



Pony Testing International Group

**Test Report**  
(SVHC)

NO.: H01143045604D

Date: Jan 24, 2013

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Applicant:

Shun Tai Precision Rubber (Shenzhen) Co., Ltd.

Address:

1<sup>st</sup> Industrial Zone, Fumin, Guanlan Town, BaoAn District, Shenzhen

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

Sample Name:

EPDM

Sample Received Date:

Jan 14, 2013

Testing Period:

Jan 14, 2013 To Jan 24, 2013

Reference specification:

Very High Concern (SVHC) testing Based on the list published by European Chemicals Agency (ECHA) on 28 Oct 2008, 13 Jan 2010, 30 Mar 2010, 18 Jun 2010, 15 Dec 2010, 20 Jun 2011, 19 Dec 2011, 18 Jun 2012 and 19 Dec 2012 regarding Regulation (EC) No 1907/2006 concerning the REACH. Screening tests based on customer requirements.

Test result(s):

Please refer to next page(s)

Summary:

According to the analytical results, concentrations of 138 SVHC substances are less than 0.1% in the submitted sample.

Approved by:

Code: xs523b17

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## Reference Methods:

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification
1	Anthracene	Refer to EPA 3540C:1996 & EPA 8270D:2007, GC-MS	PBT
2	Benzyl butyl phthalate	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction, cat.2
3	Dibutyl phthalate	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction, cat.2
4	Bis (2-ethylhexyl) phthalate (DEHP)	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction, cat.2
5	HBCDD( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	Refer to EPA 3540C:1996, GC-MS	PBT
6	4,4'- Diaminodiphenylmethane	Refer to EN 14362-1:2012, GC-MS	Carcinogen, cat. 2
7	Short Chain Chlorinated Paraffins	Refer to EPA 3540C:1996, GC-MS	PBT; vPvB
8	Musk xylene	Refer to EPA 3540C:1996, GC-MS	vPvB
9	Triethyl arsenate	Refer to EPA 3052:1996, ICP-OES	Carcinogen, cat.1
10	Bis(tributyltin)oxide	Refer to DIN EN ISO 17353:2005, GC-MS	PBT
11	Cobalt dichloride <sup>(1)</sup>	Refer to EPA 3052:1996 & EN14582:2007, ICP-OES & IC	CMR
12	Diarsenic pentaoxide <sup>(1)</sup>	Refer to EPA 3052:1996, ICP-OES	Carcinogen, cat.1
13	Diarsenic trioxide <sup>(1)</sup>	Refer to EPA 3052:1996, ICP-OES	Carcinogen, cat.1
14	Sodium dichromate <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 3060A:1996 & EPA 9056A:2007, ICP-OES & UV-Vis	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
15	Lead hydrogen arsenate <sup>(1)</sup>	Refer to EPA 3052:1996, ICP-OES	Carcinogen, cat.1; Toxic for reproduction, cat.1

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16	2,4-Dinitrotoluene	Pony-In-house method, GC-MS	Carcinogen, cat.2
17	Anthracene oil <sup>(2)</sup>	Pony-In-house method, GC-MS	PBT
18	Anthracene oil, anthracene paste, distn. Lights <sup>(2)</sup>	Pony-In-house method, GC-MS	PBT
19	Anthracene oil, anthracene paste, anthracene fraction <sup>(2)</sup>	Pony-In-house method, GC-MS	PBT
20	Anthracene oil, anthracene-low <sup>(2)</sup>	Pony-In-house method, GC-MS	PBT
21	Anthracene oil, anthracene paste <sup>(2)</sup>	Pony-In-house method, GC-MS	PBT
22	Diisobutyl phthalate (DIBP)	Refer to EPA 8061A:1996, GC-MS	Toxic for reproduction, cat.2
23	Lead chromate <sup>(3)</sup>	Refer to EPA 3052:1996 & EPA 3060A:1996, ICP-OES & UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) <sup>(3)</sup>	Refer to EPA 3052:1996 & EPA 3060A:1996, ICP-OES & UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34) <sup>(3)</sup>	Refer to EPA 3052:1996 & EPA 3060A:1996, ICP-OES & UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1
26	Tris(2-chloroethyl)phosphate (TCEP)	Pony-In-house method, GC-MS	Toxic for reproduction, cat.2
27	Coal tar pitch, high temperature <sup>(2)</sup>	Pony-In-house method, GC-MS	PBT; Carcinogen, cat.2
28	Acrylamide	Pony-In-house method, HPLC	Carcinogen, cat.2; Mutagen, cat.2

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29	Trichloroethylene	Pony-In-house method, GC-MS	Carcinogen, cat.2
30	Boric Acid <sup>(1)</sup>	Pony-In-house method, ICP-OES	Toxic for reproduction, cat.2
31	Disodium Tetraborate, Anhydrous <sup>(1)</sup>	Pony-In-house method, ICP-OES	Toxic for reproduction, cat.2
32	Tetraboron Disodium Heptaoxide, Hydrate <sup>(1)</sup>	Pony-In-house method, ICP-OES	Toxic for reproduction, cat.2
33	Sodium Chromate <sup>(1)</sup>	Pony-In-house method, UV-Vis	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
34	Potassium Chromate <sup>(1)</sup>	Pony-In-house method, UV-Vis	Carcinogen, cat.2; Mutagen, cat.2
35	Potassium Dichromate <sup>(1)</sup>	Pony-In-house method, UV-Vis	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
36	Ammonium dichromate <sup>(1)</sup>	Pony-In-house method, UV-Vis	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
37	Cobalt(II) sulfate <sup>(1)</sup>	Pony-In-house method, ICP-OES	Carcinogen, cat.2; Mutagen, cat.3; Toxic for reproduction, cat.2
38	Cobalt(II) dinitrate <sup>(1)</sup>	Pony-In-house method, ICP-OES	Carcinogen, cat.2; Mutagen, cat.3; Toxic for reproduction, cat.2CMR
39	Cobalt(II) carbonate <sup>(1)</sup>	Pony-In-house method, ICP-OES	CMR
40	Cobalt(II) diacetate <sup>(1)</sup>	Pony-In-house method, ICP-OES	CMR
41	2-Methoxyethanol	Pony-In-house method, GC	CMR
42	2-Ethoxyethanol	Pony-In-house method, GC	CMR
43	Chromium trioxide <sup>(1)</sup>	Pony-In-house method, UV-Vis	CMR1,2

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44	chromium hemitrioxide and acid from it's oligomer <sup>(1)</sup>	Chromic acid	Pony-In-house method, UV-Vis	CMR
		Dichromic acid	Pony-In-house method, UV-Vis	CMR
		Oligomers of chromic acid and dichromic acid	Pony-In-house method, UV-Vis	CMR2
45	2-ethoxyethyl acetate	Pony-In-house method, GC	CMR	
46	strontium chromate <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR	
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters <sup>(2)</sup>	Refer to EPA 8061A:1996, GC-MS	CMR	
48	Hydrazine	Pony-In-house method, UV-Vis	CMR	
49	1-methyl-2-pyrrolidone	Refer to EPA 8270D:2007, GC-MS	CMR	
50	1,2,3-trichloropropane	Refer to EPA 5021:1996, GC	CMR	
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich <sup>(2)</sup>	Refer to EPA 8061A:1996, GC-MS	CMR	

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52	Dichromium tris(chromate) <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
53	Potassium hydroxyoctaoxodizincatedi-chromate <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
54	Pentazinc chromate octahydroxide <sup>(3)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
55	Aluminosilicate Refractory Ceramic Fibres (RCF) <sup>(3)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) <sup>(3)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
57	Formaldehyde, oligomeric reaction products with aniline <sup>(3)</sup>	Pony-In-house method, FTIR	CMR
58	Bis(2-methoxyethyl) phthalate	Refer to EPA 8061A:1996, GC-MS	CMR
59	2-Methoxyaniline; o-Anisidine	Refer to EN 14362-1:2012, GC-MS	CMR
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	Pony-In-house method, GC-MS	Equivalent concern
61	1,2-Dichloroethane	Refer to EPA 5021:1996, GC	CMR
62	Bis(2-methoxyethyl) ether	Refer to EPA 8270D:2007, GC-MS	CMR
63	Arsenic acid <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
64	Calcium arsenate <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
65	Trilead diarsenate <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
66	N,N-dimethylacetamide	Refer to EPA 8270D:2007, GC-MS	CMR
67	Phenolphthalein	Pony-In-house method, HPLC	CMR
68	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	Refer to EN 14362-1:2012, GC-MS	CMR
69	Lead diazide, Lead azide <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
70	Lead styphnate <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR
71	Lead dipicrate <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	CMR

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72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	Refer to EPA 8270D:2007, GC-MS	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	Refer to EPA 8270D:2007, GC-MS	Toxic for reproduction
74	Diboron trioxide <sup>(1)</sup>	Refer to EPA 3052:1996 & EPA 6010C:2007, ICP-OES	Toxic for reproduction
75	Formamide	Refer to EPA 8270D:2007, GC-MS	Toxic for reproduction
76	Lead(II) bis(methanesulfonate) <sup>(1)</sup>	Refer to EPA 3052:1996, AAS	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	Pony-In-house method, GC-MS	Mutagen
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) <sup>(4)</sup>	Refer to EPA 8270D:2007, GC-MS	Mutagen
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	Refer to EPA 8270D:2007, GC-MS	Carcinogen
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	Refer to EPA 8270D:2007, GC-MS	Carcinogen
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	Pony-In-house method, HPLC	Carcinogen
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26)	Pony-In-house method, HPLC	Carcinogen
83	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	Pony-In-house method, HPLC	Carcinogen
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	Pony-In-house method, HPLC	Carcinogen

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85	Bis(pentabromophenyl) ether (DecaBDE)	Refer to IEC 62321:2008 GC/MS	PBT vPvB
86	Pentacosafuorotridecanoic acid	Refer to EPA 3550C:2007 LC-MS/MS	vPvB
87	Tricosafuorododecanoic acid		vPvB
88	Henicosafuoroundecanoic		vPvB
89	Heptacosafuorotetradecanoic acid		vPvB
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues <sup>(2)</sup>	Refer to EPA 3550C:2007 HPLC	EQC
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 <sup>(2)</sup>		EQC
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	Refer to EPA 3550C:2007 HPLC	EQC
93	Cyclohexane-1,2-dicarboxylic anhydride , cis-cyclohexane-1,2-dicarboxylic anhydride , trans-cyclohexane-1,2-dicarboxylic anhydride	Refer to EPA 3540C:1996 GC-MS	EQC
94	Hexahydromethylphthalic anhydride、 Hexahydro-4-methylphthalic anhydride、 Hexahydro-1-methylphthalic anhydride、 Hexahydro-3-methylphthalic anhydride		EQC

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95	Methoxy acetic acid	Refer to EPA 3550C:2007 GC-MS	Toxic for reproduction; EQC
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	Refer to EPA 8061A:1996 GC-MS	Toxic for reproduction
97	Diisopentylphthalate(DIPP)		Toxic for reproduction
98	N-pentyl-isopentylphthalate		Toxic for reproduction
99	1,2-Diethoxyethane	Refer to EPA 8270D:2007 GC-MS	Toxic for reproduction
100	N,N-dimethylformamide;dimethyl formamide	Refer to EPA 3550C:2007 GC-MS	Toxic for reproduction
101	Dibutyltin dichloride (DBT)	Refer to ISO17353 GC-MS	Toxic for reproduction
102	Acetic acid, lead salt, basic <sup>(1)</sup>	Refer to EPA3050B/ EPA 3052/ EPA6010C ICP-OES	Toxic for reproduction
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) <sup>(1)</sup>		
104	lead oxide sulphate <sup>(1)</sup>		
105	[Phthalato(2-)]dioxotrilead(1)	Refer to EPA3050B/ EPA 3052/ EPA6010C EPA 3550C:2007 ICP-OES GC-MS	Toxic for reproduction
106	Dioxobis(stearato)trilead <sup>(1)</sup>		
107	Fatty acids, C16-18, lead salts <sup>(1)</sup>		
108	Lead bis(tetrafluoroborate) <sup>(1)</sup>	Refer to EPA3050B/ EPA 3052/ EPA6010C ICP-OES	Toxic for reproduction
109	Lead cyanamide <sup>(1)</sup>		
110	Lead dinitrate <sup>(1)</sup>		
111	Lead oxide (lead monoxide) <sup>(1)</sup>		
112	Lead tetroxide (orange lead) <sup>(1)</sup>		

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## Reference Methods:

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification
113	Lead titanium trioxide <sup>(1)</sup>	Refer to EPA3050B/ EPA 3052/ EPA6010C ICP-OES	Toxic for reproduction
114	Lead Titanium Zirconium Oxide <sup>(1)</sup>		
115	Pentalead tetraoxide sulphate <sup>(3)</sup>		
116	Pyrochlore, antimony lead yellow <sup>(3)</sup>		
117	Silicic acid, barium salt, lead-doped <sup>(3)</sup>		
118	Silicic acid, lead salt <sup>(1)</sup>		
119	Sulfurous acid, lead salt, dibasic <sup>(1)</sup>		
120	Tetraethyllead <sup>(1)</sup>	Refer to EPA3050B/ EPA 3052/ EPA6010C EPA 3550C:2007 ICP-OES GC-MS	Toxic for reproduction
121	Tetralead trioxide sulphate <sup>(1)</sup>	Refer to EPA3050B/ EPA 3052/ EPA6010C ICP-OES	Toxic for reproduction
122	Trilead dioxide phosphonate <sup>(1)</sup>		
123	Furan	Refer to EPA 5021:1996 GC	Carcinogen
124	Propylene oxide; 1,2-epoxypropane; methyloxirane		Carcinogen, mutagenesis
125	Diethyl sulphate	Refer to EPA 3550C:2007 HPLC	Carcinogen, mutagenesis
126	Dimethyl sulphate		Carcinogen
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-o xazolidine	Refer to EPA 3550C:2007 GC-MS	Toxic for reproduction

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## Reference Methods:

No.	Substance Name(s)	Reference Methods and Equipments	Substance Classification
128	Dinoseb	Refer to EPA 3550C:2007 HPLC	Toxic for reproduction
129	4,4'-methylenedi-o-toluidine	Refer to EN 14362-1&3:2012 GC-MS	Carcinogen
130	4,4'-oxydianiline and its salts		Carcinogen、 mutagenesis
131	4-Aminoazobenzene; 4-Phenylazoaniline		Carcinogen
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)		Carcinogen
133	6-methoxy-m-toluidine (p-cresidine)		Carcinogen
134	Biphenyl-4-ylamine		Carcinogen
135	o-aminoazotoluene		Carcinogen
136	o-Toluidine; 2-Aminotoluene		Carcinogen
137	N-methylacetamide	Refer to EPA 3550C:2007 GC-MS	Toxic for reproduction
138	1-bromopropane	Refer to EPA 5021:1996 GC	Toxic for reproduction

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Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
1	Anthracene	120-12-7	204-371-1	0.0005	N.D.
2	Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
3	Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
4	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
5	HBCDD( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4/ 221-695-9	0.005	N.D.
6	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
7	Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
8	Musk xylene	81-15-2	201-329-4	0.005	N.D.
9	Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
10	Bis(tributyltin)oxide	56-35-9	200-268-0	0.01	N.D.
11	Cobalt dichloride <sup>(1)</sup>	7646-79-9	231-589-4	0.01	N.D.
12	Diarsenic pentaoxide <sup>(1)</sup>	1303-28-2	215-116-9	0.01	N.D.
13	Diarsenic trioxide <sup>(1)</sup>	1327-53-3	215-481-4	0.01	N.D.
14	Sodium dichromate <sup>(1)</sup>	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
15	Lead hydrogen arsenate <sup>(1)</sup>	7784-40-9	232-064-2	0.01	N.D.

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Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
16	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01	N.D.
17	Anthracene oil <sup>(2)</sup>	90640-80-5	292-602-7	0.050	N.D.
18	Anthracene oil, anthracene paste, distn. Lights <sup>(2)</sup>	91995-17-4	295-278-5		
19	Anthracene oil, anthracene paste, anthracene fraction <sup>(2)</sup>	91995-15-2	295-275-9		
20	Anthracene oil, anthracene-low <sup>(2)</sup>	90640-82-7	292-604-8		
21	Anthracene oil, anthracene paste <sup>(2)</sup>	90640-81-6	292-603-2		
22	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
23	Lead chromate <sup>(3)</sup>	7758-97-6	231-846-0	0.005	N.D.
24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) <sup>(3)</sup>	12656-85-8	235-759-9	0.005	N.D.
25	Lead sulfochromate yellow (C.I. Pigment Yellow 34) <sup>(3)</sup>	1344-37-2	215-693-7	0.005	N.D.
26	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.005	N.D.
27	Coal tar pitch, high temperature <sup>(2)</sup>	65996-93-2	266-028-2	0.050	N.D.
28	Acrylamide	79-06-1	201-173-7	0.005	N.D.

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Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
29	Trichloroethylene	79-01-6	201-167-4	0.01	N.D.
30	Boric Acid <sup>(1)</sup>	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01	N.D.
31	Disodium Tetraborate, Anhydrous <sup>(1)</sup>	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01	N.D.
32	Tetraboron Disodium Heptaoxide, Hydrate <sup>(1)</sup>	12267-73-1	235-541-3	0.01	N.D.
33	Sodium Chromate <sup>(1)</sup>	7775-11-3	231-889-5	0.01	N.D.
34	Potassium Chromate <sup>(1)</sup>	7789-00-6	232-140-5	0.01	N.D.
35	Potassium Dichromate <sup>(1)</sup>	7778-50-9	231-906-6	0.01	N.D.
36	Ammonium dichromate <sup>(1)</sup>	7789-09-5	232-143-1	0.01	N.D.
37	Cobalt(II) sulfate <sup>(1)</sup>	10124-43-3	233-334-2	0.01	N.D.
38	Cobalt(II) dinitrate <sup>(1)</sup>	10141-05-6	233-402-1	0.01	N.D.
39	Cobalt(II) carbonate <sup>(1)</sup>	513-79-1	208-169-4	0.01	N.D.
40	Cobalt(II) diacetate <sup>(1)</sup>	71-48-7	200-755-8	0.01	N.D.
41	2-Methoxyethanol	109-86-4	203-713-7	0.01	N.D.
42	2-Ethoxyethanol	110-80-5	203-804-1	0.01	N.D.
43	Chromium trioxide <sup>(1)</sup>	1333-82-0	215-607-8	0.01	N.D.

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Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result	
44	Chromic acid	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01	N.D.	
	chromium hemitrioxide and acid from it's oligomer <sup>(1)</sup>			Dichromic acid	0.01	N.D.
				Oligomers of chromic acid and dichromic acid	0.01	N.D.
45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.01	N.D.	
46	strontium chromate <sup>(1)</sup>	7789-06-2	232-142-6	0.01	N.D.	
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters <sup>(2)</sup>	68515-42-4	271-084-6	0.01	N.D.	
48	Hydrazine	7803-57-8 302-01-2	206-114-9	0.01	N.D.	
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.01	N.D.	
50	1,2,3-trichloropropane	96-18-4	202-486-1	0.01	N.D.	
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich <sup>(2)</sup>	71888-89-6	276-158-1	0.01	N.D.	

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Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
52	Dichromium tris(chromate) <sup>(1)</sup>	24613-89-6	246-356-2	0.01	N.D.
53	Potassium hydroxyoctaoxodizincatedi-chromate <sup>(1)</sup>	11103-86-9	234-329-8	0.01	N.D.
54	Pentazinc chromate octahydroxide <sup>(3)</sup>	49663-84-5	256-418-0	0.01	N.D.
55	Aluminosilicate Refractory Ceramic Fibres (RCF) <sup>(3)</sup>	—	—	0.01	N.D.
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) <sup>(3)</sup>	—	—	0.01	N.D.
57	Formaldehyde, oligomeric reaction products with aniline <sup>(3)</sup>	25214-70-4	500-036-1	0.05	N.D.
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005	N.D.
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005	N.D.
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005	N.D.
61	1,2-Dichloroethane	107-06-2	203-458-1	0.01	N.D.
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.01	N.D.
63	Arsenic acid <sup>(1)</sup>	7778-39-4	231-901-9	0.01	N.D.
64	Calcium arsenate <sup>(1)</sup>	7778-44-1	231-904-5	0.01	N.D.
65	Trilead diarsenate <sup>(1)</sup>	3687-31-8	222-979-5	0.01	N.D.
66	N,N-dimethylacetamide	127-19-5	204-826-4	0.005	N.D.
67	Phenolphthalein	77-09-8	201-004-7	0.01	N.D.
68	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005	N.D.
69	Lead diazide, Lead azide <sup>(1)</sup>	13424-46-9	236-542-1	0.01	N.D.
70	Lead styphnate <sup>(1)</sup>	15245-44-0	239-290-0	0.01	N.D.
71	Lead dipicrate <sup>(1)</sup>	6477-64-1	229-335-2	0.01	N.D.

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Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.01	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01	N.D.
74	Diboron trioxide <sup>(1)</sup>	1303-86-2	215-125-8	0.01	N.D.
75	Formamide	75-12-7	200-842-0	0.01	N.D.
76	Lead(II) bis(methanesulfonate) <sup>(1)</sup>	17570-76-2	401-750-5	0.01	N.D.
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01	N.D.
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) <sup>(4)</sup>	59653-74-6	423-400-0	0.01	N.D.
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.01	N.D.
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.01	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	219-943-6	0.01	N.D.
83	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01	N.D.
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01	N.D.

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	Tel: (010)82618116	(021)64851999	(0755)26050909	(0532)88706866
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**Test Report**  
 (SVHC)

NO.: H01143045604D

Date: Jan 24, 2013

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Test result (Unit: %)

No.	Test item	CAS number	EC number	MDL	Test Result
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.005	N.D.
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.005	N.D.
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.005	N.D.
88	Henicosafuoroundecanoic	2058-94-8	218-165-4	0.005	N.D.
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.005	N.D.
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues <sup>(2)</sup>	—	—	0.01	N.D.
91	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof <sup>(2)</sup>	—	—	0.01	N.D.
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.005	N.D.
93	Hexahydromethylphthalic anhydride、 Hexahydro-4-methylphthalic anhydride、 Hexahydro-1-methylphthalic anhydride、 Hexahydro-3-methylphthalic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.01	N.D.

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Test result (Unit: %)

No.	Test item	CAS number	EC number	MDL	Test Result
94	Hexahydromethylphthalic anhydride、 Hexahydro-4-methylphthalic anhydride、 Hexahydro-1-methylphthalic anhydride、 Hexahydro-3-methylphthalic anhydride	25550-51-0、 19438-60-9、 48122-14-1、 57110-29-9	247-094-1、 243-072-0、 256-356-4、 260-566-1	0.01	N.D.
95	Methoxy acetic acid	625-45-6	210-894-6	0.01	N.D.
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.01	N.D.
97	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	0.005	N.D.
98	N-pentyl-isopentylphthalate	776297-69-9	—	0.005	N.D.
99	1,2-Diethoxyethane	629-14-1	211-076-1	0.01	N.D.
100	N,N-dimethylformamide;dimethyl formamide	68-12-2	200-679-5	0.01	N.D.
101	Dibutyltin dichloride (DBT)	683-18-1	211-670-0	0.01	N.D.
102	Acetic acid, lead salt, basic <sup>(1)</sup>	51404-69-4	257-175-3	0.01	N.D.
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) <sup>(1)</sup>	1319-46-6	215-290-6	0.01	N.D.
104	lead oxide sulphate <sup>(1)</sup>	12036-76-9	234-853-7	0.01	N.D.
105	[Phthalato(2-)]dioxotrilead <sup>(1)</sup>	69011-06-9	273-688-5	0.01	N.D.
106	Dioxobis(stearato)trilead <sup>(1)</sup>	12578-12-0	235-702-8	0.01	N.D.
107	Fatty acids, C16-18, lead salts <sup>(1)</sup>	91031-62-8	292-966-7	0.01	N.D.
108	Lead bis(tetrafluoroborate) <sup>(1)</sup>	13814-96-5	237-486-0	0.01	N.D.
109	Lead cyanamate <sup>(1)</sup>	20837-86-9	244-073-9	0.01	N.D.

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Test result (Unit: %)

No.	Test item	CAS number	EC number	MDL	Test Result
110	Lead dinitrate <sup>(1)</sup>	10099-74-8	233-245-9	0.01	N.D.
111	Lead oxide (lead monoxide) <sup>(1)</sup>	1317-36-8	215-267-0	0.01	N.D.
112	Lead tetroxide (orange lead) <sup>(1)</sup>	1314-41-6	215-235-6	0.01	N.D.
113	Lead titanium trioxide <sup>(1)</sup>	12060-00-3	235-038-9	0.01	N.D.
114	Lead Titanium Zirconium Oxide <sup>(1)</sup>	12626-81-2	235-727-4	0.01	N.D.
115	Pentalead tetraoxide sulphate <sup>(3)</sup>	12065-90-6	235-067-7	0.01	N.D.
116	Pyrochlore, antimony lead yellow <sup>(3)</sup>	8012-00-8	232-382-1	0.01	N.D.
117	Silicic acid, barium salt, lead-doped <sup>(3)</sup>	68784-75-8	272-271-5	0.01	N.D.
118	Silicic acid, lead salt <sup>(1)</sup>	11120-22-2	234-363-3	0.01	N.D.
119	Sulfurous acid, lead salt, dibasic <sup>(1)</sup>	62229-08-7	263-467-1	0.01	N.D.
120	Tetraethyllead <sup>(1)</sup>	78-00-2	201-075-4	0.01	N.D.
121	Tetralead trioxide sulphate <sup>(1)</sup>	12202-17-4	235-380-9	0.01	N.D.
122	Trilead dioxide phosphonate <sup>(1)</sup>	12141-20-7	235-252-2	0.01	N.D.

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Test result (Unit: %)

No.	Test item	CAS number	EC number	MDL	Test Result
123	Furan	110-00-9	203-727-3	0.01	N.D.
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.01	N.D.
125	Diethyl sulphate	64-67-5	200-589-6	0.01	N.D.
126	Dimethyl sulphate	77-78-1	201-058-1	0.01	N.D.
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.01	N.D.
128	Dinoseb	88-85-7	201-861-7	0.01	N.D.
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.005	N.D.
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.005	N.D.
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-9-3	200-453-6	0.005	N.D.
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.005	N.D.
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.005	N.D.
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.005	N.D.
135	o-aminoazotoluene	97-56-3	202-591-2	0.005	N.D.
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.005	N.D.
137	N-methylacetamide	79-16-3	201-182-6	0.01	N.D.
138	1-bromopropane	106-94-5	203-445-0	0.01	N.D.

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Note: N.D. = Not Detected (&lt;report limit)

0.1% = 1000 mg/kg = 1000 ppm; mg/kg = ppm

- (1): PBT=Persistent, bioaccumulative and toxic; vPvB=very Persistent very Bioaccumulative  
Concentration value of Cobalt dichloride is by the conversion from the test results of Cobalt and Chlorine. Concentration value of Cobalt(II) sulfate, Cobalt(II) dinitrate, Cobalt(II) carbonate, Cobalt(II) diacetate are by the conversion from the test results of Cobalt and Acid. Concentration value of Diarsenic pentoxide, Diarsenic trioxide, Sodium dichromate, Bis(tributyltin)oxide, Lead hydrogen arsenate, Triethyl arsenate, Chromium trioxide, chromium hemitrioxide and acid from it's oligomer, strontium chromate, Boric Acid, Disodium Tetraborate. Anhydrous, Tetraboron Disodium Heptaoxide. Hydrate, Sodium Chromate, Potassium Chromate, Potassium Dichromate, Ammonium dichromate, Dichromium tris(chromate), Potassium hydroxyoctaoxodizincatedi-chromate, Arsenic acid, Calcium arsenate, Trilead diarsenate, Lead diazide, Lead styphnate, Lead dipicrate, Diboron trioxide and Lead(II) bis(methanesulfonate), Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), lead oxide sulphate, Lead bis(tetrafluoroborate), Lead cyanamate, Lead dinitrate, Lead oxide, Lead tetroxide, Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Silicic acid, barium salt, lead-doped, Sulfurous acid, lead salt, Silicic acid, lead salt, dibasic, Tetralead trioxide sulphate, Trilead dioxide phosphonate Tetraethyllead, [Phthalato(2-)]dioxotrilead, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts are by the conversion from the test results of corresponding Inorganic elements.
- (2): 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.
- (3): when tested substances contain variable compounds, the test results are calculated based on main constituents of the representative compounds for the substances. The test results of the representative compounds are calculated based on the result of specified heavy metal elements.
- (4): TGIC is a mixture and also contains  $\beta$ -TGIC. According to the ECHA's technical dossier the ratio of  $\beta$ -TGIC to TGIC is around 1 to 10. Therefore  $\beta$ -TGIC is issued based on the above-mentioned ratio.

### Remarks:

- The chemical analysis of 138 SVHC is performed by means of currently available analytical Techniques in the list published by ECHA on 28 Oct 2008, 13 Jan 2010, 30 Mar 2010, 18 Jun 2010, 15 Dec 2010, 20 June 2011, 19 Dec 2011, 18 Jun 2012 and 19 Dec, 2012 shall refer to <http://echa.europa.eu/web/guest/candidate-list-table>
- In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 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).
- 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.

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	Fax: (010)82619629		(021)64856403		(0755)26068336		(0532)88706877	
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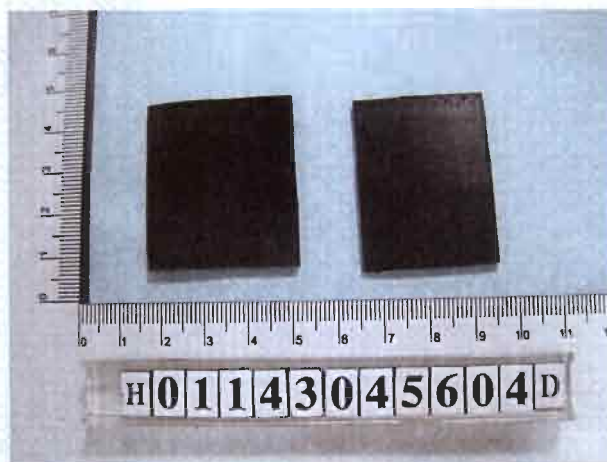
**Test Report**  
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Photo:



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**Test Report**  
 (SVHC)

NO.: H01143045604D

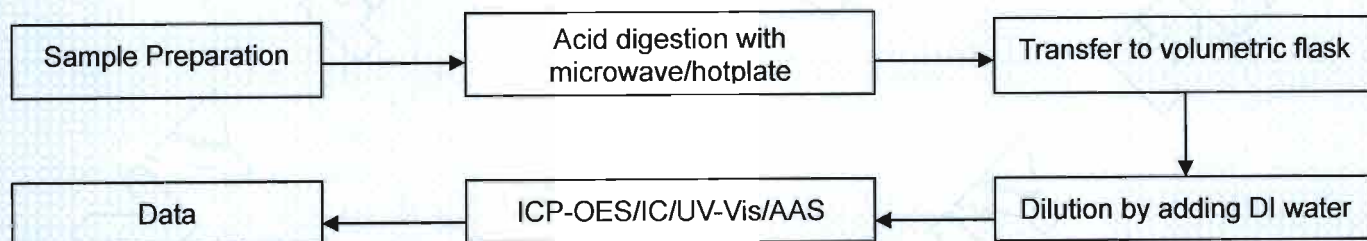
Date: Jan 24, 2013

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## Measurement Flow-chart

Tested by: Zhangyonggang  
 Checked by: Maozuqing  
 Person in charge of the lab: Zhaoyanyuan

1. Determination of Cobalt dichloride/ Diarsenic pentaoxide/ Diarsenic trioxide/Sodium dichromate/ Lead hydrogen Arsenate/ Triethyl arsenate/Lead chromate/ Lead red (C.I. Pigment Red 104)/ Lead sulfochromate yellow(C.I. Pigment Yellow 34) / Boric acid/ Disodium tetraborate, anhydrous/ Tetraboron disodiumheptaoxide, hydrate/ Sodium chromate/ Potassium chromate/ Ammonium dichromate/Potassium dichromate/ Cobalt(II) sulfate / Cobalt(II) dinitrate / Cobalt(II) carbonate/ Cobalt(II) diacetate /Chromium trioxide/chromium hemitrioxide and acid from it's oligomer(Chromic acid/ Dichromic acid/ Oligomers of chromicacid and dichromic acid)/strontium chromate / Hydrazine/ Dichromium tris(chromate)/Potassium hydroxyoctaoxidizincatedi-chromate/ Pentazinc chromate octahydroxide/Aluminosilicate Refractory Ceramic Fibres (RCF)/Zirconia Aluminosilicate Refractory Ceramic Fibres(Zr-RCF)/Arsenic acid/ Calcium arsenate/ Trilead diarsenate/ Lead diazide , Lead azide / Lead styphnate/Lead dipicrate/ Diboron trioxide/Lead(II) bis(methanesulfonate)/Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), lead oxide sulphate, Lead bis(tetrafluoroborate), Lead cynamidate, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Silicic acid, barium salt, lead-doped, Silicic acid, lead salt, Sulfurous acid, lead salt, dibasic, Tetralead trioxide sulphate, Trilead dioxide phosphonate,Tetraethyllead, [Phthalato(2-)]dioxotrilead, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts



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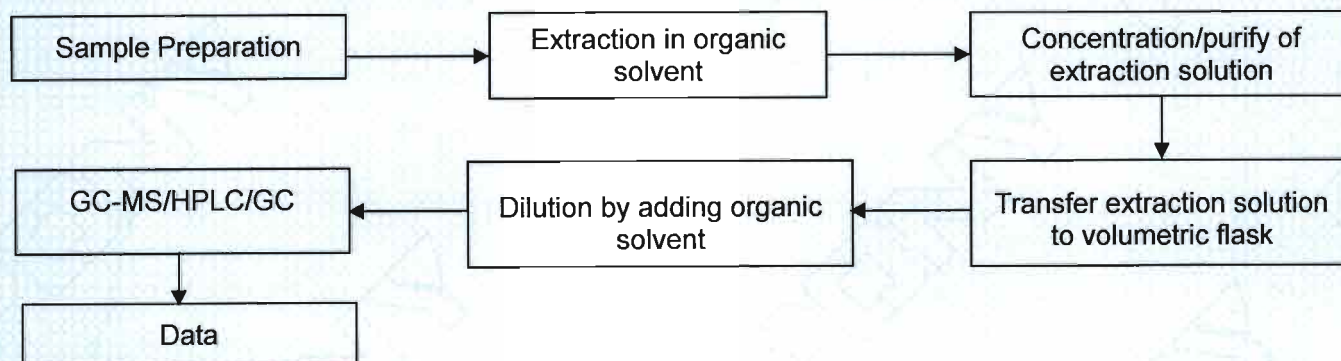
**Measurement Flow-chart**

Tested by: Huanglong

Checked by: Maozuqing

Person in charge of the lab: Zhaoyanyuan

2. Determination of Anthracene/ 4,4'- Diaminodiphenylmethane/ musk xylene / HBCDD / Short Chain Chlorinated-Paraffins / Bis(tributyltin)oxide/ Benzyl butyl phthalate/ Bis (2-ethylhexyl)phthalate (DEHP)/ Dibutyl phthalate/ 2,4-Dinitrotoluene/ Anthracene oil/ Anthracene oil, anthracene paste, distn. Lights/ Anthracene oil, anthracene paste, anthracene fraction/ Anthracene oil, anthracene-low/ Anthracene oil, anthracene paste/ Diisobutyl phthalate(DIBP)/ Acrylamide/ Tris(2-chloroethyl) phosphate(TCEP)/ Coal tar pitch, high temperature/ Trichloroethylene/2-ethoxyethyl acetate/1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters /1-methyl-2-pyrrolidone/1,2,3-trichloropropane/ 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich/ Bis(2-methoxyethyl) phthalate/2-Methoxyaniline/ o-Anisidine/4-(1,1,3,3-tetramethylbutyl)phenol/ (4-tert-Octylphenol)/1,2-Dichloroethane/Bis(2-methoxyethyl)ether/N,N-dimethylacetamide/Phenolphthalein/2,2'-dichloro-4,4'-methylenedianiline (MOCA)/ 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)/ 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)/ Formamide/ TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)/β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)/ 4,4'-bis(dimethylamino)benzophenone(Michler's ketone)/ N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)/[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)/ [4-[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue26)/α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino) naphthalene-1-methanol (C.I.Solvent Blue 4)/ 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol



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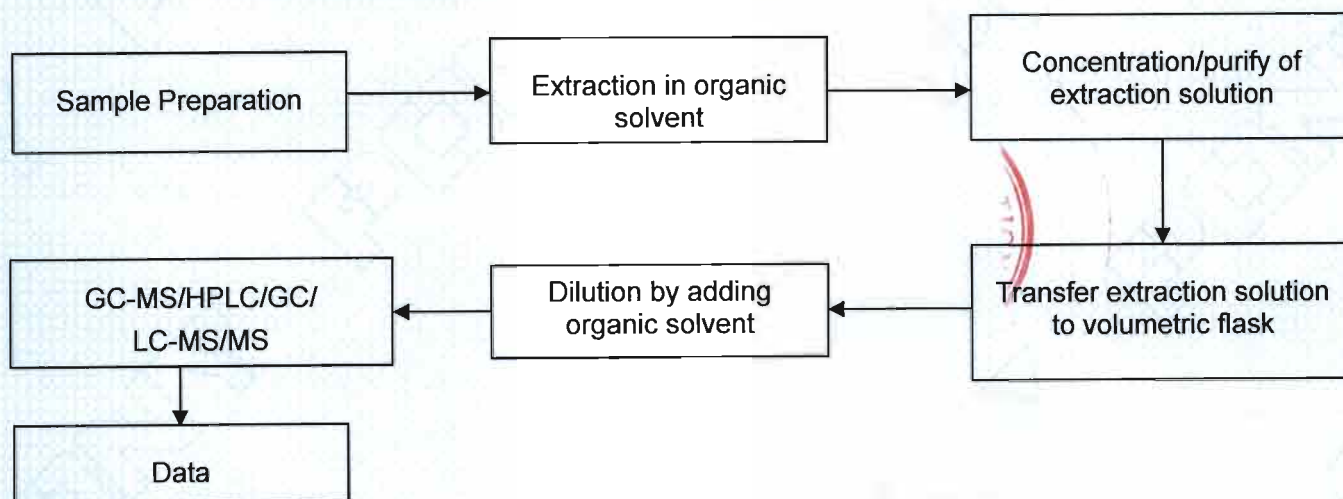
Date: Jan 24, 2013

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**Measurement Flow-chart**

Tested by: Huanglong  
 Checked by: Maozuqing  
 Person in charge of the lab: Zhaoyanyuan

3. Bis(pentabromophenyl) ether (DecaBDE), Pentacosfluorotridecanoic acid, Tricosfluorododecanoic acid, Henicosfluoroundecanoic, Heptacosfluorotetradecanoic acid, 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues, 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, Diazene-1,2-dicarboxamide (C,C'-azodi (formamide)), Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride, Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride, Methoxy acetic acid, 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, Diisopentylphthalate(DIPP), N-pentyl-isopentylphthalate, 1,2-Diethoxyethane, N,N-dimethylformamide; dimethyl formamide, Dibutyltin dichloride (DBT), [Phthalato(2-)]dioxotrilead, Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Tetraethyllead, Furan, Propylene oxide; 1,2-epoxypropane; methyloxirane, Diethyl sulphate, Dimethyl sulphate, Dinoseb, 4,4'-methylenedi-o-toluidine, 4,4'-oxydianiline and its salts, 4-Aminoazobenzene; 4-Phenylazoaniline, 4-methyl-m-phenylenediamine (2,4-toluene-diamine), 6-methoxy-m-toluidine (p-cresidine), Biphenyl-4-ylamine, o-aminoazotoluene, o-Toluidine; 2-Aminotoluene, N-methylacetamide, 1-bromopropane, 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine



\*\*\*End of Report\*\*\*

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