

# TEST REPORT

NO.: A001R180722075002-2

Date: Jul 28, 2018

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**Applicant:** SHENZHEN EASTRISING TECHNOLOGY CO.,LTD

**Address:** Room 6G,Floor 6,Building A1,Zhujiang Square,Zhongxin Cheng,Longgang District,Shenzhen,China.

**Report on the submitted sample said to be**

**Sample name:** TOUCH Screen

**Model:** /

**Item/Lot No.:** /

**Material:** /

**Buyer:** /

**Supplier:** /

**Manufacturer:** /

**Sample received date:** Jul 22, 2018

**Testing period:** From Jul 22, 2018 to Jul 28, 2018

**Test Requested:**

As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the one hundred and fifty-five (155) Substances of Very High Concern (SVHC) in the submitted sample.

**Test Method:**

Please refer to next page(s)

**Test Instrument:**

Please refer to next page(s)

**Summary:**

According to the specified scope and analytical techniques, concentrations of SVHC are less than 0.1%(w/w) in the submitted sample.	PASS
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\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*



Signed for and on behalf of  
Shenzhen AOV Testing Technology Co., Ltd

Tested by: Hugo  
Chen Ru Chun, Hugo  
Project Leader

Reviewed by: Rosary  
Luo Jun, Rosary  
Vice Technical Supervisor

Approved by: Lewis  
Liu Lin Wen, Lewis  
Technical Supervisor

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**Test Method:**

Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
1	Arsenic	EPA 3052, ICP-OES	Diarsenic pentaoxide **, Diarsenic trioxide **, Triethyl arsenate **, Lead hydrogen arsenate **, Arsenic acid**, Calcium arsenate**, Trilead diarsenate**
2	Lead	EPA 3052, ICP-OES	Lead hydrogen arsenate **, Lead chromate **, Lead sulfochromate yellow (C.I.Pigment Yellow 34)**, Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**, Trilead diarsenate**, Lead diazide Lead azide **, Lead styphnate**, Lead dipicrate**, Lead(II) bis(methanesulfonate) **, Acetic acid, lead salt, basic**, Basic lead carbonate (trilead bis(carbonate) dihydroxide) **, Lead oxide sulfate (basic lead sulfate) **, [Phthalato(2-)]dioxotrilead (dibasic lead phthalate) **, Dioxobis(stearato)trilead**, Fatty acids, C16-18, lead salts**, Lead bis(tetrafluoroborate) **, Lead cyanamate**, 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**, Tetraethyllead**, Tetralead trioxide sulphate**, Trilead dioxide phosphonate** Lead di(acetate)**
3	Molybdenum	EPA 3052, ICP-OES	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
4	Hexavalent Chromium	IEC 62321, Annex B or Annex C , UV-VIS	Sodium dichromate **, Lead chromate **, Lead sulfochromate yellow (C.I.Pigment Yellow 34)**, Lead chromate molybdate sulphate red (C.I. Pigment Red 104)**, Sodium chromate**, Potassium chromate**, Ammonium dichromate**, Potassium dichromate**, Chromium trioxide**, Acids generated from chromium trioxide and their oligomers: Chromic acid**, Dichromic acid**, Oligomers of chromic acid and dichromic acid**, Strontium chromate**, Dichromium tris(chromate)**, Potassium hydroxyoctaoxidizincatedichromate**, Pentazinc chromate octahydroxide**
5	Strontium	EPA 3052, ICP-OES	Strontium chromate**
6	Cobalt	EPA 3052, ICP-OES	Cobalt dichloride **, Cobalt(II) sulphate**, Cobalt(II) dinitrate**, Cobalt(II) carbonate**, Cobalt(II) diacetate**
7	Boron	EPA 3052, ICP-OES	Boric acid** , Disodium tetraborate, anhydrous**, Tetraboron disodium heptaoxide, hydrate**, Diboron trioxide**, Lead bis(tetrafluoroborate) ** Sodium perborate; perboric acid, sodium salt**, Sodium peroxometaborate**
8	Silicon	EPA 3052, ICP-OES	Aluminosilicate Refractory Ceramic Fibres (RCF)**, Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**, Silicic acid, barium salt, lead-doped**, Silicic acid, lead salt**
9	Aluminum	EPA 3052, ICP-OES	Aluminosilicate Refractory Ceramic Fibres (RCF)**, Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**
10	Zirconium	EPA 3052, ICP-OES	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**, Lead Titanium Zirconium Oxide**
11	Cadmium	EPA 3052, ICP-OES	Cadmium, Cadmium oxide**, Cadmium sulphide** Cadmium chloride**
12	Bis(tributyltin)oxide (TBTO)	EN ISO 17353, GC-MS	Bis(tributyltin)oxide (TBTO)
13	4,4'-Diaminodiphenylmethane(MDA)	EPA 3540C, GC-MS	4,4'-Diaminodiphenylmethane (MDA)
14	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	EPA 3540C, GC-MS	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)
15	Dibutyl phthalate (DBP)	EPA 3540C, GC-MS	Dibutyl phthalate (DBP)

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
16	Benzyl butyl phthalate (BBP)	EPA 3540C, GC-MS	Benzyl butyl phthalate (BBP)
17	Bis (2-ethylhexyl)phthalate(DEHP)	EPA 3540C, GC-MS	Bis (2-ethylhexyl)phthalate (DEHP)
18	Diisobutyl phthalate (DIBP)	EPA 3540C, GC-MS	Diisobutyl phthalate (DIBP)
19	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)*	EPA 3540C, GC-MS	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)*
20	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	EPA 3540C, GC-MS	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)
21	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified	EPA 3540C, GC-MS	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified
22	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	EPA 3540C, GC-MS	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)
23	Anthracene	ZEK 01.4-08, GC-MS	Anthracene
24	Anthracene oil	ZEK 01.4-08, GC-MS	Anthracene oil
25	Anthracene oil, anthracene paste,distr. lights	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene paste, distr. lights
26	Anthracene oil, anthracene paste,anthracene fraction	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene paste, anthracene fraction
27	Anthracene oil, anthracene-low	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene-low
28	Anthracene oil, anthracene paste	ZEK 01.4-08, GC-MS	Anthracene oil, anthracene paste
29	Pitch, coal tar, high temp.	Distillation	Pitch, coal tar, high temp.
30	Acrylamide	EPA 3540C, HPLC	Acrylamide
31	2,4-Dinitrotoluene	EPA 3540C, GC-MS	2,4-Dinitrotoluene
32	Tris(2-chloroethyl)phosphate	EPA 3540C, GC-MS	Tris(2-chloroethyl)phosphate
33	Trichloroethylene	EPA 3540C, GC-FID	Trichloroethylene
34	2-Methoxyethanol	EPA8260C,HS-GC-FID	2-Methoxyethanol
35	2-Ethoxyethanol	EPA8260C,HS-GC-FID	2-Ethoxyethanol
36	2-Ethoxyethyl acetate	EPA8260C,HS-GC-FID	2-Ethoxyethyl acetate
37	Hydrazine	EPA8260C,HS-GC-FID	Hydrazine
38	1-Methyl-2-pyrrolidone	EPA 3540C, GC-FID	1-Methyl-2-pyrrolidone
39	1,2,3-Trichloropropane	EPA 3540C, GC-FID	1,2,3-Trichloropropane

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
40	Formaldehyde, oligomeric reaction products with aniline(technical MDA)	EPA 3540C, HPLC	Formaldehyde, oligomeric reaction products with aniline (technical MDA)
41	Bis(2-methoxyethyl) phthalate (DMEP)	EPA 3540C, GC-MS	Bis(2-methoxyethyl) phthalate (DMEP)
42	2-Methoxyaniline; o-Anisidine	EPA 3540C, GC-MS	2-Methoxyaniline; o-Anisidine
43	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	EPA 3540C, HPLC	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)
44	1,2-Dichloroethane	EPA 3540C, GC-FID	1,2-Dichloroethane
45	Bis(2-methoxyethyl) ether	EPA8260C,HS-GC-FID	Bis(2-methoxyethyl) ether
46	N,N-dimethylacetamide (DMAC)	EPA 3540C, HPLC	N,N-dimethylacetamide (DMAC)
47	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	EPA 3540C, GC-MS	2,2'-dichloro-4,4'-methylenedianiline (MOCA)
48	Phenolphthalein	EPA 3540C, HPLC	Phenolphthalein
49	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	EPA8260C,HS-GC-FID	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)
50	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	EPA8260C,HS-GC-FID	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)
51	Formamide	EPA 3540C, HPLC	Formamide
52	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	EPA 3540C, HPLC	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)
53	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	EPA 3540C, HPLC	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)
54	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	EPA 3540C, HPLC	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)
55	N,N,N',N'-tetramethyl-4,4'-methylene dianiline (Michler's base)	EPA 3540C, HPLC	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)
56	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	EPA 3540C, HPLC	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)
57	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	EPA 3540C, HPLC	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
58	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	EPA 3540C, HPLC	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)
59	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	EPA 3540C, HPLC	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol
60	Bis(pentabromophenyl) ether (DecaBDE)	EPA 3540C, GC-MS	Bis(pentabromophenyl) ether (DecaBDE)
61	Pentacosafuorotridecanoic acid	EPA 3540C, LC-MS	Pentacosafuorotridecanoic acid
62	Tricosafuorododecanoic acid	EPA 3540C, LC-MS	Tricosafuorododecanoic acid
63	Henicosafuoroundecanoic acid	EPA 3540C, LC-MS	Henicosafuoroundecanoic acid
64	Heptacosafuorotetradecanoic acid	EPA 3540C, LC-MS	Heptacosafuorotetradecanoic acid
65	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	EPA 3540C, HPLC	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues
66	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	EPA 3540C, HPLC	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
67	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	EPA 3540C, HPLC	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))
68	Cyclohexane-1,2-dicarboxylic anhydride(Hexahydrophthalic anhydride - HHPA)	EPA 3540C, GC-MS	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)
69	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride,Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	EPA 3540C, GC-MS	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride
70	Methoxy acetic acid	EPA 3540C, LC-MS	Methoxy acetic acid
71	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	EPA 3540C, GC-MS	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear
72	Diisopentylphthalate (DIPP)	EPA 3540C, GC-MS	Diisopentylphthalate (DIPP)

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Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
73	N-pentyl-isopentylphthalate	EPA 3540C, GC-MS	N-pentyl-isopentylphthalate
74	1,2-Diethoxyethane	EPA8260C,HS-GC-FID	1,2-Diethoxyethane
75	N,N-dimethylformamide; dimethyl formamide	EPA 3540C, HPLC	N,N-dimethylformamide; dimethyl formamide
76	Dibutyltin dichloride (DBTC)	EN ISO 17353, GC-MS	Dibutyltin dichloride (DBTC)
77	Furan	EPA 3540C,GC-FID	Furan
78	Propylene oxide; 1,2-epoxypropane; methyloxirane	EPA 3540C,GC-FID	Propylene oxide; 1,2-epoxypropane; methyloxirane
79	Diethyl sulphate	EPA 3540C, GC-FID	Diethyl sulphate
80	Dimethyl sulphate	EPA 3540C, GC-FID	Dimethyl sulphate
81	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	EPA 3540C, GC-MS	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine
82	Dinoseb	EPA 3540C, HPLC	Dinoseb
83	4,4'-methylenedi-o-toluidine	EPA 3540C, GC-MS	4,4'-methylenedi-o-toluidine
84	4,4'-oxydianiline and its salts	EPA 3540C, GC-MS	4,4'-oxydianiline and its salts
85	4-Aminoazobenzene; 4-Phenylazoaniline	EPA 3540C, GC-MS	4-Aminoazobenzene; 4-Phenylazoaniline
86	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	EPA 3540C, GC-MS	4-methyl-m-phenylenediamine (2,4-toluene-diamine)
87	6-methoxy-m-toluidine (p-cresidine)	EPA 3540C, GC-MS	6-methoxy-m-toluidine (p-cresidine)
88	Biphenyl-4-ylamine	EPA 3540C, GC-MS	Biphenyl-4-ylamine
89	o-aminoazotoluene	EPA 3540C, GC-MS	o-aminoazotoluene
90	o-Toluidine; 2-Aminotoluene	EPA 3540C, GC-MS	o-Toluidine; 2-Aminotoluene
91	N-methylacetamide	EPA 3540C, HPLC	N-methylacetamide
92	1-bromopropane; n-propyl bromide	EPA 3540C, GC-FID	1-bromopropane; n-propyl bromide
93	Dipentyl phthalate (DPP)	EPA 3540C, GC-MS	Dipentyl phthalate(DPP)
94	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]	EPA 3540C, HPLC	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]

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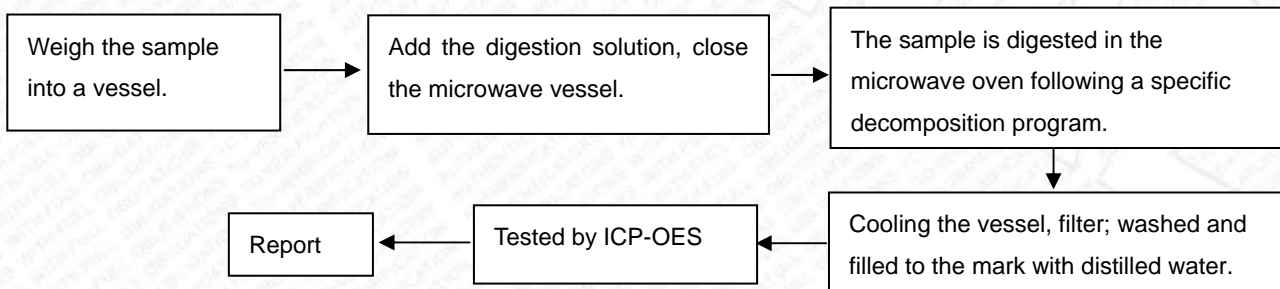
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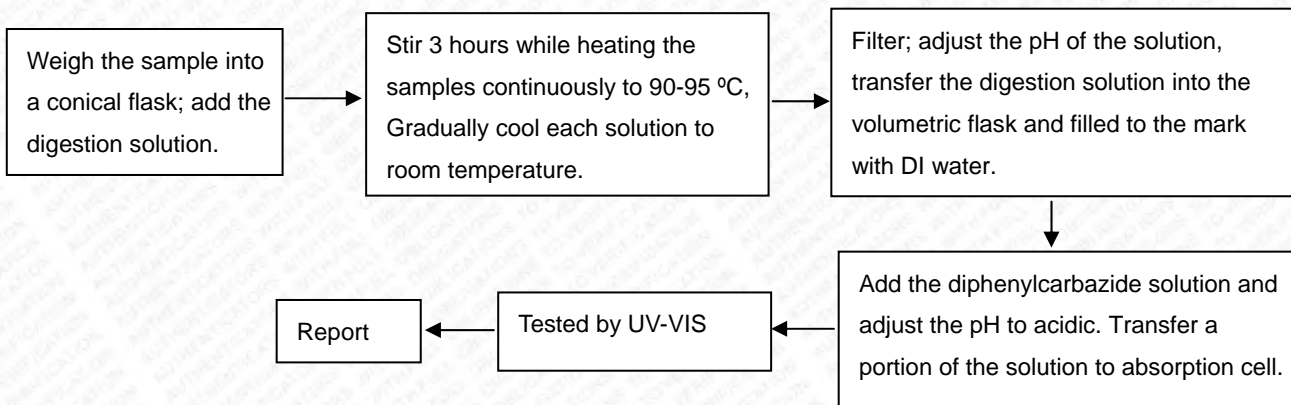
Code	Test Item	Pretreatment Method/ Measuring Instrument	SVHC Item
95	Ammonium pentadecafluorooctanoate (APFO)	EPA 3540C, LC-MS	Ammonium pentadecafluorooctanoate (APFO)
96	Pentadecafluorooctanoic acid (PFOA)	EPA 3540C, LC-MS	Pentadecafluorooctanoic acid (PFOA)
97	Dihexyl phthalate (DNHP)	EPA 3540C, GC-MS	Dihexyl phthalate (DNHP)
98	C.I. Direct Red 28	EPA 3540C, LC-MS	C.I. Direct Red 28
99	C.I. Direct Black 38	EPA 3540C, LC-MS	C.I. Direct Black 38
100	2-imidazoline-2-thiol	EPA 3540C, LC-MS	2-imidazoline-2-thiol
101	Trixylyl phosphate	EPA 3540C, GC-MS	Trixylyl phosphate
102	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	EPA 3540C, GC-MS	1,2-Benzenedicarboxylic acid, dihexylester, branched and linear

## Test Flow:

1. To Determine Lead, Arsenic, Cobalt, Silicon, Aluminum, Zirconium, Molybdenum, Boron, Strontium, Cadmium Content:



2. To Determine Hexavalent Chromium Content:





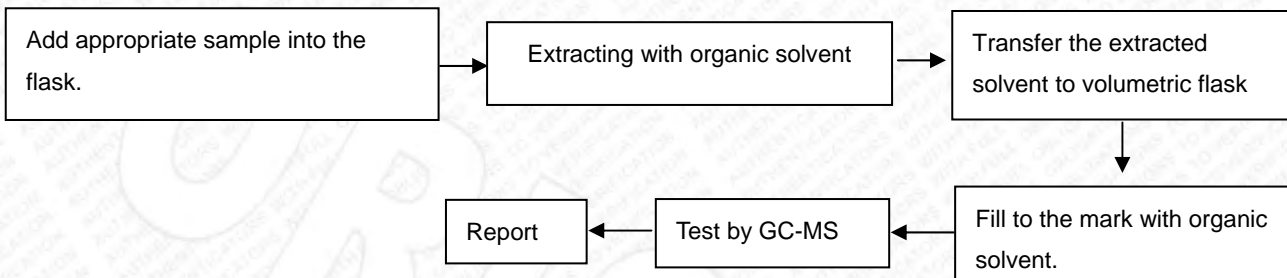
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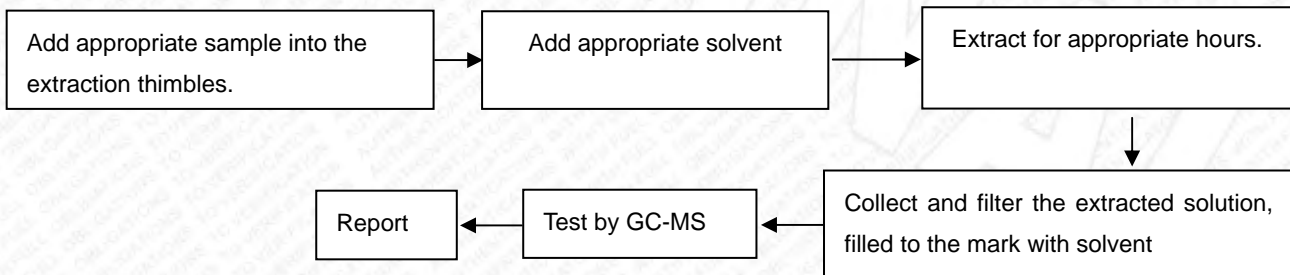
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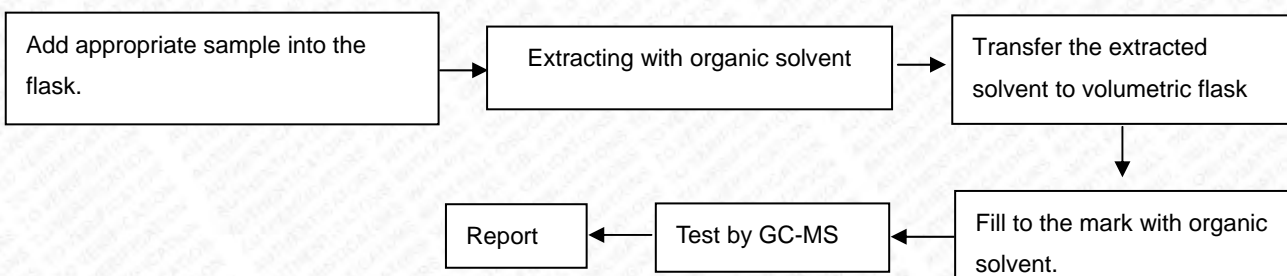
3. To Determine Anthracene; Anthracene oil; Anthracene oil, anthracene paste, distn. Lights; Anthracene oil, anthracene paste, anthracene fraction; Anthracene oil, anthracene-low; Anthracene oil, anthracene paste Content:



4. To Determine DEHP, DBP, BBP, DIBP, DHNUP, DIHP, DMEP, DIPP, DNHP, N-pentyl-isopentylphthalate, 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear, Dipentyl phthalate (DPP), 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear Content:



5. To Determine 4,4'-Diaminodiphenylmethane (MDA), 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene), Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified, Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins), 2,4-Dinitrotoluene, Tris(2-chloroethyl)phosphate, 2-Methoxyaniline; o-Anisidine, 2,2'-dichloro-4,4'-methylenedianiline (MOCA), Bis(pentabromophenyl) ether (DecaBDE), anhydride (Hexahydrophthalic anhydride - HHPA), Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride, 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine, 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, Trixylyl phosphate Content:



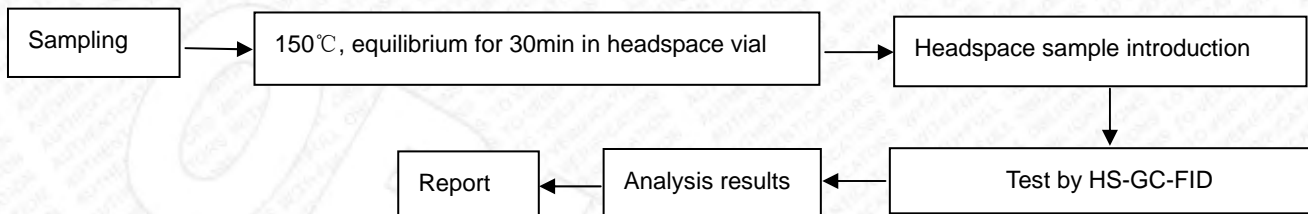
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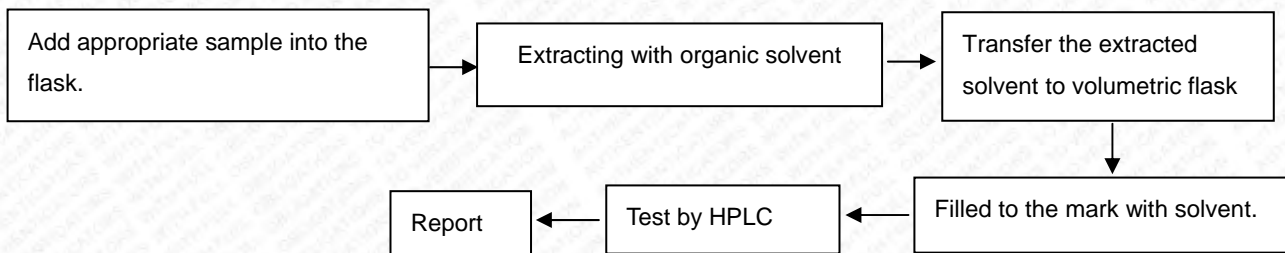
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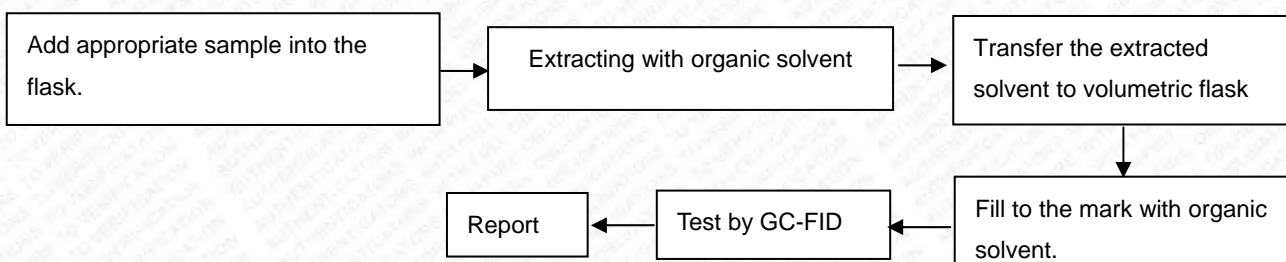
6. To Determine 2-Methoxyethanol, 2-Ethoxyethanol, 2-Ethoxyethyl acetate, Hydrazine, Bis(2-methoxyethyl) ether, 1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme), 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME), 1,2-Diethoxyethane Content:



7. To Determine Acrylamide, Formaldehyde, oligomeric reaction products with aniline (technical MDA), 4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol), N,N-dimethylacetamide (DMAC), Phenolphthalein, Formamide, TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione),  $\beta$ -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), Basic Violet 3, Basic Blue 26, Solvent Blue 4, 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol, 4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues, 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, Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)), N,N-dimethylformamide; dimethyl formamide, Dinoseb, N-methylacetamide, 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 coveringUVCB- and well-defined substances, polymers and homologues]Content:



8. To Determine Trichloroethylene, 1-Methyl-2-pyrrolidone, 1,2,3-Trichloropropane, 1,2-Dichloroethane, Furan, Propylene oxide, 1,2-epoxypropane, methyloxirane, Diethyl sulphate, Dimethyl sulphate, 1-bromopropane, n-propyl bromide Content:



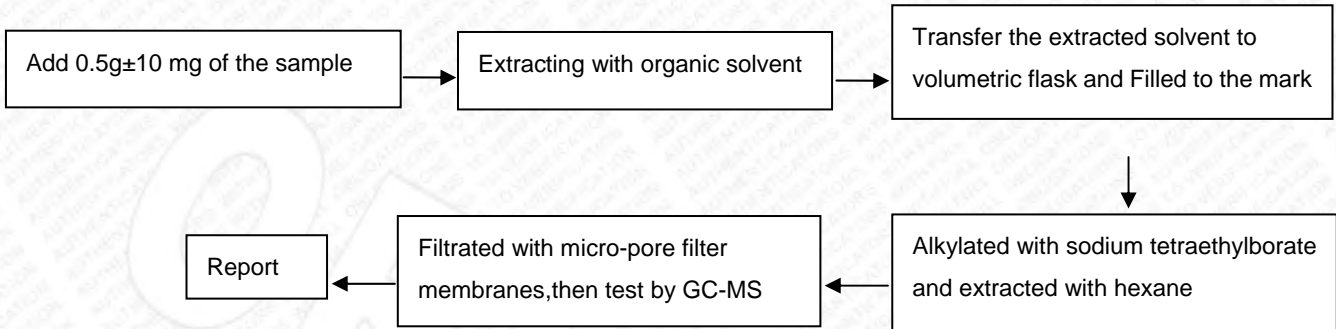
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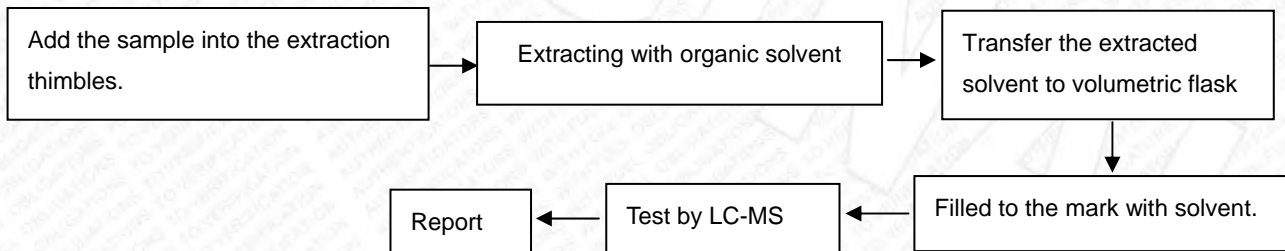
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9. To Determine Bis(tributyltin)oxide (TBTO), Dibutyltin dichloride (DBTC) Content:



10. To Determine Pentacosafuorotridecanoic acid, Tricosafuorododecanoic acid, Henicosafuoroundecanoic acid, Heptacosafuorotetradecanoic acid, Methoxy acetic acid, Ammonium pentadecafluorooctanoate (APFO), Pentadecafluorooctanoic acid (PFOA), Direct Red 28, Direct Black 38, 2-imidazoline-2-thiol Content:



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## Report Results

The first fifteen Substances of Very High Concern (Released in Oct, 2008)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
1	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.020	N.D.
2	Diarsenic pentaoxide**	1303-28-2	215-116-9	0.020	N.D.
3	Diarsenic trioxide**	1327-53-3	215-481-4	0.020	N.D.
4	Triethyl arsenate**	15606-95-8	427-700-2	0.020	N.D.
5	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.020	N.D.
6	Cobalt dichloride**	7646-79-9	231-589-4	0.020	N.D.
7	Sodium dichromate **	7789-12-0, 10588-01-9	234-190-3	0.020	N.D.
8	Anthracene	120-12-7	204-371-1	0.020	N.D.
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.020	N.D.
10	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.020	N.D.
11	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.020	N.D.
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.020	N.D.
13	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0	0.020	N.D.
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified	25637-99-4, 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4, 221-695-9	0.020	N.D.
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.020	N.D.

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The second thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
16	Anthracene oil	90640-80-5	292-602-7	0.020	N.D.
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	0.020	N.D.
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.020	N.D.
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.020	N.D.
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.020	N.D.
21	Pitch, coal tar, high temp.	65996-93-2	266-028-2	0.020	N.D.
22	Acrylamide	79-06-1	201-173-7	0.020	N.D.
23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.020	N.D.
24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.020	N.D.
25	Lead chromate**	7758-97-6	231-846-0	0.020	N.D.
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	235-759-9	0.020	N.D.
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) **	1344-37-2	215-693-7	0.020	N.D.
28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.020	N.D.

The third eight Substances of Very High Concern (Released in Jun, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
29	Trichloroethylene	79-01-6	201-167-4	0.020	N.D.
30	Boric acid**	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.020	N.D.
31	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.020	N.D.
32	Tetraboron disodium heptaoxide, hydrate**	12267-73-1	235-541-3	0.020	N.D.
33	Sodium chromate**	7775-11-3	231-889-5	0.020	N.D.
34	Potassium chromate**	7789-00-6	232-140-5	0.020	N.D.
35	Ammonium dichromate**	7789-09-5	232-143-1	0.020	N.D.
36	Potassium dichromate**	7778-50-9	231-906-6	0.020	N.D.

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The fourth eight Substances of Very High Concern (Released in Dec, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)	
					A#	
37	Cobalt(II) sulphate**	10124-43-3	233-334-2	0.020	N.D.	
38	Cobalt(II) dinitrate**	10141-05-6	233-402-1	0.020	N.D.	
39	Cobalt(II) carbonate**	513-79-1	208-169-4	0.020	N.D.	
40	Cobalt(II) diacetate**	71-48-7	200-755-8	0.020	N.D.	
41	2-Methoxyethanol	109-86-4	203-713-7	0.020	N.D.	
42	2-Ethoxyethanol	110-80-5	203-804-1	0.020	N.D.	
43	Chromium trioxide**	1333-82-0	215-607-8	0.020	N.D.	
44	Acids generated from chromium trioxide and their oligomers	Chromic acid**	7738-94-5	231-801-5	0.020	N.D.
		Dichromic acid**	13530-68-2	236-881-5	0.020	N.D.
		Oligomers of chromic acid and dichromic acid**	--	--	0.020	N.D.

The fifth seven Substances of Very High Concern (Released in Jun, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
45	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.020	N.D.
46	Strontium chromate**	7789-06-2	232-142-6	0.020	N.D.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)*	68515-42-4	271-084-6	0.020	N.D.
48	Hydrazine	7803-57-8/ 302-01-2	206-114-9	0.020	N.D.
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.020	N.D.
50	1,2,3-Trichloropropane	96-18-4	202-486-1	0.020	N.D.
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	276-158-1	0.020	N.D.

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The sixth twenty Substances of Very High Concern (Released in Dec, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
52	Dichromium tris(chromate)**	24613-89-6	246-356-2	0.020	N.D.
53	Potassium hydroxyoctaoxidizincatedichromate**	11103-86-9	234-329-8	0.020	N.D.
54	Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.020	N.D.
55	Aluminosilicate Refractory Ceramic Fibres (RCF)**	--	--	0.020	N.D.
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	--	--	0.020	N.D.
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.020	N.D.
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	204-212-6	0.020	N.D.
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.020	N.D.
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.020	N.D.
61	1,2-Dichloroethane	107-06-2	203-458-1	0.020	N.D.
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.020	N.D.
63	Arsenic acid**	7778-39-4	231-901-9	0.020	N.D.
64	Calcium arsenate**	7778-44-1	231-904-5	0.020	N.D.
65	Trilead diarsenate**	3687-31-8	222-979-5	0.020	N.D.
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.020	N.D.
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.020	N.D.
68	Phenolphthalein	77-09-8	201-004-7	0.020	N.D.
69	Lead diazide Lead azide **	13424-46-9	236-542-1	0.020	N.D.
70	Lead styphnate**	15245-44-0	239-290-0	0.020	N.D.
71	Lead dipicrate**	6477-64-1	229-335-2	0.020	N.D.

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The seventh thirteen Substances of Very High Concern (Released in Jun, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
72	1,2-bis(2-methoxyethoxy)ethane(TEGDME; triglyme)	112-49-2	203-977-3	0.020	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.020	N.D.
74	Diboron trioxide**	1303-86-2	215-125-8	0.020	N.D.
75	Formamide	75-12-7	200-842-0	0.020	N.D.
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.020	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	0.020	N.D.
78	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.020	N.D.
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.020	N.D.
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.020	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	0.020	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	0.020	N.D.
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.020	N.D.
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.020	N.D.



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The eighth fifty-four Substances of Very High Concern (Released in Dec, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.020	N.D.
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.020	N.D.
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.020	N.D.
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.020	N.D.
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.020	N.D.
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	--	--	0.020	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	--	--	0.020	N.D.
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.020	N.D.
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.020	N.D.
94	Hexahydromethylphthalic anhy, 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	0.020	N.D.
95	Methoxy acetic acid	625-45-6	210-894-6	0.020	N.D.
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.020	N.D.
97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.020	N.D.
98	N-pentyl-isopentylphthalate	776297-69-9	--	0.020	N.D.
99	1,2-Diethoxyethane	629-14-1	211-076-1	0.020	N.D.
100	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.020	N.D.
101	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.020	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
102	Acetic acid, lead salt, basic**	51404-69-4	257-175-3	0.020	N.D.
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) **	1319-46-6	215-290-6	0.020	N.D.
104	Lead oxide sulfate (basic lead sulfate) **	12036-76-9	234-853-7	0.020	N.D.
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) **	69011-06-9	273-688-5	0.020	N.D.
106	Dioxobis(stearato)trilead**	12578-12-0	235-702-8	0.020	N.D.
107	Fatty acids, C16-18, lead salts**	91031-62-8	292-966-7	0.020	N.D.
108	Lead bis(tetrafluoroborate) **	13814-96-5	237-486-0	0.020	N.D.
109	Lead cyanamdate**	20837-86-9	244-073-9	0.020	N.D.
110	Lead dinitrate**	10099-74-8	233-245-9	0.020	N.D.
111	Lead oxide (lead monoxide) **	1317-36-8	215-267-0	0.020	N.D.
112	Lead tetroxide (orange lead) **	1314-41-6	215-235-6	0.020	N.D.
113	Lead titanium trioxide**	12060-00-3	235-038-9	0.020	N.D.
114	Lead Titanium Zirconium Oxide**	12626-81-2	235-727-4	0.020	N.D.
115	Pentalead tetraoxide sulphate**	12065-90-6	235-067-7	0.020	N.D.
116	Pyrochlore, antimony lead yellow**	8012 -00-8	232-382-1	0.020	N.D.
117	Silicic acid, barium salt, lead-doped**	68784-75-8	272-271-5	0.020	N.D.
118	Silicic acid, lead salt**	11120-22-2	234-363-3	0.020	N.D.
119	Sulfurous acid, lead salt, dibasic**	62229-08-7	263-467-1	0.020	N.D.
120	Tetraethyllead**	78-00-2	201-075-4	0.020	N.D.
121	Tetralead trioxide sulphate**	12202-17-4	235-380-9	0.020	N.D.
122	Trilead dioxide phosphonate**	12141-20-7	235-252-2	0.020	N.D.
123	Furan	110-00-9	203-727-3	0.020	N.D.
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.020	N.D.
125	Diethyl sulphate	64-67-5	200-589-6	0.020	N.D.
126	Dimethyl sulphate	77-78-1	201-058-1	0.020	N.D.
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.020	N.D.
128	Dinoseb	88-85-7	201-861-7	0.020	N.D.

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Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.020	N.D.
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.020	N.D.
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.020	N.D.
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.020	N.D.
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.020	N.D.
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.020	N.D.
135	o-aminoazotoluene	97-56-3	202-591-2	0.020	N.D.
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.020	N.D.
137	N-methylacetamide	79-16-3	201-182-6	0.020	N.D.
138	1-bromopropane; n-propyl bromide	106-94-5	203-445-0	0.020	N.D.

The ninth six Substances of Very High Concern (Released in Jun, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
139	Cadmium **	7440-43-9	231-152-8	0.020	N.D.
140	Cadmium oxide **	1306-19-0	215-146-2	0.020	N.D.
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.020	N.D.
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues]	/	/	0.020	N.D.
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.020	N.D.
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.020	N.D.

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The tenth seven Substances of Very High Concern (Released in Dec, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
145	Cadmium sulphide**	1306-23-6	215-147-8	0.020	N.D.
146	Dihexyl phthalate	84-75-3	201-559-5	0.020	N.D.
147	C.I. Direct Red 28	573-58-0	209-358-4	0.020	N.D.
148	C.I. Direct Black 38	1937-37-7	217-710-3	0.020	N.D.
149	2-imidazoline-2-thiol	96-45-7	202-506-9	0.020	N.D.
150	Lead di(acetate)**	301-04-2	206-104-4	0.020	N.D.
151	Trixylyl phosphate	25155-23-1	246-677-8	0.020	N.D.

The eleventh four Substances of Very High Concern (Released in Jun, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	Report Results (%)
					A#
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.020	N.D.
153	Cadmium chloride**	10108-64-2	233-296-7	0.020	N.D.
154	Sodium perborate; perboric acid, sodium salt**	-	239-172-9; 234-390-0	0.020	N.D.
155	Sodium peroxometaborate**	7632-04-4	231-556-4	0.020	N.D.

**Specimen Description:**

A#: TOUCH Screen mixed

**Note:**

 - mg/kg =ppm=10<sup>6</sup>

- %=w/w

- N.D. :&lt; Report Limit

- \*The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. according to the Annex 15 of REACH.

- \*\* According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.

# TEST REPORT

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- Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011.
- Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
- #According to the applicant's request, the admixture of specimen A is tested as a whole. The testing results of specimen A may be different from that of any sole material in specimen A.
- Photo is included

Photograph of Sample



TOUCH Screen

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