



Test Report

Number: SHAH00539650

Applicant: SHANGHAI SPARK TECHNOLOGY INDUSTRIAL, INC
RM.2504, NO.1 BUILDING NO.1878
WEST ZHONGSHAN RD. SHANGHAI, 200235,
CHINA
Attn: HUANG WEN JUN

Date: 25 Mar, 2015

Sample Description:

One(1) piece of submitted sample said to be : BLACK POTTING COMPOUND.
Item Name : **POTTING COMPOUND.**
Model No. : **CQ18P.**
Buyer : PHILIPS ELECTRONICS.

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted sample	EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details)	See test conducted

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai

Leo Shi
General Manager



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Tests Conducted

(I) SVHC Testing Results

(a) The First List (15 SVHC Released in Oct, 2008)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Cobalt Dichloride Δ	7646-79-9	ND
Diarsenic Pentaoxide Δ	1303-28-2	ND
Diarsenic Trioxide Δ	1327-53-3	ND
Lead Hydrogen Arsenate Δ	7784-40-9	ND
Triethyl Arsenate Δ	15606-95-8	ND
Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND
Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	ND
Anthracene	120-12-7	ND
4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND
Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	ND
5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	ND
Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	ND
Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	ND

(b) The Second List (13 SVHC Release in Jan, 2010 and Mar, 2010)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Lead Chromate Δ	7758-97-6	ND
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	ND
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND
Tris (2-Chloroethyl) Phosphate	115-96-8	ND
2,4-Dinitrotoluene	121-14-2	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
Coal Tar Pitch, High Temperature	65996-93-2	ND
Anthracene Oil	90640-80-5	ND
Anthracene Oil, Anthracene Paste, Distr. Lights	91995-17-4	ND
Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	ND
Anthracene Oil, Anthracene-low	90640-82-7	ND
Anthracene Oil, Anthracene Paste	90640-81-6	ND
Acrylamide	79-06-1	ND

To be continued

Tests Conducted

(c) The Third List (8 SVHC Release in Jun,2010)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Boric Acid Δ	10043-35-3, 11113-50-1	ND
Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	ND
Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	ND
Sodium Chromate Δ	7775-11-3	ND
Potassium Chromate Δ	7789-00-6	ND
Ammonium Dichromate Δ	7789-09-5	ND
Potassium Dichromate Δ	7778-50-9	ND
Trichloroethylene	79-01-6	ND

(d) The Fourth List (8 SVHC Release in Dec,2010)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
2-Methoxyethanol	109-86-4	ND
2-Ethoxyethanol	110-80-5	ND
Cobalt Sulphate Δ	10124-43-3	ND
Cobalt Dinitrate Δ	10141-05-6	ND
Cobalt Carbonate Δ	513-79-1	ND
Cobalt Diacetate Δ	71-48-7	ND
Chromium Trioxide Δ	1333-82-0	ND
Chromic Acid Δ	7738-94-5	ND
Dichromic Acid Δ	13530-68-2	ND
Oligomers of Chromic Acid and Dichromic Acid Δ	--	ND

(e) The Fifth List (7 SVHC Release in Jun, 2011)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Strontium ChromateΔ	7789-06-2	ND
2-ethoxyethyl acetate (2-EEA)	111-15-9	ND
1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ - branched and linear alkyl esters (DHNUP)	68515-42-4	ND
Hydrazine	7803-57-8 302-01-2	ND
1-methyl-2-pyrrolidone	872-50-4	ND
1,2,3-trichloropropane	96-18-4	ND
1,2-Benzenedicarboxylic acid, di-C ₆₋₈ - branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	ND

To be continued

Tests Conducted

(f) The Sixth List (20 SVHC Release in Dec, 2011)

Chemical Substance	CAS No.	Results % (w/w)
Lead dipicrate Δ	6477-64-1	ND
Lead styphnate Δ	15245-44-0	ND
Lead azide; Lead diazide Δ	13424-46-9	ND
Phenolphthalein	77-09-8	ND
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND
N,N-dimethylacetamide (DMAC)	127-19-5	ND
Trilead diarsenate Δ	3687-31-8	ND
Calcium arsenate Δ	7778-44-1	ND
Arsenic acid Δ	7778-39-4	ND
Bis(2-methoxyethyl) ether	111-96-6	ND
1,2-Dichloroethane	107-06-2	ND
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND
2-Methoxyaniline; o-Anisidine	90-04-0	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND
Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND
Pentazinc chromate octahydroxide Δ	49663-84-5	ND
Potassium hydroxyoctaoxodizincate di-chromate Δ	11103-86-9	ND
Dichromium tris(chromate) Δ	24613-89-6	ND
Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND
Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND

(g) The Seventh List (13 SVHC Release in Jun, 2012)

Chemical Substance	CAS No.	Results % (w/w)
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND
Diboron trioxide Δ	1303-86-2	ND
Formamide	75-12-7	ND
Lead(II) bis(methanesulfonate) Δ	17570-76-2	ND
TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	ND
β -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	ND
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND

Tests Conducted

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND
α,α -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND

(h) The Eighth List (54 SVHC Release in Dec, 2012)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND
Pentacosafuorotridecanoic acid	72629-94-8	ND
Tricosafuorododecanoic acid	307-55-1	ND
Henicosafuoroundecanoic acid	2058-94-8	ND
Heptacosafuorotetradecanoic acid	376-06-7	ND
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND
Cyclohexane-1,2-dicarboxylic anhydride [1]		ND
cis-cyclohexane-1,2-dicarboxylic anhydride [2]	85-42-7	
trans-cyclohexane-1,2-dicarboxylic anhydride [3]	13149-00-3	
[The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	14166-21-3	
Hexahydromethylphthalic anhydride [1],		ND
Hexahydro-4-methylphthalic anhydride [2],	25550-51-0	
Hexahydro-1-methylphthalic anhydride [3],	19438-60-9	
Hexahydro-3-methylphthalic anhydride [4]	48122-14-1	
[The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	57110-29-9	

Tests Conducted

Chemical Substance	CAS No.	Results % (w/w)
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]	--	ND
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	ND
Methoxyacetic acid	625-45-6	ND
N,N-dimethylformamide	68-12-2	ND
Dibutyltin dichloride (DBTC) Δ	683-18-1	ND
Lead monoxide (Lead oxide) Δ	1317-36-8	ND
Orange lead (Lead tetroxide) Δ	1314-41-6	ND
Lead bis(tetrafluoroborate) Δ	13814-96-5	ND
Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND
Lead titanium trioxideΔ	12060-00-3	ND
Lead titanium zirconium oxideΔ	12626-81-2	ND
Silicic acid, lead salt Δ	11120-22-2	ND
Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-dopedΔ [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	ND
1-bromopropane (n-propyl bromide)	106-94-5	ND
Methyloxirane (Propylene oxide)	75-56-9	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND
Diisopentylphthalate (DIPP)	605-50-5	ND
N-pentyl-isopentylphthalate	776297-69-9	ND
1,2-diethoxyethane	629-14-1	ND
Acetic acid, lead salt, basicΔ	51404-69-4	ND
Lead oxide sulfateΔ	12036-76-9	ND
[Phthalato(2-)]dioxotrileadΔ	69011-06-9	ND
Dioxobis(stearato)trileadΔ	12578-12-0	ND
Fatty acids, C16-18, lead saltsΔ	91031-62-8	ND
Lead cyanamidateΔ	20837-86-9	ND
Lead dinitrateΔ	10099-74-8	ND

Tests Conducted

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Pentalead tetraoxide sulphate Δ	12065-90-6	ND
Pyrochlore, antimony lead yellow Δ	8012-00-8	ND
Sulfurous acid, lead salt, dibasic Δ	62229-08-7	ND
Tetraethyllead Δ	78-00-2	ND
Tetralead trioxide sulphate Δ	12202-17-4	ND
Trilead dioxide phosphonate Δ	12141-20-7	ND
Furan	110-00-9	ND
Diethyl sulphate	64-67-5	ND
Dimethyl sulphate	77-78-1	ND
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND
4,4'-methylenedi-o-toluidine	838-88-0	ND
4,4'-oxydianiline and its salts	101-80-4	ND
4-aminoazobenzene	60-09-3	ND
4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND
6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND
Biphenyl-4-ylamine	92-67-1	ND
o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	ND
o-toluidine	95-53-4	ND
N-methylacetamide	79-16-3	ND

To be continued

Tests Conducted

(i) The ninth List (6 SVHC Release in Jun, 2013)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Cadmium Δ	7440-43-9	ND
Cadmium oxide Δ	1306-19-0	ND
Dipentyl phthalate (DPP)	131-18-0	ND
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]	--	ND
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND
Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND

(i) The tenth List (7 SVHC Release in Dec, 2013)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
Cadmium sulphide Δ	1306-23-6	ND
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND
Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND
Dihexyl phthalate	84-75-3	ND
Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND
Lead di(acetate) Δ	301-04-2	ND
Trixylyl phosphate	25155-23-1	ND

To be continued

Tests Conducted

(k) The eleventh List (4 SVHC Release in Jun, 2014)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND
Cadmium chloride Δ	10108-64-2	ND
Sodium perborate; Perboric acid, sodium salt Δ	--	ND
Sodium peroxometaborate Δ	7632-04-4	ND

(l) The twelfth List (6 SVHC Release in December, 2014)

<u>Chemical Substance</u>	<u>CAS No.</u>	<u>Results % (w/w)</u>
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	ND
Cadmium fluoride Δ	7790-79-6	ND
Cadmium sulphate Δ	10124-36-4; 31119-53-6	ND
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)	--	ND

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

 Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

As applicant's requirement, materials were screened in composite testing and results were reported in proportion with the whole product weight.

To be continued

Tests Conducted

(II) Testing Methods of SVHC

(a) The First List (15 SVHC Released in Oct, 2008)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
Cobalt Dichloride	By microwave digestion and determined by ICP-OES, further combustion and IC confirmation when necessary	0.010	0.050
Diarsenic Pentaoxide	By microwave digestion and determined by ICP-OES	0.010	0.050
Diarsenic Trioxide		0.010	0.050
Lead Hydrogen Arsenate		0.010	0.050
Triethyl Arsenate		0.010	0.050
Bis(Tributyltin) Oxide (TBTO)	By microwave digestion and determined by ICP-OES and by solvent extraction and determined by GC-MSD when necessary	0.010	0.050
Sodium Dichromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.010	0.050
Anthracene	By solvent extraction and determined by GC-MSD	0.010	0.050
4,4'-Diaminodiphenylmethane (MDA)		0.010	0.050
Hexabromocyclododecane (HBCDD)		0.010	0.050
5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)		0.010	0.050
Bis(2-Ethylhexyl) Phthalate (DEHP)		0.010	0.050
Dibutyl Phthalate (DBP)		0.010	0.050
Benzyl Butyl Phthalate (BBP)		0.010	0.050
Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	By solvent extraction and determined by GC-ECD	0.010	0.050

(b) The Second List (13 SVHC Released in Jan, 2010 and Mar, 2010)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
Lead Chromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.010	0.050
Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104)		0.010	0.050
Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)		0.010	0.050
Tris (2-Chloroethyl) Phosphate	By solvent extraction and determined by GC-MSD	0.010	0.050
2,4-Dinitrotoluene		0.010	0.050
Diisobutyl Phthalate (DIBP)		0.010	0.050
Coal Tar Pitch, High Temperature		0.010	0.050
Anthracene Oil		0.010	0.050
Anthracene Oil, Anthracene Paste, Distn. Lights		0.010	0.050
Anthracene Oil, Anthracene Paste, Anthracene Fraction		0.010	0.050
Anthracene Oil, Anthracene-low		0.010	0.050
Anthracene Oil, Anthracene paste		0.010	0.050
Acrylamide		0.010	0.050

To be continued

Tests Conducted

(c) The Third List (8 SVHC Released in Jun, 2010)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
Boric Acid	By microwave digestion and determined by ICP-OES	0.010	0.050
Disodium Tetraborate, Anhydrous		0.010	0.050
Tetraboron Disodium Heptaoxide, Hydrate		0.010	0.050
Sodium Chromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.010	0.050
Potassium Chromate		0.010	0.050
Ammonium Dichromate		0.010	0.050
Potassium Dichromate		0.010	0.050
Trichloroethylene	By solvent extraction and determined by GC-MSD	0.010	0.050

(d) The Fourth List (8 SVHC Released in Dec, 2010)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
2-Methoxyethanol	By solvent extraction and determined by GC-MSD	0.010	0.050
2-Ethoxyethanol		0.010	0.050
Cobalt Sulphate	By microwave digestion and determined by ICP-OES	0.010	0.050
Cobalt Dinitrate		0.010	0.050
Cobalt Carbonate		0.010	0.050
Cobalt Diacetate		0.010	0.050
Chromium Trioxide		0.010	0.050
Chromic Acid Dichromic Acid Oligomers Of Chromic Acid And Dichromic Acid	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.010	0.050

(e) The Fifth list (7 SVHC Released in Jun, 2011)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
Strontium Chromate	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.010	0.050
2-ethoxyethyl acetate (2-EEA)	By solvent extraction and determined by GC-MSD	0.010	0.050
1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)		0.010	0.050
Hydrazine		0.010	0.050
1-methyl-2-pyrrolidone		0.010	0.050
1,2,3-trichloropropane		0.010	0.050
1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)		0.010	0.050

To be continued

Tests Conducted

(f) The Sixth list (20 SVHC Released in Dec, 2011)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
Pentazinc chromate octahydroxide	By microwave digestion and determined by ICP-OES, further solvent extraction and UV-VIS confirmation when necessary	0.010	0.050
Potassium hydroxyoctaoxodizincate di-chromate		0.010	0.050
Dichromium tris(chromate)		0.010	0.050
Lead dipicrate	By microwave digestion and determined by ICP-OES	0.010	0.050
Lead azide; Lead diazide		0.010	0.050
Trilead diarsenate		0.010	0.050
Calcium arsenate		0.010	0.050
Lead styphnate		0.010	0.050
Arsenic acid		0.010	0.050
Aluminosilicate Refractory Ceramic Fibres		0.010	0.050
Zirconia Aluminosilicate Refractory Ceramic Fibres		0.010	0.050
2,2'-dichloro-4,4'-methylenedianiline (MOCA)	By solvent extraction and determined by GC-MSD	0.010	0.050
N,N-dimethylacetamide (DMAC)		0.010	0.050
Bis(2-methoxyethyl) ether		0.010	0.050
1,2-Dichloroethane		0.010	0.050
4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)		0.010	0.050
Bis(2-methoxyethyl) phthalate (DMEP)		0.010	0.050
Formaldehyde, oligomeric reaction products with aniline (technical MDA)		0.010	0.050
Phenolphthalein		0.010	0.050
2-Methoxyaniline; o-Anisidine		0.010	0.050

(g) The Seventh list (13 SVHC Released in Jun, 2012)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
Diboron trioxide	By microwave digestion and determined by ICP-OES	0.010	0.050
Lead(II) bis(methanesulfonate)		0.010	0.050
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	By solvent extraction and determined by GC-MSD	0.010	0.050
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)		0.010	0.050
Formamide		0.010	0.050
TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)		0.010	0.050
β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)		0.010	0.050
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)		0.010	0.050
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)		0.010	0.050
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)]		0.010	0.050

Tests Conducted

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>	
		<u>Raw material</u>	<u>Whole product</u>
α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	By solvent extraction and determined by HPLC	0.010	0.050
[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		0.010	0.050
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		0.010	0.050

(h) The Eighth List (54 SVHC Release in Dec, 2012)

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>	
		<u>Raw material</u>	<u>Whole product</u>
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	By solvent extraction and determined by GC-MS	0.010	0.050
Pentacosfluorotridecanoic acid	By solvent extraction and determined by LC-MS/MS	0.010	0.050
Tricosfluorododecanoic acid		0.010	0.050
Henicosfluoroundecanoic acid		0.010	0.050
Heptacosfluorotetradecanoic acid		0.010	0.050
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	By solvent extraction and determined by HPLC-DAD	0.010	0.050
Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	By solvent extraction and determined by GC-MSD	0.010	0.050
Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]		0.010	0.050

Tests Conducted

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
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]		0.010	0.050
4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	By solvent extraction and determined by LC-MS/MS	0.010	0.050
Methoxyacetic acid		0.010	0.050
Dibutyltin dichloride (DBTC)	By microwave digestion and determined by ICP-OES and by solvent extraction and determined by GC-MSD when necessary	0.010	0.050
Lead monoxide (Lead oxide)	By microwave digestion and determined by ICP-OES	0.010	0.050
Orange lead (Lead tetroxide)		0.010	0.050
Lead bis(tetrafluoroborate)		0.010	0.050
Trilead bis(carbonate)dihydroxide		0.010	0.050
Lead titanium trioxide		0.010	0.050
Lead titanium zirconium oxide		0.010	0.050
Silicic acid, lead salt		0.010	0.050
Silicic acid (H ₂ SiO ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]		0.010	0.050
N,N-dimethylformamide	By solvent extraction and determined by GC-MSD	0.010	0.050
1-bromopropane (n-propyl bromide)		0.010	0.050
Methyloxirane (Propylene oxide)		0.010	0.050
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear		0.010	0.050
Diisopentylphthalate (DIPP)		0.010	0.050
N-pentyl-isopentylphthalate		0.010	0.050
1,2-diethoxyethane		0.010	0.050
Acetic acid, lead salt, basic	By microwave digestion and determined by ICP-OES	0.010	0.050
Lead oxide sulfate		0.010	0.050
[Phthalato(2-)]dioxotrilead		0.010	0.050
Dioxobis(stearato)trilead		0.010	0.050
Fatty acids, C16-18, lead salts		0.010	0.050
Lead cyanamate		0.010	0.050
Lead dinitrate		0.010	0.050
Pentalead tetraoxide sulphate		0.010	0.050

Tests Conducted

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>	
		<u>Raw material</u>	<u>Whole product</u>
Pyrochlore, antimony lead yellow	By solvent extraction and determined by GC-MSD	0.010	0.050
Sulfurous acid, lead salt, dibasic		0.010	0.050
Tetraethyllead		0.010	0.050
Tetralead trioxide sulphate		0.010	0.050
Trilead dioxide phosphonate		0.010	0.050
Furan		0.010	0.050
Diethyl sulphate	By solvent extraction and determined by GC-MSD	0.010	0.050
Dimethyl sulphate		0.010	0.050
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		0.010	0.050
Dinoseb (6-sec-butyl-2,4-dinitrophenol)	By solvent extraction and determined by GC-MSD	0.010	0.050
4,4'-methylenedi-o-toluidine		0.010	0.050
4,4'-oxydianiline and its salts		0.010	0.050
4-aminoazobenzene		0.010	0.050
4-methyl-m-phenylenediamine (toluene-2,4-		0.010	0.050
6-methoxy-m-toluidine (p-cresidine)		0.010	0.050
Biphenyl-4-ylamine		0.010	0.050
o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]		0.010	0.050
o-toluidine		0.010	0.050
N-methylacetamide		0.010	0.050

(i) The ninth List (6 SVHC Release in Jun, 2013)

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>	
		<u>Raw material</u>	<u>Whole product</u>
Cadmium Δ	By microwave digestion and determined by ICP-OES	0.010	0.050
Cadmium oxide Δ		0.010	0.050
Dipentyl phthalate (DPP)	By solvent extraction and determined by GC-MSD	0.010	0.050
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]	By solvent extraction and determined by LC-MS/MS	0.010	0.050
Ammonium pentadecafluorooctanoate (APFO)		0.010	0.050
Pentadecafluorooctanoic acid (PFOA)		0.010	0.050

(j) The tenth List (7 SVHC Release in Dec, 2013)

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>	
		<u>Raw material</u>	<u>Whole product</u>

Tests Conducted

Cadmium sulphide Δ	By microwave digestion and determined by ICP-OES	0.010	0.050
Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	By solvent extraction and determined by LC-MS/MS	0.010	0.050
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)		0.010	0.050
Dihexyl phthalate	By solvent extraction and determined by GC-MSD	0.010	0.050
Imidazolidine-2-thione (2-imidazoline-2-thiol)		0.010	0.050
Lead di(acetate) Δ	By microwave digestion and determined by ICP-OES	0.010	0.050
Trixylyl phosphate	By solvent extraction and determined by GC-MSD	0.010	0.050

To be continued

Tests Conducted

(k) The eleventh List (4 SVHC Release in Jun, 2014)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	By solvent extraction and determined by GC-MSD	0.010	0.050
Cadmium chloride	By microwave digestion and determined by ICP-OES	0.010	0.050
Sodium perborate; perboric acid, sodium salt		0.010	0.050
Sodium peroxometaborate		0.010	0.050

(l) The twelfth List (6 SVHC Release in December, 2014)

Chemical Substance	Method	Reporting limit(%)	
		Raw material	Whole product
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	By solvent extraction and determined by GC-MSD	0.010	0.050
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)		0.010	0.050
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	By microwave digestion and determined by ICP-OES and by solvent extraction and determined by GC-MSD when necessary	0.010	0.050
Cadmium fluoride Δ	By microwave digestion and determined by ICP-OES	0.010	0.050
Cadmium sulphate Δ		0.010	0.050
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)	By microwave digestion and determined by ICP-OES and by solvent extraction and determined by GC-MSD when necessary	0.010	0.050

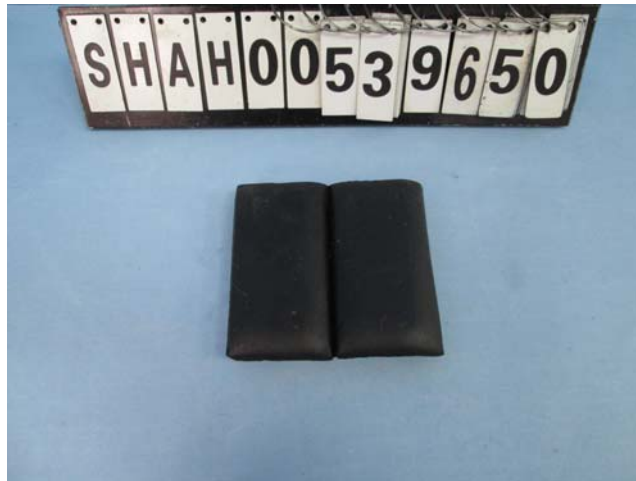
Reporting limit = Quantitation limit of analyte in sample

REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

To be continued

Tests Conducted



Picture of sample

Date Sample Received: Mar.18, 2015
Testing Period: Mar.18, 2015 To Mar.24, 2015

End of report

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