

Life3 Pte Ltd
17 Kaki Bukit Place Singapore 416195

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

Sample Name : Quantum-Ion

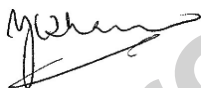
Sample Receiving Date : 23-Mar-2020
Testing Period : 30-Mar-2020 to 07-Apr-2020

Test Requested : As specified by client, the sample(s) was/were tested with reference to Regulation (EC) No 1907/2006 concerning the REACH for :
■ 205 Substances of Very High Concern (SVHC) candidate list according to the press release of ECHA on January 16, 2020

Test Result(s) : Please refer to following pages.

Summary : According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope as well as analytical technique, the test results of the selected component article are $\leq 0.1\%$ (w/w) in the submitted sample(s).

Signed for and on behalf of
SGS Testing & Control Services Singapore Pte Ltd



Y C Tham (Ms)
Laboratory Manager

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Test Result(s):

Sample description : White liquid

Test Method

: SGS In-House method-RSTS-EE-SVHC-007. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD, UPLC-MSMS

Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
1) 4,4'-Diaminodiphenylmethane(MDA) (CAS No.: 101-77-9)	0.05	n.d.
2) 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	0.05	n.d.
3) Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	0.05	n.d.
4) Anthracene (CAS No.: 120-12-7)	0.05	n.d.
5) BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	0.05	n.d.
6) Bis(tributyltin)oxide(TBTO)*** (CAS No.: 56-35-9)	-	n.d.
7) Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	-	n.d.
8) Diarsenic trioxide*** (CAS No.: 1327-53-3)	-	n.d.
9) DBP (Dibutyl phthalate (CAS No.: 84-74-2)	0.05	n.d.
10) Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	0.05	n.d.
11) Lead hydrogen arsenate*** (CAS No.: 7784-40-9)(#1)	-	n.d.
12) Sodium dichromate*** (CAS No.: 7789-12-0; 10588-01-9(*))	-	n.d.
13) Triethyl arsenate*** (CAS No.: 15606-95-8)	-	n.d.
14) Bis (2-ethyl(hexyl)phthalate) (DEHP) (CAS No.: 117-81-7)	0.05	n.d.
15) 2,4-Dinitrotoluene (CAS No.: 121-14-2)	0.05	n.d.
16) Anthracene oil (CAS No.: 90640-80-5) (**)	0.05	n.d.
17) Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	0.05	n.d.
18) Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	0.05	n.d.
19) Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	0.05	n.d.
20) Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	0.05	n.d.
21) DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	0.05	n.d.
22) Lead chromate (CAS No.: 7758-97-6)(#5)	-	n.d.
23) Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)(#5)	-	n.d.
24) Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)(#5)	-	n.d.
25) Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	0.05	n.d.
26) Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	0.05	n.d.
27) Acrylamide (CAS No.: 79-06-1)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
28) Ammonium dichromate*** (CAS No.: 7789-09-5)	-	n.d.
29) Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	-	n.d.
30) Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	-	n.d.
31) Potassium chromate*** (CAS No.: 7789-00-6)	-	n.d.
32) Potassium dichromate*** (CAS No.: 7778-50-9)	-	n.d.
33) Sodium chromate*** (CAS No.: 7775-11-3)	-	n.d.
34) Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (*2)	-	n.d.
35) Trichloroethylene (CAS No.: 79-01-6)	0.05	n.d.
36) 2-Ethoxyethanol (CAS No.: 110-80-5)	0.05	n.d.
37) 2-Methoxyethanol (CAS No.: 109-86-4)	0.05	n.d.
38) Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.:7738-94-5)	-	n.d.
Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.:13530-68-2)	-	n.d.
Acids generated from chromium trioxide and their oligomers: chromic acid and dichromic acid (*1)	-	n.d.
39) Chromium trioxide*** (CAS No.: 1333-82-0)	-	n.d.
40) Cobalt(II) carbonate*** (CAS No.: 513-79-1)	-	n.d.
41) Cobalt(II) diacetate*** (CAS No.: 71-48-7)	-	n.d.
42) Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	-	n.d.
43) Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	-	n.d.
44) 1,2,3-trichloropropane (CAS No.: 96-18-4)	0.05	n.d.
45) 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	0.05	n.d.
46) 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No.: 68515-42-4)	0.05	n.d.
47) 1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	0.05	n.d.
48) 2-ethoxyethyl acetate (CAS No.: 111-15-9)	0.05	n.d.
49) Hydrazine (CAS No.: 7803-57-8; 302-01-2)	0.05	n.d.
50) Strontium chromate*** (CAS No.: 7789-06-2)	-	n.d.
51) Cobalt dichloride (CAS No.: 7646-79-9)	0.005	n.d.
52) 1,2-Dichloroethane (CAS No.: 107-06-2)	0.05	n.d.
53) 2,2'-dichloro-4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
54) 2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	0.05	n.d.
55) 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	0.05	n.d.
56) Aluminosilicate, Refractory ceramic Fibres [oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges]	0.05	n.d.
57) Arsenic acid*** (CAS No.: 7778-39-4)	-	n.d.
58) Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	0.05	n.d.
59) Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	0.05	n.d.
60) Calcium arsenate *** (CAS No.: 7778-44-1)	-	n.d.
61) Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	-	n.d.
62) Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	0.05	n.d.
63) Lead diazide, lead azide*** (CAS No.: 13424-46-9)	-	n.d.
64) Lead dipicrate*** (CAS No.: 6477-64-1)	-	n.d.
65) Lead styphnate*** (CAS No.: 15245-44-0)	-	n.d.
66) N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	0.05	n.d.
67) Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	-	n.d.
68) Phenolphthalein (CAS No.: 77-09-8)	0.05	n.d.
69) Potassium hydroxyocta oxodizincatedi- chromate*** (CAS No.: 11103-86-9)	-	n.d.
70) Trilead diarsenate*** (CAS No.: 3687-31-8) (#1)	-	n.d.
71) Zirconia Aluminosilicate , Refractory ceramic Fibres [oxides of aluminium silicon and zirconium are the main components present (in the fibres) within variable concentration ranges]	0.05	n.d.
72) [4-[[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) (CAS.2580-56-5) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n.d.
73) [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) (CAS.:548-62-9) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n.d.
74) 1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme) (CAS No.: 112-49-2)	0.05	n.d.
75) 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS.:110-71-4)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
76) TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) (CAS.:2451-62-9)	0.05	n.d.
77) β-TGIC (1,3,5-tris[2S and 2R]-2,3-epoxypropyl]-1,3,5-triazine-2,4,6(1H,3H,5H)-trione) (CAS.:59653-74-6) (#3)	0.05	n.d.
78) 4,4'-bis(dimethylamino)-4''-(methylamino) trityl alcohol (CAS No.: 561-41-1) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n.d.
79) 4,4'-bis(dimethylamino) benzophenone (Michler's ketone) (CAS.:90-94-8)	0.05	n.d.
80) Diboron trioxide*** (CAS No.:1303-86-2)	-	n.d.
81) Formamide (CAS.:75-12-7)	0.05	n.d.
82) Lead(II) bis(methanesulfonate)*** (CAS.:17570-76-2)	-	n.d.
83) N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) (CAS.:101-61-1)	0.05	n.d.
84) α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) (CAS.6786-83-0) [with ≥ 0.1% of Michler's ketone or Michler's base]	0.05	n.d.
85) [Phthalato(2-)] dioxotrilead*** (CAS No.: 69011-06-9)	-	n.d.
86) 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	0.05	n.d.
87) 1,2-Diethoxyethane (CAS No.:629-14-1)	0.05	n.d.
88) 1-bromopropane (CAS No.: 106-94-5)	0.05	n.d.
89) 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No.:143860-04-2)	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) 4,4'-methylenedi-o-toluidine (CAS No.:838-88-0)	0.05	n.d.
92) 4,4'-oxydianiline and its salts (CAS No.:101-80-4)	0.05	n.d.
93) 4-Aminoazobenzene (CAS No.: 60-09-3)	0.05	n.d.
94) 4-methyl-m-phenylenediamine (2,4-toluenediamine) (CAS No.: 95-80-7)	0.05	n.d.
95) 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]	0.05	n.d.
96) 6-methoxy-m-toluidine (p-cresidine) (CAS No.: 120-71-8)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
97) Acetic acid, lead salt, basic*** (CAS No.: 51404-69-4)	-	n.d.
98) Biphenyl-4-ylamine (CAS No.: 92-67-1)	0.05	n.d.
99) Bis(pentabromophenyl) ether (DecaBDE) (CAS No.:1163-19-5)	0.05	n.d.
100) Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride-HHPA) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	0.05	n.d.
101) Diazene-1,2-dicarboxamide(C,C'-azodi(formamide))(CAS No.: 123-77-3)	0.05	n.d.
102) Dibutyltin dichloride (DBTC) (CAS No.: 683-18-1)	-	n.d.
103) Diethyl sulphate (CAS No.: 64-67-5)	0.05	n.d.
104) Diisopentylphthalate (CAS No.:605-50-5)	0.05	n.d.
105) Dimethyl sulphate (CAS No.: 77-78-1)	0.05	n.d.
106) Dinoseb (CAS No.: 88-85-7)	0.05	n.d.
107) Dioxobis(stearato) trilead*** (CAS No.: 12578-12-0)	-	n.d.
108) Fatty acids, C16-18, lead salts*** (CAS No.: 91031-62-8)	-	n.d.
109) Furan (CAS No.: 110-00-9)	0.05	n.d.
110) Henicosafuoroundecanoic acid (CAS No.:2058-94-8)	0.05	n.d.
111) Heptacosafuorotetradecanoic acid (CAS No.:376-06-7)	0.05	n.d.
112) Hexahydromethylphthalic anhydride (CAS No.: 25550-51-0) Hexahydro-4-methylphthalic anhydride (CAS No.: 19438-60-9) Hexahydro-1-methylphthalic anhydride (CAS No.: 48122-14-1) Hexahydro-3-methylphthalic anhydride (CAS No.: 57110-29-9)	0.05	n.d.
113) Lead bis(tetrafluoroborate)*** (CAS No.: 13814-96-5)	-	n.d.
114) Lead cyanamidate*** (CAS No.: 20837-86-9)	-	n.d.
115) Lead dinitrate*** (CAS No.: 10099-74-8)	-	n.d.
116) Lead oxide (lead monoxide)*** (CAS No.: 1317-36-8)	-	n.d.
117) Lead oxide sulfate*** (CAS No.: 12036-76-9)	-	n.d.
118) Lead titanium trioxide*** (CAS No.: 12060-00-3)	-	n.d.
119) Lead Titanium Zirconium Oxide*** (CAS No.:12626-81-2)	-	n.d.
120) Methoxy acetic acid (CAS No.:625-45-6)	0.05	n.d.
121) Propylene oxide; 1,2-epoxypropane; methyloxirane (CAS No.:75-56-9)	0.05	n.d.
122) N,N-dimethylformide; dimethyl formamide (CAS No.:68-12-2)	0.05	n.d.
123) N-methylacetamide (CAS No.: 79-16-3)	0.05	n.d.
124) N-pentyl-isopentylphthalate (CAS No.:776297-69-9)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
125) o-aminoazotoluene (CAS No.: 97-56-3)	0.05	n.d.
126) Lead tetroxide (orange lead)*** (CAS No.: 1314-41-6)	-	n.d.
127) o-Toluidine; 2-Aminotoluene (CAS No.: 95-53-4)	0.05	n.d.
128) Pentacosafuorotridecanoic acid (CAS No.:72629-94-8)	0.05	n.d.
129) Pentalead tetraoxide sulphate*** (CAS No.: 12065-90-6)	-	n.d.
130) Pyrochlore, antimony lead yellow *** (CAS No.: 8012-00-8)	-	n.d.
131) Silicic acid, barium salt, lead-doped*** (CAS No.: 68784-75-8)(#4)	0.05	n.d.
132) Silicic acid, lead salt*** (CAS No.: 11120-22-2)	-	n.d.
133) Sulfurous acid, lead salt, dibasic*** (CAS No.: 62229-08-7)	-	n.d.
134) Tetraethyllead*** (CAS No.: 78-00-2)	-	n.d.
135) Tetralead trioxide sulphate*** (CAS No.: 12202-17-4)	-	n.d.
136) Tricosafuorododecanoic acid (CAS No.:307-55-1)	0.05	n.d.
137) Trilead bis(carbonate) dihydroxide (basic lead carbonate)*** (CAS No.: 1319-46-6)	-	n.d.
138) Trilead dioxide phosphate*** (CAS No.: 12141-20-7)	-	n.d.
139) 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	n.d.
140) Ammoniumpentadecafluorooctanoate (APFO)*** (CAS No.: 3825-26-1)	-	n.d.
141) Cadmium (Cd) (CAS No.: 7440-43-9)	0.005	n.d.
142) Cadmium oxide*** (CAS No.: 1306-19-0)	-	n.d.
143) Di-pentyl phthalate (DPP) (CAS No.: 131-18-0)	0.05	n.d.
144) Pentadecafluorooctanoic acid(PFOA) (CAS No.: 335-67-1)	0.05	n.d.
145) Cadmium sulphide*** (CAS No.: 1306-23-6)	-	n.d.
146) Dihexyl phthalate (CAS No.: 84-75-3)	0.05	n.d.
147) Disodium 3, 3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate)(C.I. Direct Red 28)(CAS No.: 573-58-0)	0.05	n.d.
148) Disodium 4-amimo-3-[[4'-[2,4-diaminophenyl]azo], [1,1'-biphenyl]-4-yl]azo]-5-hydroxyl-6-(phenylazo)naphthalene-2,7-disulphonate)(C.I. Direct Black 38)(CAS No.: 1938-37-7)	0.05	n.d.
149) Imidazolidine-2-thione; 2-imidazoline-2-thiol (CAS No.: 96-45-7)	0.05	n.d.
150) Lead di(acetate)*** (CAS No.: 301-04-2)	-	n.d.
151) Trixylyl phosphate (CAS No.: 25155-23-1)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
152) 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (CAS No.: 68515-50-4)	0.05	n.d.
153) Cadmium Chloride*** (CAS No.: 10108-64-2)	-	n.d.
154) Sodium perborate; perboric acid, sodium salt***	-	n.d.
155) Sodium peroxometaborate*** (CAS No.: 7632-04-4)	-	n.d.
156) 2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) (CAS No.:25973-55-1)	0.05	n.d.
157) 2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CASNo.:3846-71-7)	0.05	n.d.
158) 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)*** (CAS No.: 15571-58-1)	-	n.d.
159) Cadmium fluoride*** (CAS No.: 7790-79-6)	-	n.d.
160) Cadmium sulphate*** (CAS No.: 10124-36-4;31119-53-6)	-	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]-2oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)***	-	n.d.
162) 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 phthlate (CAS No.: 68515-51-5; 68648-93-1)	0.05	n.d.
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] [covering any of the individual isomers of [1] and [2] or any combination thereof]	0.05	n.d.
164) 1,3-propanesultone (CAS No.: 1120-71-4)	0.05	n.d.
165) 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS No.:3864-99-1)	0.05	n.d.
166) 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS No.: 36437-37-3)	0.05	n.d.
167) Nitrobenzene (CAS No.: 98-95-3)	0.05	n.d.
168) Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptafluorononanoic acid and its sodium and ammonium salts (CAS No.: 375-95-1; 21049-39-8; 4149-60-4)	0.05	n.d.
169) Benzo[def]chrysene (Benzo[a]pyrene) (CAS.:50-32-8)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
170) 4,4'-isopropylidenediphenol (Bisphenol A) (CAS No.: 80-05-7)	0.05	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]	0.05	n.d.
172) Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (CAS No.: 3108-42-7, 335-76-2, 3830-45-3)	0.05	n.d.
173) p-(1,1- dimethylpropyl) phenol (PTAP) (CAS No.: 80-46-6)	0.05	n.d.
174) Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (CAS No.: 355-46-4)	0.05	n.d.
175) 1,6,7,8,9,14,15,16,17, 17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	0.05	n.d.
176) Benz[a]anthracene (CAS No.: 56-55-3)	0.05	n.d.
177) Cadmium nitrate*** (CAS No.: 10325-94-7)	0.05	n.d.
178) Cadmium carbonate*** (CAS No.: 513-78-0)	-	n.d.
179) Cadmium hydroxide*** (CAS No.: 21041-95-2)	-	n.d.
180) Chrysene (CAS No.: 218-01-9)	0.05	n.d.
181) 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] (※7)	-	n.d.
182) Dicyclohexyl phthalate (DCHP) (CAS No.: 84-61-7)	0.05	n.d.
183) Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (CAS No.: 552-30-7)	0.05	n.d.
184) Benzo[ghi]perylene (CAS No.: 191-24-2)	0.05	n.d.
185) Octamethylcyclotetrasiloxane (D4) (CAS No.: 556-67-2)	0.05	n.d.
186) Decamethylcyclopentasiloxane (D5) (CAS No.: 541-02-6)	0.05	n.d.
187) Dodecamethylcyclohexasiloxane (D6) (CAS No.: 540-97-6)	0.05	n.d.
188) Disodium octaborate*** (CAS No.: 12008-41-2)	-	n.d.
189) Ethylenediamine (CAS No.: 107-15-3)	0.05	n.d.
190) Lead (Pb) (CAS No.: 7439-92-1) (●)	0.005	n.d.
191) Terphenyl hydrogenated (CAS No.: 61788-32-7)	0.05	n.d.

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Test Result(s):

*Test Item(s):	RL (%)	Concentration (%)
192) 2,2-bis(4'-hydroxyphenyl)-4-methylpentane (CAS No.: 6807-17-6)	0.05	n.d.
193) Benzo[k]fluoranthene (CAS No.: 207-08-9)	0.05	n.d.
194) Fluoranthene (CAS No.: 206-44-0)	0.05	n.d.
195) Phenanthrene (CAS No.: 85-01-8)	0.05	n.d.
196) Pyrene (CAS No.: 129-00-0)	0.05	n.d.
197) 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (CAS No.: 15087-24-8)	0.05	n.d.
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)	0.05	n.d.
199) 2-methoxyethyl acetate (CAS No.: 110-49-6)	0.05	n.d.
200) 4-tert-butylphenol (CAS No.: 98-54-4)	0.05	n.d.
201) Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	0.05	n.d.
202) Diisohexyl phthalate (CAS No.: 71850-09-4)	0.05	n.d.
203) 2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (CAS No.: 119313-12-1)	0.05	n.d.
204) 2-methyl-1-(4-methylthiophenyl)-2--morpholinopropan-1-one (CAS No.: 71868-10-5)	0.05	n.d.
205) Perfluorobutane sulfonic acid (PFBS) and its salts	0.05	n.d.

* Tested by SGS lab (CC/2020/30411)

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Remarks:

1) Candidate List SVHC (2020/01/16)

<http://echa.europa.eu/web/guest/candidate-list-table>

2) In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

3) Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

4) If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

(I) a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

(II) mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

(III) a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or

(d) a substance for which there are Europe-wide workplace exposure limits

5) 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.

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Note :

1. mg/kg = ppm; 0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit
3. RL = Reporting Limit
4. (*1): Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
5. (*2): Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
6. F Parameter Conversion Table: Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
7. Classification : Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
8. " - " = Not Regulated
9. (*): conc. of Sodium dichromate dihydrate (CAS No.: 7789-12-0) = conc. of sodium dichromate x 1.1375
10. (**): The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.
11. ***: The substance was calculated by the test results of Monoctyl Tin, Tributyl Tin, Dibutyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium respectively).

The test result is given as:

Test Item (s):	Unit	Concentration of Article	RL
Tributyl Tin (TBT)	%	n.d.	0.05
Arsenic (As) (#2)	%	n.d.	0.005
Lead (Pb)	%	n.d.	0.005
Hexavalent Chromium Cr(VI)	%	n.d.	0.005
Boron (B) (#2)	%	n.d.	0.005
Cobalt (Co)	%	n.d.	0.005
Dibutyl Tin (DBT)	%	n.d.	0.05
Barium (Ba)	%	n.d.	0.005
Diocetyl Tin (DOT)	%	n.d.	0.0231
MonoctylTin (MOT)	%	n.d.	0.0140
Cadmium (Cd)	%	n.d.	0.0050

12. (#1): Regarding the compound containing arsenic and lead, lead and arsenic are tested and used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.

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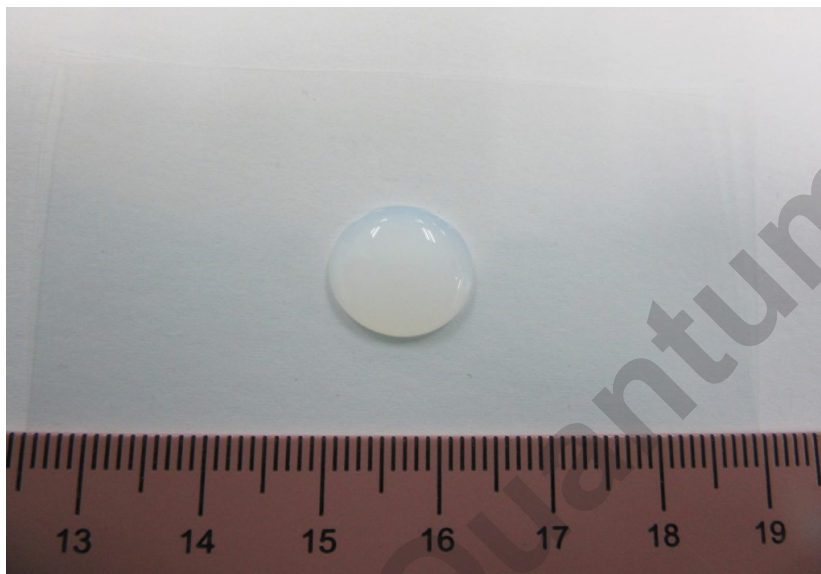
13. (#2): The extracted soluble Boron / Arsenic are detected by ICP-AES
14. (#3): TGIC is a mixture and also contains β -TGIC. According to the ECHA's technical dossier the ratio of β -TGIC to TGIC is around 1 to 10. Therefore β -TGIC is issued based on the above-mentioned ratio.
15. (#4): Only if both qualitative results of lead and silicon are positive, the test result of the compound will be calculated based on the concentration of barium.
16. (#5): Regarding the compound containing Cr(VI) and lead, lead and Cr(VI) are tested and respectively used for the calculation of the independent concentration of the compound containing Cr(VI) and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.
17. (#7): RP-HP can't be identified directly and test result can't be calculated based on specific element(s) or compound. RP-HP is identified as SVHC because of 4-HPbI, therefore 4-HPbI is analysed instead of RP-HP.
18. (●) : Since lead has a wide application, it is unlikely to determine if the detected lead comes from the lead ion, lead element or/and lead compounds. Therefore the detected total lead is used on behalf of lead.

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Sample photo:

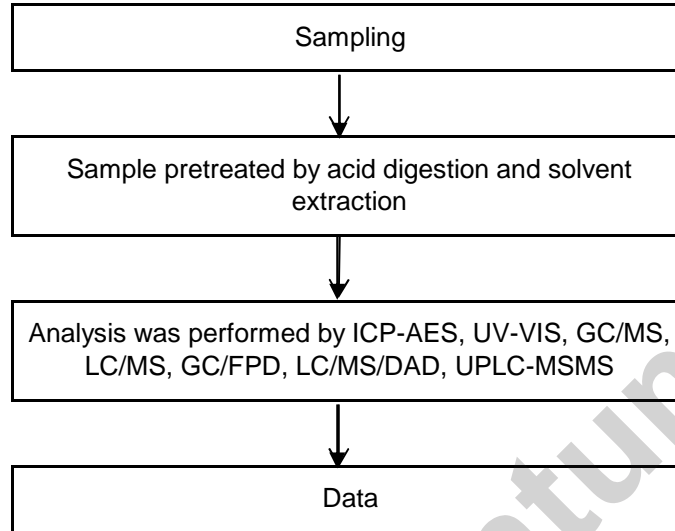
Sample Description : White liquid

SGS authenticate the photo on original report only



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Analytical flow chart of SVHC



End of Report

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