

Test Report

Report No.: AGC02928190502-001

Date: Jun.06, 2019

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Applicant:

Address:

Test site: 1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name : Double wall insulating vacuum bottle of stainless steel with bamboo cover
Model No. : TSC-473
Item No. : 8858
Country of origin : CHINA
Country of destination : EUROPE
Manufacturers :
Address :
Sample Received Date : May 31, 2019
Testing Period : May 31, 2019 to Jun.06, 2019

Test Requested: Please refer to next page(s).

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

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

Approved by: 


Liulinwen, Lewis

Technical Director



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Test Requested:

Conclusion

- | | |
|--|------------------------------|
| 1. As specified by client, refer to EU Regulation (EC) No 1907/2006 (REACH), to screen one hundred and ninety-seven (197) Substances of Very High Concern (SVHC) in the submitted sample. The list is the one that is published by European Chemicals Administration (ECHA) on January 15, 2019.
The concentrations of tested SVHC are $\leq 0.1\%$ (W/W) in the tested sample. | Pass |
| 2. As specified by client, to determine the Cadmium(Cd)content in the Submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 3. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 4. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009. | Pass |
| 5. As specified by client, to determine the Pentachlorophenol content in the submitted sample(s) with reference to entry 22, Annex XVII of the REACH Regulation (EC) No 1907/2006. | Pass |
| 6. As specified by client, to test sample with reference to Regulation 1935/2004/EC, Regulation (EU) No.10/2011&(EU)2016/1416&(EU) 2017/752 and (EU) 2018/213 for plastic:
- Overall Migration(3%(w/v) Acetic acid, 20% (v/v) Ethanol)
- Specific Migration of Primary Aromatic Amine
- Specific Migration of Heavy metals
- Migration of BPA | Pass
Pass
Pass
Pass |
| 7. As specified by client, to test sample with reference to food for compliance with Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9. for metal:
- Extractable heavy metal | Pass |
| 8. As specified by client, to test sample with reference to Regulation 1935/2004/EC and Council of Europe Resolution AP (2004) 5 and (EU) 2018/213 for silicone:
- Overall Migration(3%(w/v) Acetic acid, 10% (v/v) Ethanol, 50% (v/v) Ethanol)
- Migration of BPA | Pass
Pass |

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1. Test Result(s) of REACH:

Sample Description:

Sample Name.	Part No.	Test Point Description
Double wall insulating vacuum bottle of stainless steel with bamboo cover	1	Metal
	2	Non-metal

Test Result:

Part No.	Substances Name	Test Result(%)		RL(%)	Conclusion
		Test Data	The Whole Sample		
1	All test SVHC in candidate list	N.D.	N.D.	0.01	Pass
2		N.D.		0.01	Pass

Remarks:

- 1.If a SVHC found over 0.1%, 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.
2. The report limit (RL)= Results below this value will be stated as N.D.
3. N.D.=Not Detected (<report limit)
4. As specified by client, the submitted samples were mixed to test.

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Substance information & Method:

No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
First batch				
1	Anthracene	AfPS ProdSG:2014 GC-MS	120-12-7	204-371-1
2	4,4'-Diaminodiphenylmethane	EPA 3550C:2007& EPA 8270D:2014 GC-MS	101-77-9	202-974-4
3	Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	84-74-2	201-557-4
4	Bis(2-ethylhexyl)phthalate (DEHP)		117-81-7	204-211-0
5	Benzyl butyl phthalate (BBP)		85-68-7	201-622-7
6	Bis(tributyltin)oxide (TBTO)	ISO17353:2004(E) GC-MS	56-35-9	200-268-0
7	5-tert-butyl-2,4,6-trinitro-m-xylene	EPA 3550C:2007& EPA 8270D:2014 GC-MS	81-15-2	201-329-4
8	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified:(α -HBCDD, β -HBCDD, γ -HBCDD)		25637-99-4 3194-55-6 (134237-51-7 134237-50-6 134237-52-8)	247-148-4 221-695-9
9	Alkanes, C10-13 chloro (short chain chlorinated paraffins, SCCP)		85535-84-8	287-476-5
10	Lead hydrogen arsenate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7784-40-9	232-064-2
11	Triethyl arsenate*		15606-95-8	427-700-2
12	Diarsenic pentaoxide *		1303-28-2	215-116-9
13	Diarsenic trioxide*		1327-53-3	215-481-4
14	Cobalt dichloride*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 &EN14582:2016 ICP-OES & IC	7646-79-9	231-589-4
15	Sodium dichromate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7789-12-0 10588-01-9	234-190-3

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Second batch				
16	^① Anthracene oil	AfPS ProdSG:2014 GC-MS	90640-80-5	292-602-7
17	^① Anthracene oil, anthracene paste, distn. Lights		91995-17-4	295-278-5
18	^① Anthracene oil, anthracene paste, anthracene fraction		91995-15-2	295-275-9
19	^① Anthracene oil, anthracene-low		90640-82-7	292-604-8
20	^① Anthracene oil, anthracene paste		90640-81-6	292-603-2
21	Diisobutyl phthalate (DIBP)	EN 14372:2004 GC-MS	84-69-5	201-553-2
22	2,4-Dinitrotoluene (2,4-DNT)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	121-14-2	204-450-0
23	^② Lead chromate	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7758-97-6	231-846-0
24	^② Lead chromate molybdate sulphate red (C.I. Pigment Red 104) ***		12656-85-8	235-759-9
25	^② Lead sulfochromate yellow (C.I. Pigment Yellow 34)		1344-37-2	215-693-7
26	^① Pitch, coal tar, high temp.	AfPS ProdSG:2014 GC-MS	65996-93-2	266-028-2
27	Tris(2-chloroethyl) phosphate(TCEP)	EPA 3540C:1996& EPA 8270D:2014 GC-MS	115-96-8	204-118-5
28	Acrylamide	EPA 3550C:2007& EPA 8321B:2007 HPLC	79-06-1	201-173-7
Third batch				
29	Trichloroethylene	EPA 3550C:2007& EPA 8270D:2014 GC-MS	79-01-6	201-167-4
30	Boric acid*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	10043-35-3 11113-50-1	233-139-2 234-343-4

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31	Disodium tetraborate, anhydrous*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	1330-43-4 12179-04-3 1303-96-4	215-540-4
32	Tetraboron disodium heptaoxide, hydrate*		12267-73-1	235-541-3
33	Sodium chromate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES&UV-Vis	7775-11-3	231-889-5
34	Potassium chromate*		7789-00-6	232-140-5
35	Ammonium dichromate*		7789-09-5	232-143-1
36	Potassium dichromate*		7778-50-9	231-906-6
Fourth batch				
37	Chromium trioxide*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES&UV-Vis	1333-82-0	215-607-8
38	2-Methoxyethanol	EPA 3550C:2007& EPA 8270D:2014 GC-MS	109-86-4	203-713-7
39	2-Ethoxyethanol		110-80-5	203-804-1
40	Cobalt(II) diacetate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	71-48-7	200-755-8
41	Cobalt(II) carbonate*		513-79-1	208-169-4
42	Cobalt(II) dinitrate*		10141-05-6	233-402-1
43	Cobalt(II) sulphate*		10124-43-3	233-334-2
44	Acids generated from chromium trioxide and their oligomers Group containing: Chromic acid*, Dichromic acid*, Oligomers of chromic acid and dichromic acid*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7738-94-5 13530-68-2	231-801-5 236-881-5
Fifth batch				
45	2-ethoxyethyl acetate	EPA 3550C:2007& EPA 8270D:2014 GC-MS	111-15-9	203-839-2
46	Strontium chromate *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	7789-06-2	232-142-6

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47	^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	EN 14372:2004 GC-MS	68515-42-4	271-084-6
48	Hydrazine	EPA 3550C:2007& EPA 8270D:2014 GC-MS	7803-57-8 302-01-2	206-114-9
49	1-methyl-2-pyrrolidone		872-50-4	212-828-1
50	1,2,3-trichloropropane		96-18-4	202-486-1
51	^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	EN 14372:2004 GC-MS	71888-89-6	276-158-1
Sixth batch				
52	Dichromium tris(chromate) *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES & UV-Vis	24613-89-6	246-356-2
53	Potassium hydroxyoctaoxodizincate di-chromate*		11103-86-9	234-329-8
54	Pentazinc chromate octahydroxide ***	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	49663-84-5	256-418-0
55	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	EPA 3550C:2007& EPA 8321B:2007 HPLC	25214-70-4	500-036-1
56	Bis(2-methoxyethyl) phthalate (DMEP)	EN 14372:2004 GC-MS	117-82-8	204-212-6
57	2-Methoxyaniline; o-Anisidine	EPA 3550C:2007& EPA 8270D:2014 GC-MS	90-04-0	201-963-1
58	4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol)		140-66-9	205-426-2
59	1,2-Dichloroethane		107-06-2	203-458-1
60	Bis(2-methoxyethyl) ether		111-96-6	203-924-4
61	Arsenic acid*		EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7778-39-4
62	Calcium arsenate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7778-44-1	231-904-5
63	Trilead diarsenate*		3687-31-8	222-979-5
64	N,N-dimethylacetamide (DMAC)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	127-19-5	204-826-4

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
65	Phenolphthalein	EPA 3550C:2007& EPA 8321B:2007 HPLC	77-09-8	201-004-7
66	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	101-14-4	202-918-9
67	Lead azide; Lead diazide*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	13424-46-9	236-542-1
68	Lead styphnate*		15245-44-0	239-290-0
69	Lead dipicrate*		6477-64-1	229-335-2
70	^② Aluminosilicate Refractory Ceramic Fibres (RCF)**		-	-
71	^② Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**		-	-
Seventh batch				
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	112-49-2	203-977-3
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)		110-71-4	203-794-9
74	Diboron trioxide*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	1303-86-2	215-125-8
75	Lead(II)bis(methanesulfonate)*		17570-76-2	401-750-5
76	Formamide	EPA 3550C:2007& EPA 8270D:2014 GC-MS	75-12-7	200-842-0
77	1,3,5-tris(oxiranylmethyl)-1,3,5-triaz ine-2,4,6-(1H,3H,5H)-trione (TGIC)	EPA 3550C:2007& EPA 8321B:2007 HPLC	2451-62-9	219-514-3
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine- 2,4,6-(1H,3H,5H)-trione (β-TGIC)		59653-74-6	423-400-0
79	4,4'-bis(dimethylamino)benzopheno ne (Michler's ketone)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	90-94-8	202-027-5
80	N,N,N',N'-tetramethyl-4,4'-methylen edianiline (Michler's base)		101-61-1	202-959-2

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81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	EPA 3550C:2007& EPA 8321B:2007 HPLC	548-62-9	208-953-6
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		2580-56-5	219-943-6
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		6786-83-0	229-851-8
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol with \geq 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)		561-41-1	209-218-2
Eighth batch				
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	IEC 62321-6:2015 GC-MS	1163-19-5	214-604-9
86	Pentacosafuorotridecanoic acid	EPA 3550C:2007& EPA 8321B:2007 HPLC	72629-94-8	276-745-2
87	Tricosafuorododecanoic acid	EPA 3550C:2007& EPA 8321B:2007 HPLC	307-55-1	206-203-2
88	Henicosafuoroundecanoic acid		2058-94-8	218-165-4
89	Heptacosafuorotetradecanoic acid		376-06-7	206-803-4

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
90	^① 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	EPA 3550C:2007& EPA 8270D:2014 GC-MS	-	-
91	^① 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]		-	-
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	EPA 3550C:2007& EPA 8321B:2007 HPLC	123-77-3	204-650-8
93	Hexahydromethylphthalic anhydride Hexahydro-4-methylphthalic anhydride Hexahydro-1-methylphthalic anhydride Hexahydro-3-methylphthalic anhydride	EPA 3550C:2007& EPA 8270D:2014 GC-MS	25550-51-0 19438-60-9 48122-14-1 57110-29-9	247-094-1 243-072-0 256-356-4 260-566-1
94	Cyclohexane-1,2-dicarboxylic anhydride	EPA 3550C:2007& EPA 8270D:2014 GC-MS	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9
95	Methoxy acetic acid		625-45-6	210-894-6
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear		84777-06-0	284-032-2
97	Diisopentylphthalate (DIPP)		605-50-5	210-088-4
98	N-pentyl-isopentylphthalate	EN 14372:2004 GC-MS	776297-69-9	-
99	1,2-diethoxyethane	EPA 3550C:2007& EPA 8270D:2014 GC-MS	629-14-1	211-076-1
100	N,N-dimethylformamide		68-12-2	200-679-5
101	Dibutyltin dichloride (DBTC)	ISO 17353:2004(E) GC-MS	683-18-1	211-670-0
102	Acetic acid, lead salt, basic*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	51404-69-4	257-175-3
103	Trilead bis(carbonate) dihydroxide*		1319-46-6	215-290-6
104	Lead oxide sulfate*		12036-76-9	234-853-7
105	[Phthalato(2-)]dioxotrilead *		69011-06-9	273-688-5

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106	Dioxobis(stearato)trilead *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	12578-12-0	235-702-8
107	Fatty acids, C16-18, lead salts*		91031-62-8	292-966-7
108	Lead bis(tetrafluoroborate)*		13814-96-5	237-486-0
109	Lead cyanamidate*		20837-86-9	244-073-9
110	Lead dinitrate*		10099-74-8	233-245-9
111	Lead oxide (lead monoxide)*		1317-36-8	215-267-0
112	Lead tetroxide (orange lead)*		1314-41-6	215-235-6
113	Lead titanium trioxide*		12060-00-3	235-038-9
114	Lead Titanium Zirconium Oxide*		12626-81-2	235-727-4
115	² Pentalead tetraoxide sulphate*		12065-90-6	235-067-7
116	² Pyrochlore, antimony lead yellow *		8012-00-8	232-382-1
117	¹² Silicic acid, barium salt, lead-doped*		68784-75-8	272-271-5
118	Silicic acid, lead salt*		11120-22-2	234-363-3
119	Sulfurous acid, lead salt, dibasic*		62229-08-7	263-467-1
120	Tetraethyllead*		78-00-2	201-075-4
121	Tetralead trioxide sulphate*		12202-17-4	235-380-9
122	Trilead dioxide phosphonate*		12141-20-7	235-252-2
123	Furan		EPA 3550C:2007& EPA 8270D:2014 GC-MS	110-00-9
124	Methyloxirane (Propylene oxide)	EPA 3550C:2007& EPA 8270D:2014 HS-GC-MS	75-56-9	200-879-2
125	Diethyl sulphate	EPA 3550C:2007& EPA 8321B:2007 HPLC	64-67-5	200-589-6
126	Dimethyl sulphate		77-78-1	201-058-1
127	3-ethyl-2-methyl-2-(3-methylbutyl)- 1,3-oxazoli dine	EPA 3550C:2007& EPA 8270D:2014 GC-MS	143860-04-2	421-150-7
128	Dinoseb		88-85-7	201-861-7
129	4,4'-methylenedi- <i>o</i> -toluidine		838-88-0	212-658-8
130	4,4'-oxydianiline and its salts		101-80-4	202-977-0
131	4-aminoazobenzene		60-09-3	200-453-6

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
132	4-methyl- <i>m</i> -phenylenediamine (toluene-2,4-diamine)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	95-80-7	202-453-1
133	6-methoxy- <i>m</i> -toluidine (p-cresidine)		120-71-8	204-419-1
134	Biphenyl-4-ylamine		92-67-1	202-177-1
135	<i>o</i> -aminoazotoluene [(4- <i>o</i> -tolylazo- <i>o</i> -toluidine)]		97-56-3	202-591-2
136	<i>o</i> -toluidine		95-53-4	202-429-0
137	N-methylacetamide	EPA 3550C:2007& EPA 8270D:2014 GC-MS	79-16-3	201-182-6
138	1-bromopropane (n-propyl bromide)	EPA 3550C:2007& EPA 8270D:2014 HS-GC-MS	106-94-5	203-445-0
Ninth batch				
139	^① 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 3550C:2007& EPA 8270D:2014 GC-MS	-	-
140	Cadmium	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7440-43-9	231-152-8
141	Cadmium oxide*		1306-19-0	215-146-2
142	Ammonium pentadecafluorooctanoate (APFO)	EPA 3550C:2007& EPA 8321B:2007 HPLC	3825-26-1	223-320-4
143	Pentadecafluorooctanoic acid (PFOA)		335-67-1	206-397-9
144	Dipentyl phthalate (DPP)	EN 14372:2004 GC-MS	131-18-0	205-017-9
Tenth batch				
145	Cadmium sulphide *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	1306-23-6	215-147-8
146	Dihexyl phthalate(DnHP)	EN 14372:2004 GC-MS	84-75-3	201-559-5

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
147	^② Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	EPA 3550C:2007& EPA 8321B:2007 HPLC	573-58-0	209-358-4
148	^② 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
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	EPA 3550C:2007& EPA 8270D:2014 GC-MS	96-45-7	202-506-9
150	Trixylyl phosphate		25155-23-1	246-677-8
151	Lead di(acetate) *	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	301-04-2	206-104-4
Eleventh batch				
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	EN 14372:2004 GC-MS	68515-50-4	271-093-5
153	Cadmium chloride*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	10108-64-2	233-296-7
154	Sodium perborate; perboric acid, sodium salt*		-	239-172-9 234-390-0
155	Sodium peroxometaborate*		7632-04-4	231-556-4
Twelfth batch				
156	2-(2H-benzotriazol-2-yl)-4,6-ditertp entylphenol (UV-328)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	25973-55-1	247-384-8
157	2-benzotriazol-2-yl-4,6-di-tert-butyl phenol (UV-320)		3846-71-7	223-346-6
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3, 5-dithia-4-stannatetradecanoate (DOTE)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	15571-58-1	239-622-4

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
159	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 3550C:2007& EPA 8270D:2014 GC-MS	-	-
160	Cadmium fluoride*	EPA 3050B:1996& EPA 3052:1996&	7790-79-6	232-222-0
161	Cadmium sulphate*	EPA 6010C:2007 ICP-OES	10124-36-4 31119-53-6	233-331-6
Thirteenth batch				
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 phthalate (EC No. 201-559-5)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	68515-51-5 68648-93-1	271-094-0 272-013-1
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]		-	-
Fourteenth batch				
164	1,3-propanesultone	EPA 3540C:1996, GC-FID	1120-71-4	214-317-9
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	EPA 3540C:1996& EPA 8321B:2007, HPLC	3864-99-1	223-383-8
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)		36437-37-3	253-037-1
167	Nitrobenzene	EPA 3540C:1996, GC-FID	98-95-3	202-716-0
168	Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-hep tadecafluorononanoic acid and its sodium and ammonium salts	EPA 3540C:1996& EPA 8321B:2007, LC-MS	375-95-1, 21049-39-8 4149-60-4	206-801-3

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
Fifteenth batch				
169	Benzo[def]chrysene (Benzo[a]pyrene)	AfPS ProdSG:2014 GC-MS	50-32-8	200-028-5
Sixteenth batch				
170	4,4'-isopropylidenediphenol (bisphenol A)	EPA 3550C:2007& EPA 8321B:2007, HPLC	80-05-7	201-245-8
171	4-tert-pentylphenol (PTAP)	EPA 3550C:2007& EPA 8270D:2014 GC-MS	80-46-6	201-280-9
172	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]		-	-
173	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	EPA 3550C:2007& EPA 8321B:2007, HPLC	3108-42-7 335-76-2 3830-45-3	- 206-400-3 221-470-5
Seventeenth batch				
174	Perfluorohexane-1-sulphonic acid and its salts	EPA 3550C:2007& EPA 8270D:2014 GC-MS	355-46-4	206-587-1
Eighteenth batch				
175	1,6,7,8,9,14,15,16,17,17,18,18-Dode cachloropentacyclo[12.2.1.16,9.02,1 3.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	EPA 8270D:2014 GC-MS	-	-
176	Benz[a]anthracene	AfPS ProdSG:2014 GC-MS	56-55-3	200-280-6

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
177	Cadmium nitrate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	10325-94-7	233-710-6
178	Cadmium carbonate*		513-78-0	208-168-9
179	Cadmium hydroxide*		21041-95-2	244-168-5
180	Chrysene	AfPS ProdSG:2014 GC-MS	218-01-9	205-923-4
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]	EPA 8270D:2014 GC-MS	-	-
Item 182 SVHC Substance (Added by (EU) 2018/594 on April 19, 2018)				
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	EPA 8270D:2014 GC-MS	552-30-7	209-008-0
Item 183 SVHC Substance (Added by (EU) 2018/636 on April 25, 2018)				
183	Dicyclohexyl phthalate (DCHP)	EPA 8270D:2014 GC-MS	84-61-7	201-545-9
Nineteenth batch				
184	Benzo[ghi]perylene	AfPS ProdSG:2014 GC-MS	191-24-2	205-883-8
185	Decamethylcyclopentasiloxane (D5)	EPA 8270D:2014 GC-MS	541-02-6	208-764-9
186	Disodium octaborate*	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	12008-41-2	234-541-0
187	Dodecamethylcyclohexasiloxane (D6)	EPA 8270D:2014 GC-MS	540-97-6	208-762-8
188	Ethylenediamine		107-15-3	203-468-6
189	Lead	EPA 3050B:1996& EPA 3052:1996& EPA 6010C:2007 ICP-OES	7439-92-1	231-100-4

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No.	Substance Name(s)	Refer to Method/ Equipment	CAS No.	EC No.
190	Octamethylcyclotetrasiloxane (D4)	EPA 8270D:2014 GC-MS	556-67-2	209-136-7
191	Terphenyl hydrogenated		61788-32-7	262-967-7
Item 192 SVHC Substance (Added by (EU) 2018/2013 on December 18, 2018)				
192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	EPA 8270D:2014 GC-MS	15087-24-8	239-139-9
Twentieth batch				
193	2,2-bis(4'-hydroxyphenyl)-4-methyl pentane	EPA 8270D:2014 GC-MS	6807-17-6	401-720-1
194	Benzo[k]fluoranthene	AfPS ProdSG:2014 GC-MS	207-08-9	205-916-6
195	Fluoranthene		206-44-0	205-912-4
196	Phenanthrene		85-01-8	201-581-5
197	Pyrene		129-00-0	204-927-3

Note:

-*: Inorganic SVHC compounds are obtained by converting the test results of cobalt, chloride, sodium, arsenic, chromium, potassium, lead, boron, zirconium, titanium, phosphorus, calcium, zinc, strontium, molybdenum, aluminum and cadmium elements, and confirmed through the appropriate solvent extraction. At the same time, customers are suggested to check the chemical formula table, to further confirm whether above materials are contained.

-***: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation(EC) No 1272/2008).

-***: C.I.:Colour Index

-****: Light fractions from distillation

-①: In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

- ②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.

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2. Test Result(s) of Cd:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-1	1-3	1-4	1-5	
Cadmium (Cd)	IEC 62321-5:2013 ICP-OES	5	N.D.	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample

3. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)		Limit
			1-3	1-5	
Benzo[a]anthracene (BaA)	AFPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	0.5
Chrysene (CHR)		0.1	N.D.	N.D.	0.5
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	0.5
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	0.5
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	0.5
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	0.5
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	0.5
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	0.5
Sum of 8 PAHs		—	N.D.	N.D.	/
Conclusion		/	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample.

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4. Test result of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit	
			1-3	1-5		
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	0.1	
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	0.1	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	0.1	
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	0.1	
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	N.D.	0.1	
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	—	
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.		
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.		
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	0.1	
Conclusion			/	Pass	Pass	/

- Note:**
- 0.1%,w/w =1000mg/kg
 - MDL=method detection limit
 - N.D.=not detected (less than method detection limit)
 - “—”=Not regulated
 - As specified by client, only test the designated sample

5. Test Result(s) of Pentachlorophenol (PCP) Content:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			1-2	
Pentachlorophenol (PCP)	EPA 8270D:2014 GC-MS	5	N.D.	1000
Conclusion		/	Pass	/

- Note:**
- MDL=Method Detection Limit
 - N.D.=Not Detected(less than method detection limit)
 - As specified by client, only test the designated sample

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6.1. Test result of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-3	
3%(w/v) Acetic acid	70°C, 2h	5	N.D.	10
20% (v/v) Ethanol		5	N.D.	10
Conclusion	/	/	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

6.2. Test result of Special Migration of Primary Aromatic Amine

Unit: mg/kg

Test Solution	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1-3	
3% (w/v) Acetic acid	70°C, 2h/GC-MS	0.01	N.D.	0.01
Conclusion	/	/	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

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6.3. Test result of Special Migration of Heavy metals

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3% (w/v) Acetic acid	
			1-3	
Aluminum (Al) (M)	70°C, 2h / ICP-OES	0.5	N.D.	1
Barium (Ba) (M)		0.25	N.D.	1
Cobalt (Co) (M)		0.01	N.D.	0.05
Copper (Cu) (M)		0.25	N.D.	5
Iron (Fe) (M)		0.25	N.D.	48
Lithium (Li) (M)		0.5	N.D.	0.6
Manganese (Mn) (M)		0.25	N.D.	0.6
Zinc (Zn) (M)		0.5	N.D.	5
Nickel (Ni) (M)		0.01	N.D.	0.02
Conclusion	/	/	Pass	/

Note: 1. N.D.= not detected (less than method detection limit)
 2. M= Migration
 3. MDL= method detection limit

6.4. Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)	Limit
			3% (w/v) Acetic acid	
			1-3	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)
 2. MDL=method detection limit

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For metal
7.1. Test result of Extractable heavy metal

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1 st + 2 nd extractives	
			1-4	
Barium (Ba)	Artificial tap water, 70°C, 2h ICP-OES	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminum (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)		0.005	N.D.	0.07
Nickel (Ni)		0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)	0.01	N.D.	0.07	
Conclusion		/	Pass	/

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Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3 rd extractives	
			1-4	
Barium (Ba)	Artificial tap water, 70°C, 2h ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminum (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion		/	Pass	/

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Note:

1. N.D.=Not Detected(less than method detection limit)
2. MDL= method detection limit
3. As specified by client, only test the designated sample.

Remark:

Results from all three extractives are to be considered for compliance:

- (1). Result of 3rd extractive shall not exceed the SRL;
- (2). Sum of result of 1st and 2nd extractives shall not exceed 7 times of SRL.

For silicone
8.1. Test result of Overall Migration

 Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-5	
3%(w/v) Acetic acid	70°C, 2h	5	N.D.	10
20% (v/v) Ethanol		5	N.D.	10
Conclusion	/	/	Pass	/

- Note:** 1. N.D.=not detected (less than method detection limit)
 2. MDL=method detection limit

8.2. Test result of Migration of BPA

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)	Limit
			3% (w/v) Acetic acid	
			1-5	
Migration of BPA	70°C, 2h/ LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Pass	/

- Note:** 1. N.D.=not detected (less than method detection limit)
 2. MDL=method detection limit

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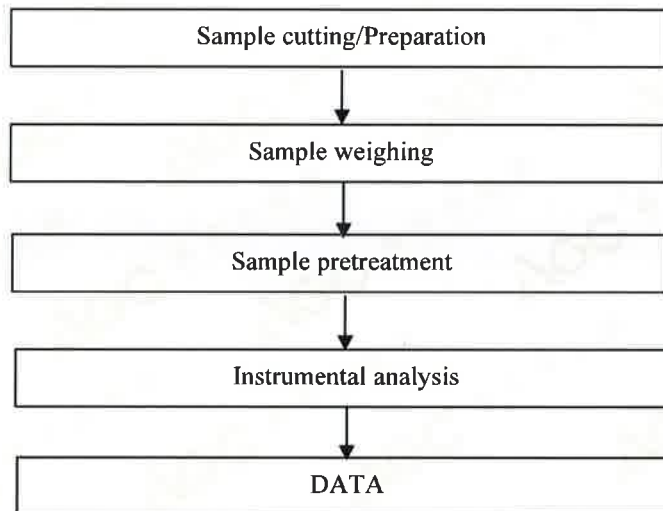
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Sample Description

1-1	201 S/S lid
1-2	Bamboo
1-3	Grey PP lid
1-4	304 S/S body
1-5	White silicone sealing

Test Flow Chart

1.For REACH



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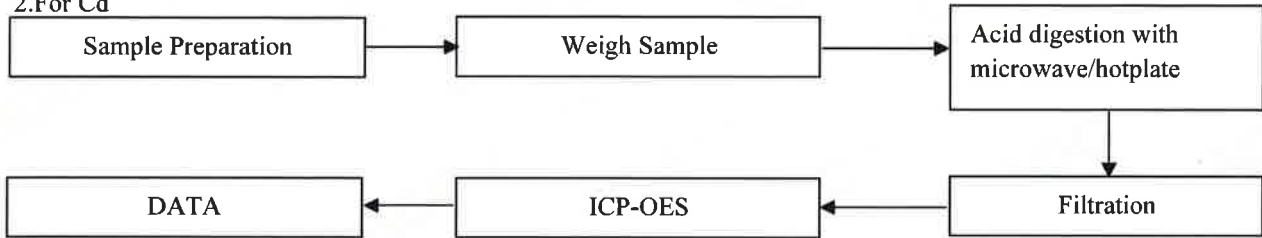
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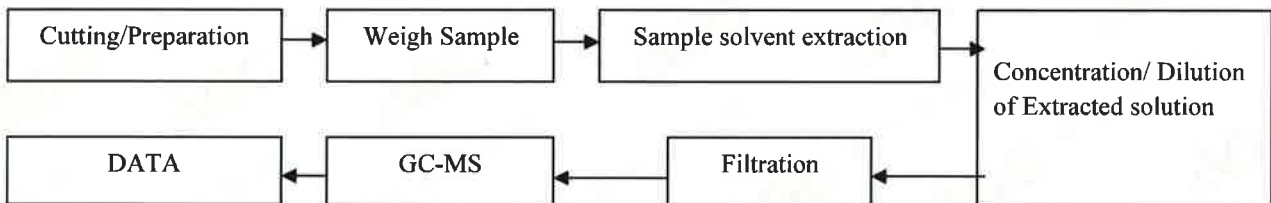
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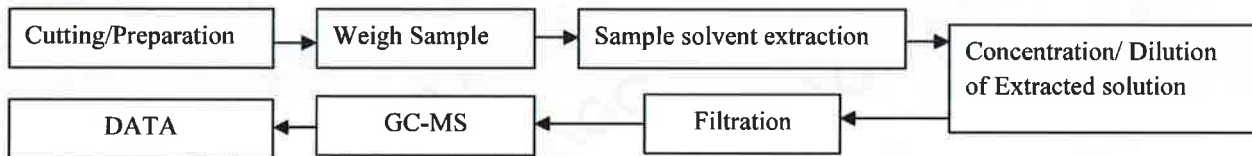
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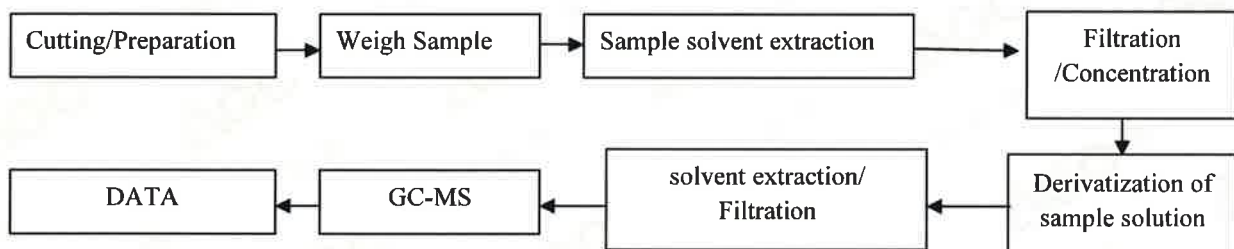
3. For PAHs



4. For phthalates



5. For Pentachlorophenol



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The photo of the sample



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*** End of Report***

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