

SVHC Assessment Report

Number : TWNC00906444

Applicant: Jackcon Capacitor Electronics Co., Ltd.
5F., No.90, Shingde Road,
Sanchung Dist., New Taipei City, 24158,
Taiwan

Issue Date : Aug 12, 2020

Sample Description:

One (1) Group of Submitted Samples Said To Be :
Sample Description : AL. ELECTROLYTIC CAPACITORS FULL RANGE
Date Sample Received : Jul 31, 2020
Date Test Started : Jul 31, 2020

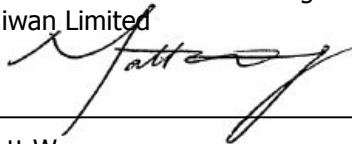
Test Conducted:

As requested by the applicant, the submitted samples were dismantled and sampled to composite test based on weight ratio between the respectively dismantled materials. For details, please refer to attached pages.

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Submitted Samples	The Obligation to Communicate Information on Substances of Very High Concern (SVHC) in Articles – As per article 33(1) to regulation (EC) No. 1907/2006 (REACH)	See Test Conducted

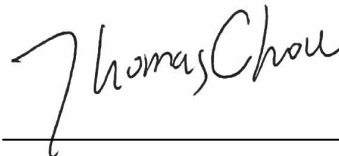
Authorized By:
On behalf of Intertek Testing Services
Taiwan Limited



Matt Wang
Sr. Manager



Signed by:



Thomas Chou
Manager



Test Conducted :

Information on Regulation:

1. Definition of Article (Article 3(3) to REACH Regulation)
 - (a) Article means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.
 - (b) The judgment of article shall adopt to Court of Justice of the European Union Press Release No 100/15 on Sep 10, 2015.
2. Legal Obligations (Article 33 to REACH Regulation)
 - (a) EU and EEA producers and importers of articles have a legal obligation to submit a notification to ECHA with regard to any substance on the Candidate List in their articles if both the following conditions are met:
 - the SVHC is present in its relevant article above a concentration of 0.1% weight by weight, and
 - the SVHC is present in its relevant article in quantities totaling over 1 tonnage per year.
 - (b) EU and EEA suppliers of articles which contain SVHC in a concentration above 0.1% (w/w) shall provide the recipient or consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that SVHC. The relevant information shall be provided, free of charge, within 45 days of receipt of the request.

Test Summary

1. Test Method (by Intertek in-house method):
 - (a) By acid digestion or aqueous extraction method and the relevant elements were determined by ICP-OES.
 - (b) Further confirmation test was performed by UV-Vis (non-metal part) or spot test (metal part) for Cr(VI).
 - (c) By solvent extraction method and the relevant compounds were determined by GC-MS, GC-ECNI-MS, HPLC-DAD or LC-MS-MS.
2. Test Result:
(Only list the SVHC which in a concentration above detection limit)

No.	Substance Name	Result (ppm)
		Mixed all kinds of submitted samples
30	Boric acid	1499(#)
31	Disodium tetraborate, anhydrous	1219(#)
32	Tetraboron disodium heptaoxide, hydrate	2311(#)
74	Diboron trioxide	844(#)
154	Sodium perborate; Perboric acid, sodium salt	3730(#)
155	Sodium peroxometaborate	1983(#)
186	Disodium octaborate	2500(#)

Remarks:

ppm = Parts per million = mg/kg

Detection limit = 100 ppm (for each compound)

= A possibility exists that the substance may be present in the tested components. However, the content of the substance has calculated with the content of boron (B).



Test Conducted :

Appendix - 209 Substances of Very High Concern (SVHC) in the Candidate List

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
1st SVHC in the Candidate List (2008.10)				
1	Cobalt dichloride	231-589-4	7646-79-9	Carcinogenic Mutagenic
2	Diarsenic pentaoxide	215-116-9	1303-28-2	Carcinogenic
3	Diarsenic trioxide	215-481-4	1327-53-3	Carcinogenic
4	Lead hydrogen arsenate	232-064-2	7784-40-9	Carcinogenic TRC
5	Triethyl arsenate	427-700-2	15606-95-8	Carcinogenic
6	Sodium dichromate, dihydrate	234-190-3	7789-12-0	Carcinogenic Mutagenic TRC
7	Bis (tributyltin)oxide (TBTO)	200-268-0	56-35-9	PBT
8	Anthracene	204-371-1	120-12-7	PBT
9	4,4'-Diaminodiphenylmethane (MDA)	202-974-4	101-77-9	Carcinogenic
10	Dibutyl phthalate (DBP)	201-557-4	84-74-2	TRC, EDP
11	5- <i>tert</i> -Butyl-2,4,6-trinitro- <i>m</i> -xylene (musk xylene)	201-329-4	81-15-2	vPvB
12	Bis(2-ethylhexyl) phthalate (DEHP)	204-211-0	117-81-7	TRC, EDP
13	Hexabromocyclododecane (HBCDD)	247-148-4 221-695-9	25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8	PBT
14	Benzyl butyl phthalate (BBP)	201-622-7	85-68-7	TRC, EDP
15	Short chain chlorinated parafins (C10-13)	287-476-5	85535-84-8	PBT
2nd SVHC in the Candidate List (2009.09)				
16	Anthracene oil	292-602-7	90640-80-5	PBT, vPvB
17	Anthracene oil, anthracene paste, distn. Light	295-278-5	91995-17-4	PBT, vPvB, Carcinogenic Mutagenic
18	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	PBT, vPvB, Carcinogenic Mutagenic
19	Anthracene oil, anthracene-low	292-604-8	90640-82-7	PBT, vPvB, Carcinogenic Mutagenic
20	Anthracene oil, anthracene paste	292-603-2	90640-81-6	PBT, vPvB, Carcinogenic Mutagenic
21	Coal tar pitch, high temp.	266-028-2	65996-93-2	PBT, vPvB, Carcinogenic
22	Acrylamide	201-173-7	79-06-1	Carcinogenic Mutagenic
23	2,4-Dinitrotoluene	204-450-0	121-14-2	Carcinogenic
24	Diisobutyl phthalate (DIBP)	201-553-2	84-69-5	TRC, EDP



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
2nd SVHC in the Candidate List (2009.09)				
25	Lead chromate	231-846-0	7758-97-6	Carcinogenic TRC
26	Lead chromate molybdate sulphate red (C.I. Pigment red 104)	235-759-9	12656-85-8	Carcinogenic TRC
27	Lead sulfochromate yellow (C.I. Pigment yellow 34)	215-693-7	1344-37-2	Carcinogenic TRC
28	Tris(2-chloroethyl) phosphate (TCEP)	204-118-5	115-96-8	TRC
3rd SVHC in the Candidate List (2010.03)				
29	Trichloroethylene	201-167-4	79-01-6	Carcinogenic
30	Boric acid	233-139-2 234-343-4	10043-35-3 11113-50-1	TRC
31	Disodium tetraborate, anhydrous	215-540-4	1330-43-4 12179-04-3 1303-96-4	TRC
32	Tetraboron disodium heptaoxide, hydrate	235-541-3	12267-73-1	TRC
33	Sodium chromate	231-889-5	7775-11-3	Carcinogenic Mutagenic TRC
34	Potassium chromate	232-140-5	7789-00-6	Carcinogenic Mutagenic
35	Ammonium dichromate	232-143-1	7789-09-5	Carcinogenic Mutagenic TRC
36	Potassium dichromate	231-906-6	7778-50-9	Carcinogenic Mutagenic TRC
4th SVHC in the Candidate List (2010.12)				
37	Cobalt(II) sulphate	233-334-2	10124-43-3	Carcinogenic TRC
38	Cobalt(II) dinitrate	233-402-1	10141-05-6	Carcinogenic TRC
39	Cobalt(II) carbonate	208-169-4	513-79-1	Carcinogenic TRC
40	Cobalt(II) diacetate	200-755-8	71-48-7	Carcinogenic TRC
41	2-Methoxyethanol	203-713-7	109-86-4	TRC
42	2-Ethoxyethanol	203-804-1	110-80-5	TRC
43	Chromium trioxide	215-607-8	1333-82-0	Carcinogenic Mutagenic
44	Acids generated from chromium trioxide and their oligomers: Chromic acid Dichromic acid Oligomers of chromic acid and dichromic acid	231-801-5 236-881-5 --	7738-94-5 13530-68-2 --	Carcinogenic



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
5th SVHC in the Candidate List (2011.06)				
45	2-Ethoxyethyl acetate (2-EEA)	203-839-2	111-15-9	TRC
46	Strontium chromate	232-142-6	7789-06-2	Carcinogenic
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUF)	271-084-6	68515-42-4	TRC
48	Hydrazine	206-114-9	7803-57-8 302-01-2	Carcinogenic
49	1-Methyl-2-pyrrolidone (NMP)	212-828-1	872-50-4	TRC
50	1,2,3-Trichloropropane	202-486-1	96-18-4	Carcinogenic TRC
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	276-158-1	71888-89-6	TRC
6th SVHC in the Candidate List (2011.12)				
52	Dichromium tris(chromate)	246-356-2	24613-89-6	Carcinogenic
53	Potassium hydroxyoctaoxidizincatedi-chromate	234-329-8	11103-86-9	Carcinogenic
54	Pentazinc chromate octahydroxide	256-418-0	49663-84-5	Carcinogenic
55	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	500-036-1	25214-70-4	Carcinogenic
56	Aluminosilicate refractory ceramic fibres (RCF)	--	--	Carcinogenic
57	Zirconia aluminosilicate refractory ceramic fibres (Zr-RCF)	--	--	Carcinogenic
58	Bis(2-methoxyethyl)phthalate(DMEP)	204-212-6	117-82-8	TRC
59	2-Methoxyaniline(<i>o</i> -Anisidine)	201-963-1	90-04-0	Carcinogenic
60	4-(1,1,3,3-Tetramethylbutyl)phenol, (4- <i>tert</i> -Octylphenol)	205-426-2	140-66-9	PBT, vPvB
61	1,2-Dichloroethane	203-458-1	107-06-2	Carcinogenic
62	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	TRC
63	Arsenic acid	231-901-9	7778-39-4	Carcinogenic
64	Calcium arsenate	231-904-5	7778-44-1	Carcinogenic
65	Trilead diarsenate	222-979-5	3687-31-8	Carcinogenic TRC
66	N,N-Dimethylacetamide (DMAC)	204-826-4	127-19-5	TRC
67	4,4'-Methylenebis(2-chloroaniline) (MOCA)	202-918-9	101-14-4	Carcinogenic
68	Phenolphthalein	201-004-7	77-09-8	Carcinogenic
69	Lead azide (Lead diazide)	236-542-1	13424-46-9	TRC
70	Lead styphnate	239-290-0	15245-44-0	TRC
71	Lead dipicrate	229-335-2	6477-64-1	TRC



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
7th SVHC in the Candidate List (2012.06)				
72	1,2-Bis(2-methoxyethoxy)ethane (TEGDME; Triglyme)	203-977-3	112-49-2	TRC
73	1,2-Dimethoxyethane; Ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	TRC
74	Diboron trioxide	215-125-8	1303-86-2	TRC
75	Formamide	200-842-0	75-12-7	TRC
76	Lead(II) bis(methanesulfonate)	401-750-5	17570-76-2	TRC
77	1,3,5-Tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (TGIC)	219-514-3	2451-62-9	Mutagenic
78	1,3,5-Tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	423-400-0	59653-74-6	Mutagenic
79	4,4'-Bis(dimethylamino)benzophenone (Michler's ketone)	202-027-5	90-94-8	Carcinogenic
80	N,N,N',N'-Tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	Carcinogenic
81	{4-[[4-Anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene} dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	219-943-6	2580-56-5	Carcinogenic
82	{4-[4,4'-Bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene}dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	208-953-6	548-62-9	Carcinogenic
83	4,4'-Bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	209-218-2	561-41-1	Carcinogenic
84	α, α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	229-851-8	6786-83-0	Carcinogenic



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
8th SVHC in the Candidate List (2012.12)				
85	Bis(pentabromophenyl) ether (DecaBDE)	214-604-9	1163-19-5	PBT, vPvB
86	Pentacosafuorotridecanoic acid	276-745-2	72629-94-8	vPvB
87	Tricosafuorododecanoic acid	206-203-2	307-55-1	vPvB
88	Henicosafuoroundecanoic acid	218-165-4	2058-94-8	vPvB
89	Heptacosafuorotetradecanoic acid	206-803-4	376-06-7	vPvB
90	4-(1,1,3,3-Tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	--	--	Equivalent concern
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	-	-	Equivalent concern
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	Equivalent concern
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	201-604-9, 236-086-3, 238-009-9	85-42-7, 13149-00-3, 14166-21-3	Equivalent concern
94	Hexahydromethylphthalic anhydride (MHPA-1) Hexahydro-4-methylphthalic anhydride (MHPA-2) Hexahydro-1-methylphthalic anhydride (MHPA-3) Hexahydro-3-methylphthalic anhydride (MHPA-4)	247-094-1, 243-072-0, 256-356-4, 260-566-1	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	Equivalent concern
95	Methoxy acetic acid	210-894-6	625-45-6	TRC
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (PIPP)	284-032-2	84777-06-0	TRC
97	Diisopentyl phthalate (DIPP)	210-088-4	605-50-5	TRC
98	<i>n</i> -Pentyl- <i>iso</i> -pentyl phthalate (PIPP)	--	776297-69-9	TRC
99	1,2-Diethoxyethane	211-076-1	629-14-1	TRC
100	N,N-Dimethylformamide; Dimethyl formamide (DMFA)	200-679-5	68-12-2	TRC
101	Dibutyltin dichloride (DBTC)	211-670-0	683-18-1	TRC
102	Acetic acid, lead salt, basic	257-175-3	51404-69-4	TRC
103	Basic lead carbonate (Trilead bis(carbonate) dihydroxide)	215-290-6	1319-46-6	TRC
104	Lead oxide sulfate (Basic lead sulfate)	234-853-7	12036-76-9	TRC
105	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)	273-688-5	69011-06-9	TRC
106	Dioxobis(stearato)trilead	235-702-8	12578-12-0	TRC
107	Fatty acids, C16-18, lead salts	292-966-7	91031-62-8	TRC
108	Lead bis(tetrafluoroborate)	237-486-0	13814-96-5	TRC
109	Lead cyanamide	244-073-9	20837-86-9	TRC
110	Lead dinitrate	233-245-9	10099-74-8	TRC
111	Lead oxide (Lead monoxide)	215-267-0	1317-36-8	TRC
112	Lead tetroxide (Orange lead)	215-235-6	1314-41-6	TRC
113	Lead titanium trioxide	235-038-9	12060-00-3	TRC
114	Lead titanium zirconium oxide	235-727-4	12626-81-2	TRC



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
8th SVHC in the Candidate List (2012.12)				
115	Pentalead tetraoxide sulphate	235-067-7	12065-90-6	TRC
116	Pyrochlore, antimony lead yellow	232-382-1	8012-00-8	TRC
117	Silicic acid, barium salt, lead-doped	272-271-5	68784-75-8	TRC
118	Silicic acid, lead salt	234-363-3	11120-22-2	TRC
119	Sulfurous acid, lead salt, dibasic	263-467-1	62229-08-7	TRC
120	Tetraethyllead	201-075-4	78-00-2	TRC
121	Tetralead trioxide sulphate	235-380-9	12202-17-4	TRC
122	Trilead dioxide phosphonate	235-252-2	12141-20-7	TRC
123	Furan	203-727-3	110-00-9	Carcinogenic
124	Propylene oxide; 1,2-Epoxypropane; Methyloxirane	200-879-2	75-56-9	Carcinogenic Mutagenic
125	Diethyl sulphate	200-589-6	64-67-5	Carcinogenic Mutagenic
126	Dimethyl sulphate	201-058-1	77-78-1	Carcinogenic
127	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	TRC
128	Dinoseb	201-861-7	88-85-7	TRC
129	4,4'-Methylenedi- <i>o</i> -toluidine	212-658-8	838-88-0	Carcinogenic
130	4,4'-Oxydianiline and its salts	202-977-0	101-80-4	Carcinogenic Mutagenic
131	4-Aminoazobenzene; 4-Phenylazoaniline	200-453-6	60-09-3	Carcinogenic
132	4-Methyl- <i>m</i> -phenylenediamine (2,4-Toluene-diamine)	202-453-1	95-80-7	Carcinogenic
133	6-Methoxy- <i>m</i> -toluidine (<i>p</i> -cresidine)	204-419-1	120-71-8	Carcinogenic
134	Biphenyl-4-ylamine ; 4-Aminobiphenyl	202-177-1	92-67-1	Carcinogenic
135	<i>o</i> -Aminoazotoluene	202-591-2	97-56-3	Carcinogenic
136	<i>o</i> -Toluidine; 2-Aminotoluene	202-429-0	95-53-4	Carcinogenic
137	N-Methylacetamide	201-182-6	79-16-3	TRC
138	1-Bromopropane; <i>n</i> -Propyl bromide	203-445-0	106-94-5	TRC
9th SVHC in the Candidate List (2013.06)				
139	Cadmium	231-152-8	7440-43-9	Carcinogenic Equivalent concern
140	Cadmium oxide	215-146-2	1306-19-0	Carcinogenic
141	Pentadecafluorooctanoic acid (PFOA)	206-397-9	335-67-1	TRC
142	Ammonium pentadecafluorootanoate (APFO)	223-320-4	3825-26-1	TRC
143	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]	--	--	Equivalent concern
144	Dipentyl phthalate (DPP)	205-017-9	131-18-0	TRC



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
10th SVHC in the Candidate List (2013.12)				
145	Cadmium sulphide	215-147-8	1306-23-6	Carcinogenic Equivalent concern
146	Lead di(acetate)	206-104-4	301-04-2	TRC
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)	217-710-3	1937-37-7	Carcinogenic
148	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	Carcinogenic
149	Trixylyl phosphate	246-677-8	25155-23-1	TRC
150	Dihexyl phthalate (DnHP)	201-559-5	84-75-3	TRC
151	Imidazolidine-2-thione; 2-Imidazoline-2-thiol	202-506-9	96-45-7	TRC
11th SVHC in the Candidate List (2014.06)				
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	TRC
153	Cadmium chloride	233-296-7	10108-64-2	Carcinogenic Equivalent concern Mutagenic TRC
154	Sodium perborate; Perboric acid, sodium salt	239-172-9, 234-390-0	--	TRC
155	Sodium peroxometaborate	231-556-4	7632-04-4	TRC
12th SVHC in the Candidate List (2014.12)				
156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	PBT, vPvB
157	2-Benzotriazol-2-yl-4,6-di- <i>tert</i> -butylphenol (UV-320)	223-346-6	3846-71-7	PBT, vPvB
158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	TRC
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)	--	--	TRC
160	Cadmium fluoride	232-222-0	7790-79-6	Carcinogenic Equivalent concern Mutagenic TRC
161	Cadmium sulphate	233-331-6	10124-36-4, 31119-53-6	Carcinogenic Equivalent concern Mutagenic TRC



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
13th SVHC in the Candidate List (2015.06)				
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	271-094-0 272-013-1	68515-51-5 68648-93-1	TRC
163	5- <i>sec</i> -Butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5- <i>sec</i> -Butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	--	--	vPvB
14th SVHC in the Candidate List (2015.12)				
164	Nitrobenzene	202-716-0	98-95-3	TRC
165	2,4-Di- <i>tert</i> -butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	vPvB
166	2-(2H-Benzotriazol-2-yl)-4-(<i>tert</i> -butyl)-6-(<i>sec</i> -butyl)phenol (UV-350)	253-037-1	36437-37-3	vPvB
167	1,3-Propanesultone	214-317-9	1120-71-4	Carcinogenic
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	206-801-3	375-95-1 21049-39-8 4149-60-4	TRC, PBT
15th SVHC in the Candidate List (2016.06)				
169	Benzo[def]chrysene (Benzo[a]pyrene)	200-028-5	50-32-8	Carcinogenic Mutagenic TRC, PBT, vPvB
16th SVHC in the Candidate List (2016.12)				
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	201-245-8	80-05-7	TRC, EDP
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	335-76-2 3830-45-3 3108-42-7	TRC, PBT
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]	-	-	TRC
173	<i>p</i> -(1,1-Dimethylpropyl)phenol	201-280-9	80-46-6	TRC
17th SVHC in the Candidate List (2017.07)				
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	--	--	vPvB



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
18th SVHC in the Candidate List (2018.01)				
175	Benz[a]anthracene	200-280-6	56-55-3	Carcinogenic PBT vPvB
176	Cadmium nitrate	233-710-6	10325-94-7	Carcinogenic Mutagenic STOT
177	Cadmium hydroxide	244-168-5	21041-95-2	Carcinogenic Mutagenic STOT
178	Cadmium carbonate	208-168-9	513-78-0	Carcinogenic Mutagenic STOT
179	Chrysene	205-923-4	218-01-9	Carcinogenic PBT vPvB
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octade ca-7,15-diene ("Dechlorane Plus" [™]) covering any of its individual anti- and syn-isomers or any combination thereof	--	--	vPvB
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]	--	--	EDP
19th SVHC in the Candidate List (2018.07)				
182	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2	PBT, vPvB
183	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	PBT, vPvB
184	Dodecamethylcyclohexasiloxane (D6)	208-762-8	540-97-6	PBT, vPvB
185	Lead	231-100-4	7439-92-1	TRC
186	Disodium octaborate	234-541-0	12008-41-2	TRC
187	Benzo[g,h,i]perylene	205-883-8	191-24-2	PBT, vPvB
188	Terphenyl hydrogenated	262-967-7	61788-32-7	vPvB
189	Ethylenediamine (EDA)	203-468-6	107-15-3	RSP
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride; TMA)	209-008-0	552-30-7	RSP
191	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	TRC, EDP
20th SVHC in the Candidate List (2019.01)				
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	TRC
193	Benzo[k]fluoranthene	205-916-6	207-08-9	Carcinogenic PBT, vPvB
194	Fluoranthene	205-912-4	206-44-0	PBT, vPvB
195	Phenanthrene	201-581-5	85-01-8	vPvB
196	Pyrene	204-927-3	129-00-0	PBT, vPvB
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8	EDP



Test Conducted :

No.	Substance Name	EC Number	CAS Number	Reason for Inclusion
21st SVHC in the Candidate List (2019.07)				
198	2-Methoxyethyl acetate	203-772-9	110-49-6	TRC
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	--	--	EDP
200	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--	--	Equivalent concern
201	4- <i>tert</i> -butylphenol	202-679-0	98-54-4	EDP
22nd SVHC in the Candidate List (2020.01)				
202	2-Benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	TRC
203	2-Methyl-1-(4-methylthiophenyl)-2-morpholino propan-1-one	400-600-6	71868-10-5	TRC
204	Diisohexyl phthalate	276-090-2	71850-09-4	TRC
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	--	Equivalent concern
23rd SVHC in the Candidate List (2020.06)				
206	1-vinylimidazole	214-012-0	1072-63-5	TRC
207	2-methylimidazole	211-765-7	693-98-1	TRC
208	Butyl 4-hydroxybenzoate	202-318-7	94-26-8	EDP
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	TRC

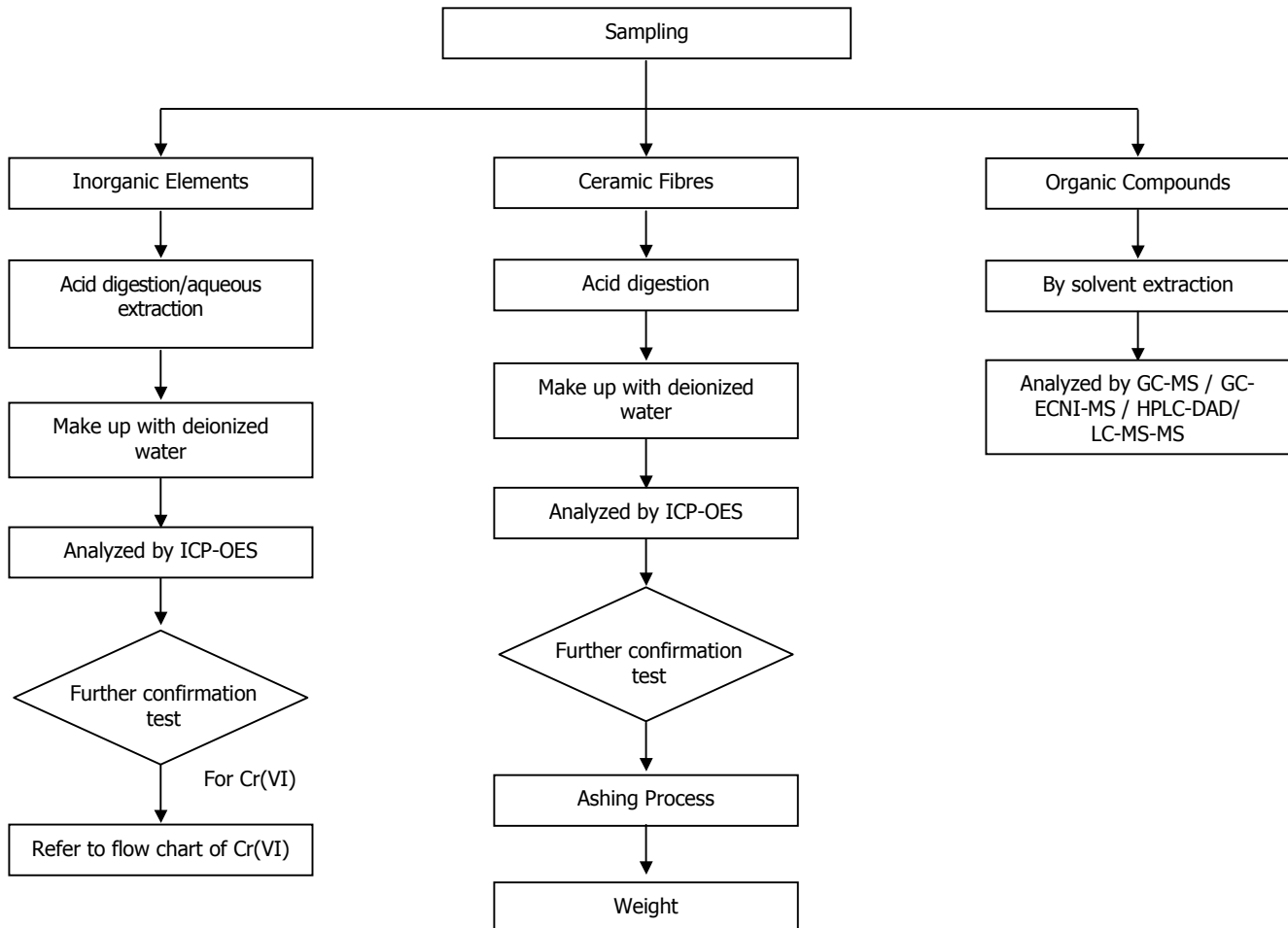
Remarks:

- TRC = Toxic for reproduction
- PBT = Persistent, bioaccumulative and toxic
- vPvB = Very Persistent and Very bioaccumulative
- EDP = Endocrine disrupting properties
- STOT = Specific target organ toxicity after repeated exposure
- RSP = Respiratory sensitising properties
- ** = The Dec 19, 2011 'Aluminosilicate Refractory Ceramic Fibres' and 'Zirconia Aluminosilicate Refractory Ceramic Fibres' listings open the scope of these items from the original listing (Jan 1, 2010). Although these two modified substances are counted as additions to the existing list, they are revisions of the original substance listings to ensure all hazardous versions are covered. As of Jun 18, 2012, these entries have been consolidated; there is now one entry for 'Aluminosilicate Refractory Ceramic Fibres' and one entry for 'Zirconia Aluminosilicate Refractory Ceramic Fibres'.



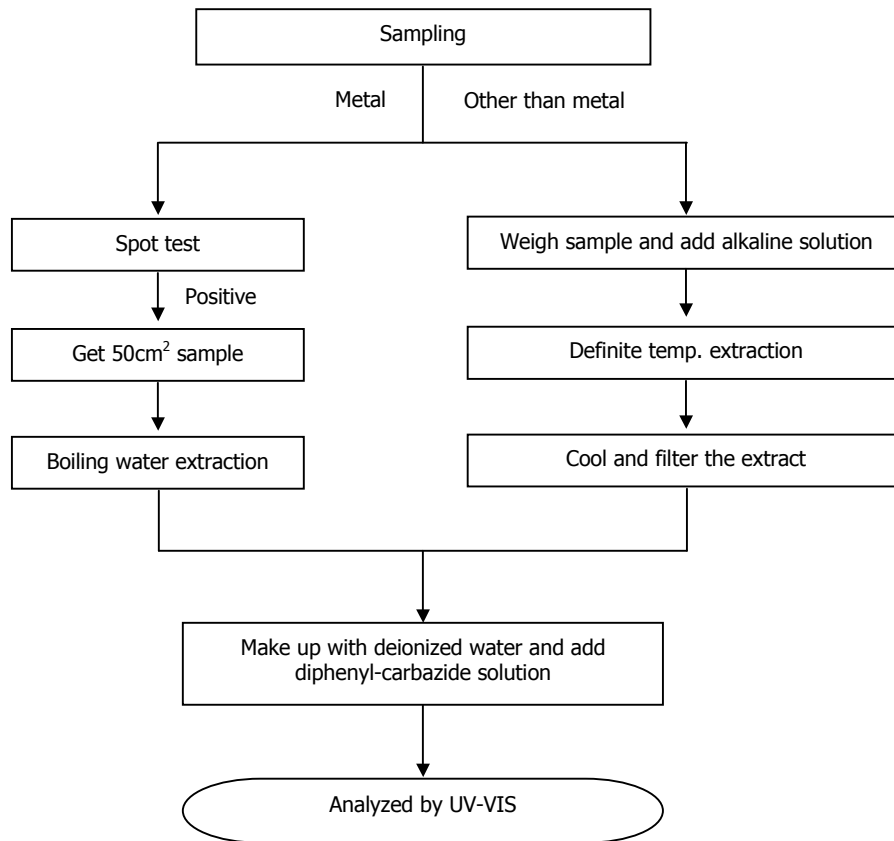
Test Conducted :

Measurement Flowchart:



Test Conducted :

Test for Chromium (VI) Content



Sample photo:

Submitted Sample



Tested Component



End of Report

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