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Applicant/ Manufacturer:

Dongguan Tongyuan Industrial Co., Ltd

Address:

Building 22, carnier science and Technology Park, 99 Hongye North Road, Tangxia Town,

Dongguan City

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

Sample Name: Aluninum Electrolytic Capacitor

Sample Received Date: Oct.09, 2021

**Testing Period:** Oct.09, 2021 To Oct.12, 2021

Test Requested: Two hundred and nineteen(219)Substances of Very High Concern (SVHC) Based

on the list Published by European Chemicals Agency (REACH) 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 ,Dec. 19, 2016,Jun. 16, 2017,Dec.

20,2017 ,Apr.28,2018,Jun.27,2018,Jan.15,2019,Jul.16,2019,Sept.03,2019, Jun.16,2020,Jan.19,2021, Jul.08,2021 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).

Conclusion: Candidate List of Substances of Very High Concern for authorization

published by European Chemicals Agency (ECHA)Regarding

Regualtion(EC)No.1907/2006 concerning REACH

**PASS** 

Signed for and on behalf of

Andy Zheng
Technical Director

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Dongguan TST Technology Co., Ltd.

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#### Test method and Test equipment:

No.	Test Item	CAS No.	MDL(%)	Result (%)
1	Anthracene	120-12-7	0.005	N.D.
2	4,4'-Diaminodiphenylmenthane	101-77-9	0.005	N.D.
3	Dibuty1 phthalate (DBP)	84-74-2	0.005	N.D.
4	5-tert-buty1-2,4,6-trinitro-m- Xylene(musk xylene)	81-15-2	0.005	N.D.
5	Diisooctyl Phthalate (DEHP)	117-81-7	0.005	N.D.
6	Hexabromocyclododecane (HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 34237-50-6, 134237-52-8)	0.005	N.D.
7	Alkanes,C10-13,chloro(Short Chain Chlorinated Paraffins)	85535-84-8	0.01	N.D.
8	Benzyl butyl phthalate (BBP)	85-68-7	0.005	N.D.
9	Bis(tributyltin)oxide	56-35-9	0.005	N.D.
10	Cobalt dichloride	7646-79-9	0.005	N.D.
11	Diarsenic pentaoxide	1303-28-2	0.005	N.D.
12	Diarsenic trioxide	1327-53-3	0.005	N.D.
13	Triethyl arsenate	15606-95-8	0.005	N.D.
14	Lead hydrogen arsenate	7784-40-9	0.005	N.D.



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15	Sodium dichromate, dihydrate	10588-01-9	0.005	N.D.
16	Anthracene oil	90640-80-5	0.005	N.D.
17	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	0.005	N.D.
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.005	N.D.
19	Anthracene oil, anthracene-low	90640-82-7	0.005	N.D.
20	Anthracene oil, anthracene paste	90640-81-6	0.050	N.D.
21	Diisobutyl phthalate	84-69-5	0.005	N.D.
22	2,4-Dinitrotoluene	121-14-2	0.005	N.D.
23	coal tar pitch, high temperature	65996-93-2	0.050	N.D.
24	tris(2-chloroethyl)phosphate	115-96-8	0.005	N.D.
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	0.005	N.D.
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)	12656-85-8	0.005	N.D.
27	Lead chromate	7758-97-6	0.005	N.D.
28	Acrylamide	79-06-1	0.005	N.D.
29	Trichloroethylene	79-01-6	0.005	N.D.
30	Boric acid	11113-50-1	0.005	N.D.
31	Disodium tetraborate, anhydrou	12179-04-3	0.005	N.D.



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tetraboron disodium heptaoxide hydrate	12267-73-1	0.005	N.D.
Sodium chromate	7775-11-3	0.005	N.D.
Potassium chromate	7789-00-6	0.005	N.D.
Ammonium dichromate	7789-09-5	0.005	N.D.
Potassium dichromate	7778-50-9	0.005	N.D.
Cobalt sulfate	10124-43-3	0.005	N.D.
Cobalt dinitrat	10141-05-6	0.005	N.D.
Cobalt carbonate	513-79-1	0.005	N.D.
Cobalt diacetate	71-48-7	0.005	N.D.
2-Methoxyethanol	109-86-4	0.005	N.D.
2-Ethoxyethanol	110-80-5	0.005	N.D.
Chromium trioxide	1333-82-0	0.005	N.D.
Chromic acid	7738-94-5		
Dichromic acid	13530-68-2		
Oligomers of chromicacid and dichromic acid		0.005	N.D.
2- ethoxyethyl acetate	111-15-9	0.005	N.D.
strontium chromate	7789-06-2	0.005	N.D.
1,2-Benzenedicarboxylicacid,di-(C7-11)-bra nched and linear alkylesters	68515-42-4	0.005	N.D.
	Sodium chromate  Potassium chromate  Ammonium dichromate  Potassium dichromate  Cobalt sulfate  Cobalt dinitrat  Cobalt carbonate  Cobalt diacetate  2-Methoxyethanol  2-Ethoxyethanol  Chromic acid  Dichromic acid  Oligomers of chromicacid and dichromic acid  2- ethoxyethyl acetate  strontium chromate  1,2-Benzenedicarboxylicacid,di-(C7-11)-bra	Sodium chromate         7775-11-3           Potassium chromate         7789-00-6           Ammonium dichromate         7789-09-5           Potassium dichromate         7778-50-9           Cobalt sulfate         10124-43-3           Cobalt dinitrat         10141-05-6           Cobalt carbonate         513-79-1           Cobalt diacetate         71-48-7           2-Methoxyethanol         109-86-4           2-Ethoxyethanol         110-80-5           Chromium trioxide         1333-82-0           Chromic acid         7738-94-5           Dichromic acid         13530-68-2           Oligomers of chromicacid and dichromic acid            2- ethoxyethyl acetate         111-15-9           strontium chromate         7789-06-2           1,2-Benzenedicarboxylicacid,di-(C7-11)-bra         68515-42-4	Sodium chromate         7775-11-3         0.005           Potassium chromate         7789-00-6         0.005           Ammonium dichromate         7789-09-5         0.005           Potassium dichromate         7778-50-9         0.005           Cobalt sulfate         10124-43-3         0.005           Cobalt dinitrat         10141-05-6         0.005           Cobalt carbonate         513-79-1         0.005           Cobalt diacetate         71-48-7         0.005           2-Methoxyethanol         109-86-4         0.005           2-Ethoxyethanol         110-80-5         0.005           Chromium trioxide         1333-82-0         0.005           Chromic acid         7738-94-5         0.005           Dichromic acid         13530-68-2         0.005           Oligomers of chromicacid and dichromic acid         111-15-9         0.005           strontium chromate         7789-06-2         0.005           1,2-Benzenedicarboxylicacid,di-(C7-11)-bra         68515-42-4         0.005



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48	Hydrazine	7803-57-8	0.005	N.D.
		302-01-2		
49	1-Methyl-2-pyrrolidinone	872-50-4	0.005	N.D.
50	1,2,3-trichloropropane	96-18-4	0.005	N.D.
	1,2-Benzenedicarboxylic acid,		•	
51	di-(C7-11)-branched and linear alkyl	71888-89-6	0.005	N.D.
	esters,C7-rich			
52	Zirconia Aluminosilicate Refractory Ceramic Fibres	5	0.005	N.D.
53	Calcium arsenate	7778-44-1	0.005	N.D.
54	Bis(2-methoxyethyl) ether	111-96-6	0.005	N.D.
55	Aluminosilicate Refractory Ceramic Fibres		0.005	N.D.
56	Chromate, hydroxyoctaoxodizincatedi-, potassium	11103-86-9	0.005	N.D.
57	Lead dipicrate	6477-64-1	0.005	N.D.
58	N,N-dimethylacetamide	127-19-5	0.005	N.D.
59	Arsenic acid	7778-39-4	0.005	N.D.
60	2-Methoxyaniline; o-Anisidine	90-04-0	0.005	N.D.
61	Trilead diarsenate	3687-31-8	0.005	N.D.
62	1,2-dichloroethane	107-06-2	0.005	N.D.
63	Pentazinc chromate octahydroxide	49663-84-5	0.005	N.D.



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64	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.005	N.D.
65	Formaldehyde, oligomeric reaction products aniline	25214-70-4	0.005	N.D.
66	Bis(2-methoxyethyl) phthalate	117-82-8	0.005	N.D.
67	Lead diazide, Lead azide	13424-46-9	0.005	N.D.
68	Lead styphnate	15245-44-0	0.005	N.D.
69	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.005	N.D.
70	Phenolphthalein	77-09-8	0.005	N.D.
71	Dichromium tris(chromate)	24613-89-6	0.005	N.D.
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.005	N.D.
73	1,2-dimethoxyethane;ethylene glycol dimethyl ether (EGDME)	110-71-4	0.005	N.D.
74	Diboron trioxide	1303-86-2	0.005	N.D.
75	Formamide	75-12-7	0.005	N.D.
76	Lead(II)bis(methanesulfonate)	17570-76-2	0.005	N.D.
77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazi ne-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.005	N.D.
78	β-TGIC(1,3,5-tris [(2Sand2R)-2,3-epoxypropyl]-1,3,5-triazine- 2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.005	N.D.



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79	4,4'-bis(dimethylamino) benzophenone(Michler's ketone)	90-94-8	0.005	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianilin e (Michler's base)	101-61-1	0.005	N.D.
	[4-[4,4'-bis(dimethylamino)			
81	benzhydrylidene]cyclohexa-2,5-dien-1-ylide ne]dimethylammonium chloride (C.I. Basic Violet 3)	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)	2580-56-5	0.005	N.D.
83	<ul><li>α,α-Bis[4-(dimethylamino)phenyl]</li><li>-4 (phenylamino)naphthalene</li><li>-1-methanol (C.I. Solvent Blue 4)</li></ul>	6786-83-0	0.005	N.D.
84	4,4'-bis(dimethylamino)-4"-(methylamino)tri tyl alcohol	561-41-1	0.005	N.D.
85	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxaz olidine	143860-04-2	0.005	N.D.
86	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	0.005	N.D.
87	N-methylacetamide	79-16-3	0.005	N.D.
88	Pentalead tetraoxide sulphate	12065-90-6	0.005	N.D.
89	Biphenyl-4-ylamine	202-177-1	0.005	N.D.
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90	Dinoseb	88-85-7	0.005	N.D.
91	Dioxobis(stearato)trilead	12578-12-0	0.005	N.D.
92	Lead dinitrate	10099-74-8	0.005	N.D.
93	Tetralead trioxide sulphate	12202-17-4	0.005	N.D.
94	Lead oxide (lead monoxide)	1317-36-8	0.005	N.D.
95	Lead titanium trioxide	12060-00-3	0.005	N.D.
96	4,4'-methylenedi-o-toluidine	838-88-0	0.005	N.D.
97	Acetic acid, lead salt, basic	51404-69-4	0.005	N.D.
98	Dimethyl sulphate	77-78-1	0.005	N.D.
99	Furan	110-00-9	0.005	N.D.
100	Pyrochlore, antimony lead yellow	8012-00-8	0.005	N.D.
101	Tetraethyllead	78-00-2	0.005	N.D.
102	[Phthalato(2-)]dioxotrilead	69011-06-9	0.005	N.D.
103	Diethyl sulphate	64-67-5	0.005	N.D.
104	Lead cynamidate	20837-86-9	0.005	N.D.
105	Silicic acid, barium salt, lead-doped	68784-75-8	0.005	N.D.
106	Trilead dioxide phosphonate	12141-20-7	0.005	N.D.
107	o-Toluidine; 2-Aminotoluene	95-53-4	0.005	N.D.
108	o-aminoazotoluene	97-56-3	0.005	N.D.



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109       4-Aminoazobenzene; 4-Phenylazoaniline       60-09-03       0.005       N.D.         110       6-methoxy-m-toluidine (p-cresidine)       120-71-8       0.005       N.D.         111       Dibutyltin dichloride (DBT)       683-18-1       0.005       N.D.         112       Lead Titanium Zirconium Oxide       12626-81-2       0.005       N.D.         113       Propylene oxide; 1,2-epoxypropane; methyloxirane       75-56-9       0.005       N.D.	>
111       Dibutyltin dichloride (DBT)       683-18-1       0.005       N.D.         112       Lead Titanium Zirconium Oxide       12626-81-2       0.005       N.D.         Propylene oxide; 1,2-epoxypropane;       75-56-9       0.005       N.D.	>
112         Lead Titanium Zirconium Oxide         12626-81-2         0.005         N.D.           113         Propylene oxide; 1,2-epoxypropane;         75-56-9         0.005         N.D.	2
Propylene oxide; 1,2-epoxypropane; 75-56-9 0.005 N.D.	
113   75-56-9   0.005   N.D.	
114 1-bromopropane 106-94-5 0.005 N.D.	>
Basic lead carbonate (trilead bis(carbonate)dihydroxide)  1319-46-6  0.005  N.D.	
116 Fatty acids, C16-18, lead salts 91031-62-8 0.005 N.D.	
117 Lead tetroxide (orange lead) 1314-41-6 0.005 N.D.	,
118 Sulfurous acid, lead salt, dibasic 62229-08-7 0.005 N.D.	
119 4,4'-oxydianiline and its salts 101-80-4 0.005 N.D.	
120 lead oxide sulphate 12036-76-9 0.005 N.D.	
121 Lead bis(tetrafluoroborate) 13814-96-6 0.005 N.D.	5
122 Silicic acid, lead salt 11120-22-2 0.005 N.D.	
123 Bis(pentabromophenyl) ether (DecaBDE) 1163-19-5 0.005 N.D.	



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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	5 T	0.005	N.D.
125	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.005	N.D.
126	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	SI	0.005	N.D.
127	1,2-Diethoxyethane	629-14-1	0.005	N.D.
128	Hexahydromethylphathalic anhydride Hexahydro-4-methylphathalic anhydride Hexahydro-1-methylphathalic anhydride Hexahydro-3-methylphathalic anhydride	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.005	N.D.
129	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7	0.005	N.D.
130	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.005	N.D.
131	N-pentyl-isopentylphtalate		0.005	N.D.



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132	Heptacosafluorotetradecanoic acid	376-06-7	0.005	N.D.
133	Pentacosafluorotridecanoic acid	72629-94-8	0.005	N.D.
134	Henicosafluoroundecanoic acid	2058-94-8	0.005	N.D.
135	Tricosafluorododecanoic acid	307-55-1	0.005	N.D.
136	Methoxy acetic acid	625-45-6	0.005	N.D.
137	Diisopentylphthalate	605-50-5	0.005	N.D.
138	N,N-dimethylformamide; dimethyl formamide	68-12-2	0.005	N.D.
139	Cadmium	7440-43-9	0.005	N.D.
140	Cadmium oxide	1306-19-0	0.005	N.D.
141	Dipentyl phthalate (DPP)	131-18-0	0.005	N.D.
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]	ST	0.005	N.D.



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143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.005	N.D.
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.005	N.D.
145	Cadmium Sulfide	1306-23-6	0.005	N.D.
146	Di-N-Hexyl Phthalate	84-75-3	0.005	N.D.
147	Direct Red 28	573-58-0	0.005	N.D.
148	Direct Black 38	1937-37-7	0.005	N.D.
149	Ethlenethiourea	96-45-7	0.005	N.D.
150	Acetic Acid	301-04-2	0.005	N.D.
151	Trixylyl Phosphate	25155-23-1	0.005	N.D.
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4.	0.005	N.D.
153	Cadmium chloride	10108-64-2.	0.005	N.D.
154	Sodium perborate; perboric acid, sodium salt		0.005	N.D.
155	Sodium peroxometaborate	7632-4-4	0.005	N.D.
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.005	N.D.
	2-ethylhexyl			
157	10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-	15571-58-1	0.005	N.D.
	4-stannatetradecanoate (DOTE)	S		5
158	Reaction mass of 2-ethylhexyl		0.005	N.D.
	10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-			



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	4-stannatetradecanoate and 2-ethylhexyl			
	10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoeth			
	yl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-sta			
	nnatetradecanoate (reaction mass of DOTE			- S
	and MOTE)		, ,	
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.005	N.D.
160	Cadmium fluoride	7790-79-6	0.005	N.D.
161	Cadmium sulphate	10124-36-4,	0.005	N.D.
161	Cadmium sulphate	31119-53-6	0.003	N.D.
162	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	68515-51-5, 68648-93-1	0.005	N.D.
1	5-sec-butyl-2-(2,4-dimethylcyclohex			
163	-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 isomers of [1] and [2] orany combination thereof]	ST	0.005	N.D.
164	Nitrobenzene	98-95-3	0.005	N.D.
165	4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol	3864-99-1	0.005	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(se c-butyl)phenol	136437-37-3	0.005	N.D.



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167	3-propanesultone	1120-71-4	0.005	N.D.
168	Perfluorononan-1-oic acid	375-95-1 21049-39-8 4149-60-4	0.005	N.D.
169	Benzo(a)pyrene	50-32-8	0.005	N.D.
170	Bisphenol A	80-05-7	0.005	N.D.
171	Nonadecafluorodecanoic acid(PFDA) and its sodium and ammonium salts	335-76-2	0.005	N.D.
172	4-heptylphenol,branched and linear(4-HPbl)	5-1	0.005	N.D.
173	4-tert-Amylphenol (PTAP)	80-46-6	0.005	N.D.
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)		0.005	N.D.
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloro pentacyclo[12.2.1.16,9.02,13.05,10]octadeca -7,15-diene("DechloranePlus"TM)[covering anyofitsindividualanti-andsyn-isomersoranyc ombinationthereof].	5	0.050	N.D.
176	Benz[a]anthracene	56-55-3	0.050	N.D.
177	Cadmiumnitrate	10325-94-7	0.050	N.D.
178	Cadmiumcarbonate	513-78-0	0.050	N.D.
179	Cadmiumhydroxide	21041-95-2	0.050	N.D.
180	Chrysene	218-01-9	0.050	N.D.
181	Reactionproductsof1,3,4-thiadiazolidine-2,5-dithione,formaldehydeand4-heptylphenol,bra		0.050	N.D.
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	nchedandlinear(RP-HP)[with \ge 0.1\%w/w4-he			
	ptylphenol,branchedand			
	linear].			
182	1,2,4-tricarboxylic acid 1,2 anhydride(trimellitic anhydride)	209-008-0	0.005	N.D.
183	Dicyclohexyl phthalate(DCHP)	201-545-9	0.005	N.D.
184	Benzo (g hi) perylene	191-24-2	0.005	N.D.
185	Decamethylcyclopentasiloxane(D5)	541-02-6	0.005	N,D.
186	Disodium octaborate	12008-41-2	0.001	N.D.
187	Dodecylmethylcyclohexasiloxane(D6)	540-97-6	0.005	N.D.
188	Ethylenediamine	107-15-3	0.005	N.D.
189	Lead	7439-92-1	0.001	N.D.
190	Octacyclotetrasiloxane (D4)	556-67-2	0.005	N.D.
191	Terphenyl hydrogenated	61788-32-7	0.005	N.D.
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.005	N.D.
193	Benzo[k]fluoranthene	207-08-9	0.005	N.D.
194	Fluoranthene	206-44-0	0.005	N.D.
195	Phenanthrene	85-01-8	0.005	N.D.
196	Pyrene	129-00-0	0.005	N.D.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[	15087-24-8	0.005	N.D.
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2.2.1]heptan-2-one			
HFPO-DA 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)pr opionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	3 T	0.005	N.D.
2-Methoxyethyl Acetate	110-49-6	0.005	N.D.
Tris(4-nonylphenyl,branched and linear) Phosphite(TNPP)with≥0.1%w/w of 4-nonylphenol,branched and linear (4-NP)	ST	0.005	N.D.
4-tert-Butylphenol(PTBP)	98-54-4	0.005	N.D.
2-Benzyl-2-Dimethylamino-1-(4'-Morpholin ylphenyl)Butanone	119313-12-1	0.005	N.D.
2-Methyl-1-(4-Methylthiophenyl)-2-Morphol inyl-1-Propan-1-One	71868-10-5	0.005	N.D.
Diisohexyl Phthalate	71850-09-4	0.005	N.D.
Perfluorobutane Sulfonic Acid (Pfbs) And Its Salts	-	0.005	N.D.
1-vin 1072-63-ylimidazole	1072-63-5	0.005	N.D.
2-methylimidazole	693-98-1	0.005	N.D.
Butyl 4-hydroxybenzoate	94-26-8	0.005	N.D.
Dibutylbis(pentane-2,4-dionato-O,O'tin)	22673-19-4	0.005	N.D.
Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.005	N.D.
Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs.	5	0.005	N.D.
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)pr opionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)  2-Methoxyethyl Acetate  Tris(4-nonylphenyl,branched and linear) Phosphite(TNPP)with≥0.1%w/w of 4-nonylphenol,branched and linear (4-NP)  4-tert-Butylphenol(PTBP)  2-Benzyl-2-Dimethylamino-1-(4'-Morpholin ylphenyl)Butanone  2-Methyl-1-(4-Methylthiophenyl)-2-Morphol inyl-1-Propan-1-One  Diisohexyl Phthalate  Perfluorobutane Sulfonic Acid (Pfbs) And Its Salts  1-vin 1072-63-ylimidazole  2-methylimidazole  Butyl 4-hydroxybenzoate  Dibutylbis(pentane-2,4-dionato-O,O'tin)  Bis(2-(2-methoxyethoxy)ethyl)ether  Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)pr opionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)  2-Methoxyethyl Acetate  Tris(4-nonylphenyl,branched and linear) Phosphite(TNPP)with≥0.1%w/w 4-nonylphenol,branched and linear (4-NP)  4-tert-Butylphenol(PTBP)  98-54-4  2-Benzyl-2-Dimethylamino-1-(4'-Morpholin ylphenyl)Butanone  2-Methyl-1-(4-Methylthiophenyl)-2-Morphol inyl-1-Propan-1-One  Diisohexyl Phthalate  71850-09-4  Perfluorobutane Sulfonic Acid (Pfbs) And Its Salts  1-vin 1072-63-ylimidazole  1072-63-5  2-methylimidazole  Butyl 4-hydroxybenzoate  Dibutylbis(pentane-2,4-dionato-O,O'tin)  22673-19-4  Bis(2-(2-methoxyethoxy)ethyl)ether  143-24-8  Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other	2,3,3,3-tetraffuoro-2-(heptaffuoropropoxy)pr opionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)  2-Methoxyethyl Acetate  110-49-6  0.005  Tris(4-nonylphenyl,branched and linear) Phosphite(TNPP)with≥0.196w/w 4-nonylphenol,branched and linear (4-NP)  4-tert-Butylphenol(PTBP)  98-54-4  0.005  2-Benzyl-2-Dimethylamino-1-(4'-Morpholin ylphenyl)Butanone  2-Methyl-1-(4-Methylthiophenyl)-2-Morphol inyl-1-Propan-1-One  Diisohexyl Phthalate  71850-09-4  0.005  Perfluorobutane Sulfonic Acid (Pfbs) And Its Salts  1-vin 1072-63-ylimidazole  1072-63-5  0.005  2-methylimidazole  1072-63-5  0.005  Butyl 4-hydroxybenzoate  Dibutylbis(pentane-2,4-dionato-O,O'tin)  22673-19-4  0.005  Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other



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		1		
	wherein C12 is the predominant carbon			
	number of the fatty acyloxy moiety			
212	1,4-dioxane	123-91-1	0.005	N.D.
1	2,2-bis(bromomethyl)propane1,3-diol(BMP) 2,2-dimethylpropan-1-ol,tribromo	3296-90-0 36483-57-5/15	7	
213	derivative/3-bromo-2,2-bis(bromomethyl)-1- propanol(TBNPA)  2,3-dibromo-1-propanol(2,3-DBPA)	22-92-5 96-13-9	0.005	N.D.
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.005	N.D.
215	4,4'-(1-mentylpropylidene)bisphenol(bisphenol B)	77-40-7	0.005	N.D.
216	Glutaral	111-30-8	0.005	N.D.
	Medium-chain chlorinated paraffins(MCCP)[UVCB substances			
217	consisting of more than or equal to 80% linear chloroalkaneas with carbon chain lengths within the tange from C14 to C17]	ST	0.005	N.D.
218	Orthoboric acid, sodium salt	13840-56-7	0.005	N.D.
219	Phenol,alkylation products(mainly in paraposition)with C12-rich branched or linear alkyl chains from oligomerisation,covering any individual isomers and/or combinations there of(PDDP)	s.T	0.005	N.D.



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#### Note:

- 1. "\*"=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.
- 2. "\*\*" = Calculated concentration of cobalt dichloride is based on the identified heavy metal and anion result. Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, sodium dichromate, dehydrate, Lead hydrogen arsebnate and triethyl arsenate are based on the identified heavy matal result.
- 3. Definition of classification of this report in accordance 67/548/EEC and Regulation (EC) No.1907/2006.
- 4. Test Method: Analyzed by ICP-AES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.
- 5.MDL = Method Detection Limit
- 6.N.D.= No Detection(<MDL)

#### **Remarks:**

1.In accordance Regulation (EC) No. 1907/2006, any producer or importer of articles shall notify REACH, In accordance paragraph 4 of Article 7, if a substance meets the crteria 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 concertration 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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#### **Sample Photo:**

