.
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.005	N.D.
21	Diisobutyl phthalate	84-69-5	201-553-2	0.005	N.D.
22	2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	N.D.
23	coal tar pitch, high temperature***	65996-93-2	266-028-2	0.005	N.D.
24	tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.005	N.D.
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7	0.005	N.D.



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26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	235-759-9	0.005	N.D.
27	lead chromate	7758-97-6	231-846-0	0.005	N.D.
28	Acrylamide	79-06-1	201-173-7	0.005	N.D.
29	Trichloroethylene	79-01-6	201-167-4	0.005	N.D.
30	Boric acid *	10043-35-3; 11113-50-1	233-139-2; 234-343-4	0.005	N.D.
31	Disodium tetraborate, anhydrous	1330-43-4; 12179-04-3; 1303-96-4	215-540-4	0.005	N.D.
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	0.005	N.D.
33	Sodium chromate *	7775-11-3	231-889-5	0.005	N.D.
34	Potassium chromate*	7789-00-6	232-140-5	0.005	N.D.
35	Ammonium dichromate	7789-09-5	232-143-1	0.005	N.D.
36	Potassium dichromate	7778-50-9	231-906-6	0.005	N.D.
37	Cobalt(II) sulphate *	10124-43-3	233-334-2	0.005	N.D.
38	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.005	N.D.
39	Cobalt(II) carbonate*	513-79-1	208-169-4	0.005	N.D.
40	Cobalt(II) diacetate*	71-48-7	200-755-8	0.005	N.D.
41	2-Methoxyethanol	109-86-4	203-713-7	0.005	N.D.
42	2-Ethoxyethanol	110-80-5	203-804-1	0.005	N.D.
43	Chromium trioxide*	1333-82-0	215-607-8	0.005	N.D.
44	Chromic acid * Dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.005	N.D.
45	1,2,3-trichloropropane	96-18-4	202-486-1	0.005	N.D.
46	Strontium chromate	7789-06-2	232-142-6	0.005	N.D.
47	2-ethoxyethyl acetate	111-15-9	203-839-2	0.005	N.D.
48	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.005	N.D.
49	Hydrazine	7803-57-8 302-01-2	206-114-9	0.005	N.D.



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50	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.005	N.D.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.005	N.D.
52	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.005	N.D.
53	Potassium * hydroxyoctaoxodizincatedi - chromate *	11103-86-9	234-329-8	0.005	N.D.
54	Pentazinc chromate octahydroxide	49663-84-5	256-418-0	0.005	N.D.
55	Aluminosilicate Refractory Ceramic Fibres (Al-RCF)*	-	--	0.005	N.D.
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr - RCF)*	-	--	0.005	N.D.
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.005	N.D.
58	Bis(2 - methoxyethyl) phthalate	117-82-8	204-212-6	0.005	N.D.
59	2 - Methoxyaniline; o - Anisidine	90-04-0	201-963-1	0.005	N.D.
60	4 - (1,1,3,3 - tetramethylbutyl) phenol, (4 - tert - Octylphenol)	140-66-9	205-426-2	0.005	N.D.
61	1,2 - Dichloroethane	107-06-2	203-458-1	0.005	N.D.
62	Bis(2 - methoxyethyl) ether	111-96-6	203-924-4	0.005	N.D.
63	Arsenic acid *	7778-39-4	231-901-9	0.005	N.D.
64	Calcium arsenate *	7778-44-1	231-904-5	0.005	N.D.
65	Trilead diarsenate *	3687-31-8	222-979-5	0.005	N.D.
66	N,N - dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005	N.D.
67	2,2' - dichloro - 4,4' - methylenedianiline (MOCA)	101-14-4	202-918-9	0.005	N.D.
68	Phenolphthalein	77-09-8	201-004-7	0.005	N.D.
69	Lead azide Lead diazide *	13424-46-9	236-542-1	0.005	N.D.
70	Lead styphnate *	15245-44-0	239-290-0	0.005	N.D.
71	Lead dipicrate *	6477-64-1	229-335-2	0.005	N.D.



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72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.005	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.005	N.D.
74	Diboron trioxide**	215-125-8	130-125-8	0.005	N.D.
75	Formamide	75-12-7	200-842-0	0.005	N.D.
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.005	N.D.
77	(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	219-514-3	2451-62-9	0.005	N.D.
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6	0.005	N.D.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	202-027-5	90-94-8	0.005	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	0.005	N.D.
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	208-953-6	548-62-9	0.005	N.D.
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	219-943-6	2580-56-5	0.005	N.D.
83	α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino) naphthalene - 1-methanol (C.I. Solvent Blue 4)	229-851-8	6786-83-0	0.005	N.D.
84	4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol	209-218-2	561-41-1	0.005	N.D.
85	Bis(pentabromophenyl) ether (DecaBDE)	214-604-9	1163-19-5	0.005	N.D.
86	Pentacosfluorotridecanoic acid	276-745-2	72629-94-8	0.005	N.D.
87	Tricosfluorododecanoic acid	206-203-2	307-55-1	0.005	N.D.
88	Henicosfluoroundecanoic acid	218-165-4	2058-94-8	0.0005	N.D.



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89	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	0.05	N.D.
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	/	/	0.05	N.D.
91	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.
92	Diazeno-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	0.005	N.D.
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	201-604-9	85-42-7	0.005	N.D.
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.005	N.D.
95	Methoxy acetic acid	210-894-6	625-45-6	0.005	N.D.
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	0.005	N.D.
97	Diisopentylphthalate (DIPP)	210-088-4	605-50-5	0.005	N.D.
98	N-pentyl-isopentylphthalate	-	-	0.005	N.D.
99	1,2-Diethoxyethane	211-076-1	629-14-1	0.005	N.D.
100	N,N-dimethylformamide; dimethyl formamide	200-679-5	68-12-2	0.005	N.D.
101	Dibutyltin dichloride (DBT)	211-670-0	683-18-1	0.005	N.D.
102	Acetic acid, lead salt, basic	257-175-3	51404-69-4	0.005	N.D.
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)	215-290-6	1319-46-6	0.005	N.D.



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104	Lead oxide sulfate (basic lead sulfate)	234-853-7	12036-76-9	0.005	N.D.
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)	273-688-5	69011-06-9	0.005	N.D.
106	Dioxobis(stearato)trilead	235-702-8	12578-12-0	0.005	N.D.
107	Fatty acids, C16-18, lead salts C16-18-	292-966-7	91031-62-8	0.005	N.D.
108	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	0.005	N.D.
109	Lead cyanamate	244-073-9	20837-86-9	0.005	N.D.
110	Lead dinitrate	233-245-9	10099-74-8	0.005	N.D.
111	Lead oxide (lead monoxide)	215-267-0	1317-36-8	0.005	N.D.
112	Lead tetroxide (orange lead)	215-235-6	1314-41-6	0.005	N.D.
113	Lead titanium trioxide	235-038-9	12060-00-3	0.005	N.D.
114	Lead Titanium Zirconium Oxide	235-727-4	12626-81-2	0.005	N.D.
115	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	0.005	N.D.
116	Pyrochlore, antimony lead yellow C.I.	232-382-1	8012-00-8	0.005	N.D.
117	Silicic acid, barium salt, lead-doped	272-271-5	68784-75-8	0.005	N.D.
118	Silicic acid, lead salt	234-363-3	11120-22-2	0.005	N.D.
119	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	0.005	N.D.
120	Tetraethyllead	201-075-4	78-00-2	0.005	N.D.
121	Tetralead trioxide sulphate	235-380-9	12202-17-4	0.005	N.D.
122	Trilead dioxide phosphonate	235-252-2	12141-20-7	0.005	N.D.
123	Furan	203-727-3	110-00-9	0.005	N.D.
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	200-879-2	75-56-9	0.005	N.D.
125	Diethyl sulphate	200-589-6	64-67-5	0.005	N.D.
126	Dimethyl sulphate	201-058-1	77-78-1	0.005	N.D.
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1, 3-oxazolidine3-	421-150-7	143860-04-2	0.005	N.D.



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128	Dinoseb	201-861-7	88-85-7	0.005	N.D.
129	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	0.005	N.D.
130	4,4'-oxydianiline and its salts	202-977-0	101-80-4	0.005	N.D.
131	4-Aminoazobenzene; 4-Phenylazoaniline	200-453-6	60-09-3	0.005	N.D.
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	202-453-1	95-80-7	0.005	N.D.
133	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	0.005	N.D.
134	Biphenyl-4-ylamine	202-177-1	92-67-1	0.005	N.D.
135	o-aminoazotoluene	202-591-2	97-56-3	0.005	N.D.
136	o-Toluidine; 2-Aminotoluene	202-429-0	95-53-4	0.005	N.D.
137	N-methylacetamide	201-182-6	79-16-3	0.005	N.D.
138	1-bromopropane; n-propyl bromide	203-445-0	106-94-5	0.005	N.D.
139	Cadmium	7440-43-9	231-152-8	0.005	N.D.
140	Cadmium oxide	1306-19-0	215-146-2	0.005	N.D.
141	Ammonium pentadecafluorooctanoate	3825-26-1	223-320-4	0.005	N.D.
142	Pentadecafluorooctanoic acid	335-67-1	206-397-9	0.005	N.D.
143	Dipentyl phthalate	131-18-0	205-017-9	0.005	N.D.
144	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.



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145	Cadmium sulphide	1306-23-6	215-147-8	0.005	N.D.
146	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	0.005	N.D.
147	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	0.005	N.D.
148	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	--	--	0.005	N.D.
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.005	N.D.
150	Lead di(acetate)	301-04-2	206-104-4	0.005	N.D.
151	Trixylyl phosphate	25155-23-1	246-677-8	0.005	N.D.
152	Cadmium chloride	233-296-7	10108-64-2	0.005	N.D.
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	0.005	N.D.
154	Sodium peroxometaborate	231-556-4	7632-04-4	0.005	N.D.
155	Sodium perborate; perboric acid, sodium salt	239-172-9; 234-390-0	/	0.005	N.D.



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156	Cadmium sulphate	10124-36-4; 31119-53-6	233-331-6	0.005	N.D.
157	Cadmium fluoride	7790-79-6	232-222-0	0.005	N.D.
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.005	N.D.
159	2-(2H-benzotriazol-2-yl)-4,6-ditertphenylphenol (UV-328)	25973-55-1	247-384-8	0.005	N.D.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	15571-58-1	239-622-4	0.005	N.D.
161	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)	-	-	0.005	N.D.
162	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.005	N.D.
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane	--	-	0.005	N.D.
164	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.005	N.D.
165	Nitrobenzene	98-95-3	202-716-0	0.005	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.005	N.D.
167	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.005	N.D.
168	1,3-propanesultone	1120-71-4	214-317-9	0.005	N.D.
169	Benzo[def]chrysene	50-32-8	200-028-5	0.005	N.D.



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No.	Items	CAS No.	EC No.	MDL(%)	Total(%)
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.005	N.D.
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.
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7 335-76-2 3830-45-3	221-470-5 206-400-3 --	0.005	N.D.
173	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.005	N.D.
174	Perfluorohexane-1-sulphonic acid and its salts	355-46-4	206-587-1	0.005	N.D.
175	Dechlorane[including all trans and cis isomers and their combinations]	-	-	0.005	N.D.
176	Benzo [a] anthracene	56-55-3	200-280-6	0.005	N.D.
177	Cadmium nitrate	10325-94-7	233-710-6	0.005	N.D.
178	Carbonic acid	513-78-0	208-168-9	0.005	N.D.
179	Cadmium hydroxide	21041-95-2	244-168-5	0.005	N.D.
180	Chrysene	218-01-9	205-923-4	0.005	N.D.
181	1,3,4- thiothiazolane -2,5- two thione, formaldehyde and 4- heptal phenol chain and direct chain (RP-HP) reaction products[4- heptyl phenol, branched and amylose content $\geq 0.1\%w / W$]	-	-	0.005	N.D.



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Tested part(s):

- (1) Mixture of all metal;
- (2) Mixture of non-metal;
- (3) Mixture of all glass;
- (4) Battery.

Note:

- N.D. = Not Detected or less than MDL
- 0.1%=1000mg/kg
- Carcinogenic, Mutagenic or toxic to Reproduction (CMR), meeting the criteria for classification in category 1 or 2 in accordance with Directive 67/548/EEC, Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) according to the criteria in Annex of XIII of the REACH Regulation, and/or Identified, on a case-by-case basis, from scientific evidence as causing probable serious effects to human health or the environment of an equivalent level of concern as those above (e.g. endocrine disruptors)
- * = Calculated concentration of Cobalt Dichloride(CoCl_2) is based on the identified heavy metal and anion result. Calculated concentration of Diarsenic Pentaoxide(As_2O_5), Diarsenic Trioxide(As_2O_3), Sodium Dichromate, Dihydrate, Lead Hydrogen Arsenate, Boric acid, Sodium chromate, Potassium chromate, and Triethyl Arsenate etc. are based on the identified metal and anion result. Identity of above metal substances present in the article has to be further confirmed.
- ** = Calculated concentration of bis(tributyltin)oxide TBTO is based on the identified tributyltin, TBT results. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is required if the exact amount of TBTO has to be determined.
- *** = Calculated concentration of these coal-tar products is based on the identified polycyclic aromatic hydrocarbons (PAHs) and heterocyclic compounds
- **** = Calculated concentration of these Aluminosilicate and Zirconia Aluminosilicate is based on the identified aluminum and zirconium results by ICP-AES
http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp

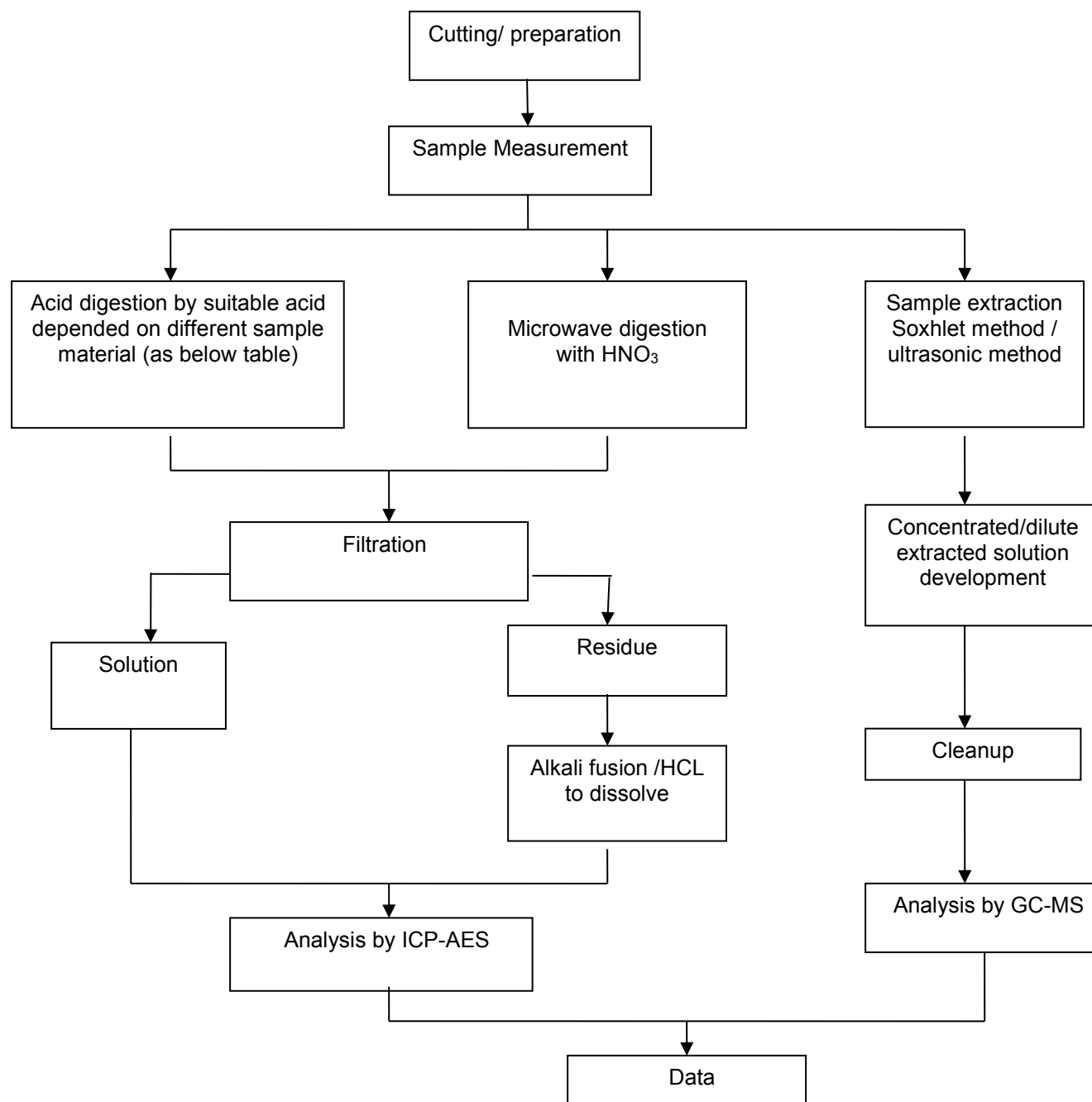
If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory

= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as a average value because of the whole specimen is regarded as constituting from the homogeneous material. If according to the provision, the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk. Flow chart appendix is included.

Photo appendix is included.



Appendix





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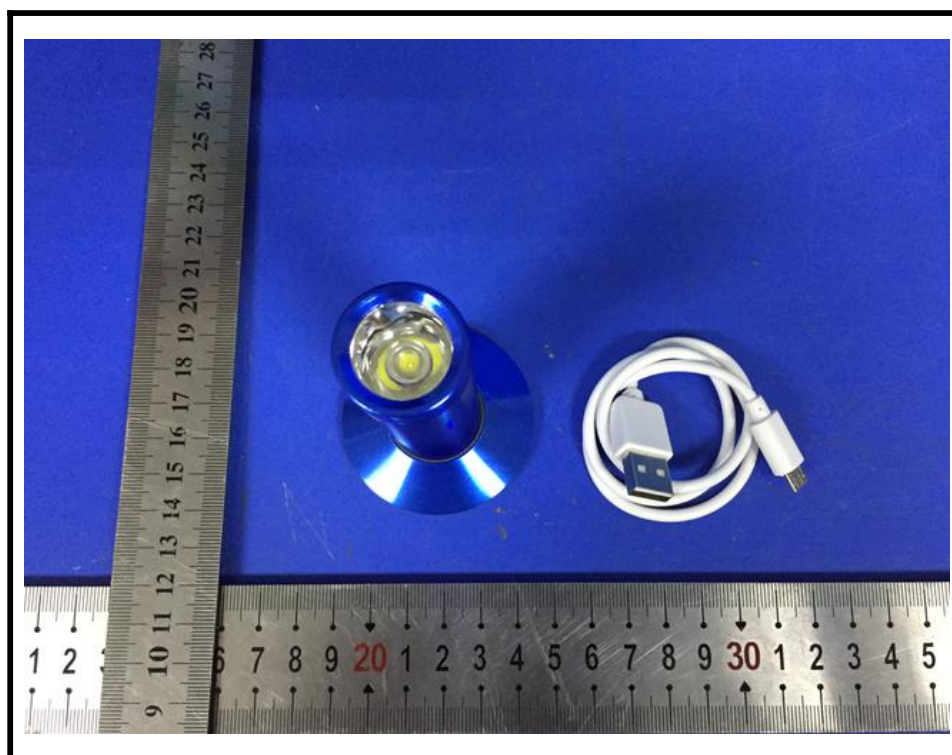
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Table :

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCL, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ ,HCL
Others	Any acid to total digestion

Photograph of Sample





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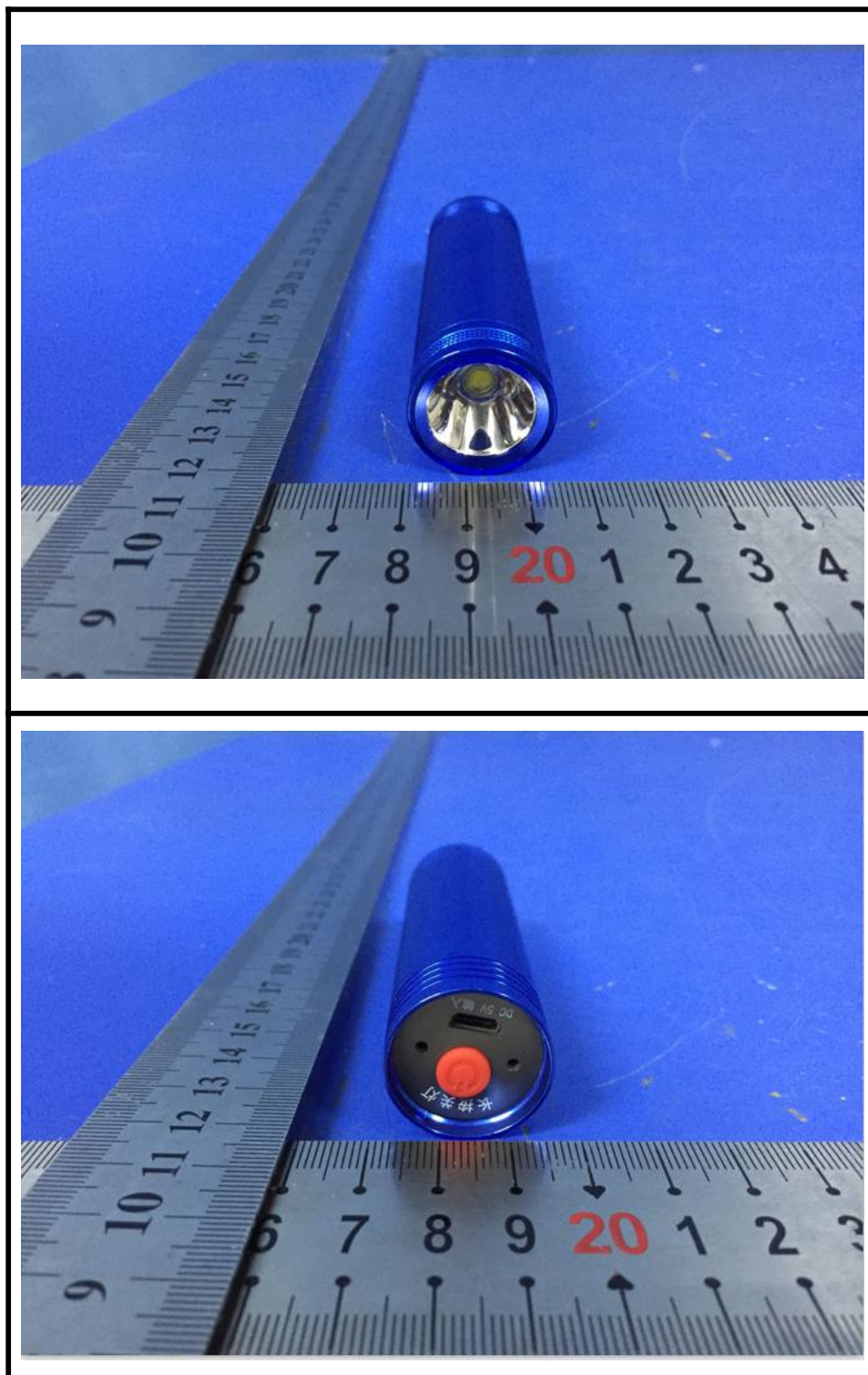
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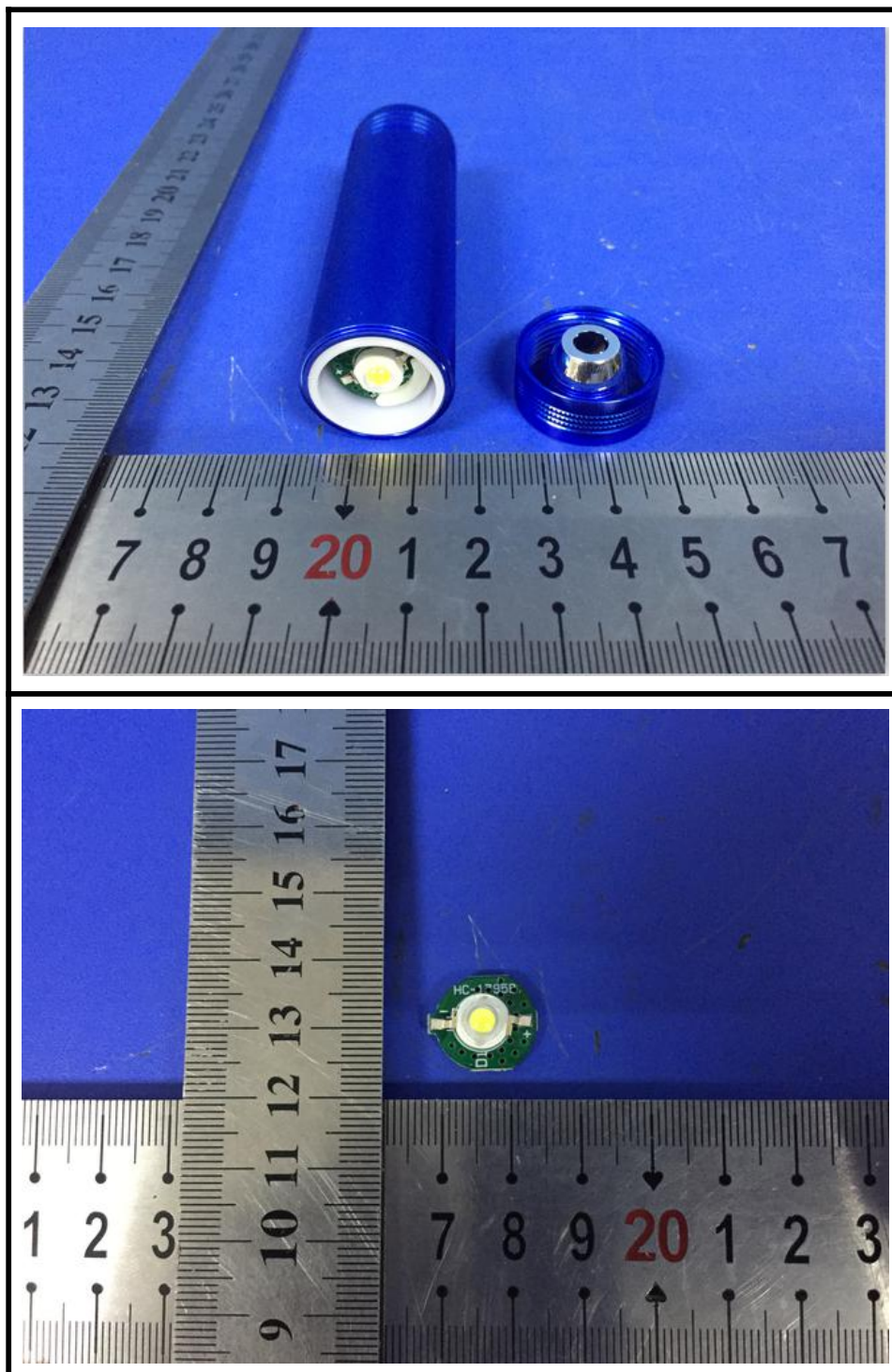
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*** End of Report ***

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