



Test Report

Number: SZHH00932365

Applicant: JIANGMEN TOYO INK CO., LTD
NO.32-33 LONGWAN WEST ROAD,JIANGMEN
CITY,GUANGDONG PROVINCE,CHINA

Date: Jan 24, 2015

Attn: MISS YANG

Sample Description:

One (1) submitted sample said to be **Finishing Varnish.**

Other Information : Mixed Sample of F-65EBK,F-83-LT,F-1500,F-151,F-38,F-T38 Series Finishing Varnish/F-65EBK,F-83-LT,F-1500,F-151,F-38,F-T38 系列光油混合样.



Tests conducted:

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

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
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)	Meet requirement

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.

 

Ben N.L. Lin
General Manager



Tests Conducted

(I) SVHC Testing Results

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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	0.018
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)

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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, Distn. 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



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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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)

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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 Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	ND

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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



Tests Conducted

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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 dichromate 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



Tests Conducted

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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
[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



Tests Conducted

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND
Pentacosfluorotridecanoic acid	72629-94-8	ND
Tricosfluorododecanoic acid	307-55-1	ND
Henicosfluoroundecanoic acid	2058-94-8	ND
Heptacosfluorotetradecanoic acid	376-06-7	ND
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND
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].	85-42-7 13149-00-3 14166-21-3	ND
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]	25550-51-0 19438-60-9 48122-14-1 57110-29-9	ND
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



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Chemical Substance	CAS No.	Results % (w/w)
		(1)
Methoxyacetic acid	625-45-6	ND
N,N-dimethylformamide	68-12-2	0.014
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



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Chemical Substance	CAS No.	Results % (w/w)
		(1)
Lead cyanamate Δ	20837-86-9	ND
Lead dinitrate Δ	10099-74-8	ND
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



Tests Conducted

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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



Tests Conducted

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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 (DnHP)	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

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

Chemical Substance	CAS No.	Results % (w/w)
		(1)
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	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

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Tests Conducted

(I) The twelfth List (6 SVHC Release in Dec, 2014)

Chemical Substance	CAS No.	Results % (w/w)
		(1)
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)	15571-58-1; 27107-89-7	ND

The result is based on dry weight of testing sample

- 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.

(II) Tested sample : (1) Semi-transparent light yellow wet paint.

Date sample received : Jan 19, 2015
 Testing period : Jan 19, 2015 to Jan 23, 2015



Tests Conducted

(III) Testing Methods of SVHC

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

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

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

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



Tests Conducted

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

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

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

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

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

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



Tests Conducted

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

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

Tests Conducted

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

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
Diboron trioxide	By microwave digestion and determined by ICP-OES	0.010
Lead(II) bis(methanesulfonate)		0.010
1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	By solvent extraction and determined by GC-MSD	0.010
1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)		0.010
Formamide		0.010
TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)		0.010
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
4,4'-bis(dimethylamino)benzophenone (Michler's ketone)		0.010
N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)		0.010
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
α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]		By solvent extraction and determined by LC-MS/MS
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	0.010	
[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	0.010	

Tests Conducted

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

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	By solvent extraction and determined by GC-MS	0.010
Pentacosafluorotridecanoic acid	By solvent extraction and determined by LC-MS/MS	0.010
Tricosfluorododecanoic acid		0.010
Henicosfluoroundecanoic acid		0.010
Heptacosfluorotetradecanoic acid		0.010
Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	By solvent extraction and determined by HPLC-DAD	0.010
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
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
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
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
Methoxyacetic acid		0.010



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<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
Dibutyltin dichloride (DBTC)	By microwave digestion and determined by ICP-OES	0.010
Lead monoxide (Lead oxide)		0.010
Orange lead (Lead tetroxide)		0.010
Lead bis(tetrafluoroborate)		0.010
Trilead bis(carbonate)dihydroxide		0.010
Lead titanium trioxide		0.010
Lead titanium zirconium oxide		0.010
Silicic acid, lead salt		0.010
Silicic acid (H ₂ Si ₂ O 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
N,N-dimethylformamide	By solvent extraction and determined by GC-MSD	0.010
1-bromopropane (n-propyl bromide)		0.010
Methyloxirane (Propylene oxide)		0.010
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear		0.010
Diisopentylphthalate (DIPP)		0.010
N-pentyl-isopentylphthalate		0.010
1,2-diethoxyethane		0.010
Acetic acid, lead salt, basic	By microwave digestion and determined by ICP-OES	0.010
Lead oxide sulfate		0.010
[Phthalato(2-)]dioxotrilead		0.010
Dioxobis(stearato)trilead		0.010
Fatty acids, C16-18, lead salts		0.010
Lead cyanamate		0.010
Lead dinitrate		0.010
Pentalead tetraoxide sulphate		0.010
Pyrochlore, antimony lead yellow		0.010
Sulfurous acid, lead salt, dibasic		0.010
Tetraethyllead		0.010
Tetralead trioxide sulphate	0.010	
Trilead dioxide phosphonate	0.010	



Tests Conducted

Furan	By solvent extraction and determined by GC-MSD	0.010
Diethyl sulphate		0.010
Dimethyl sulphate		0.010
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine		0.010
Dinoseb (6-sec-butyl-2,4-dinitrophenol)		0.010
4,4'-methylenedi-o-toluidine		0.010
4,4'-oxydianiline and its salts		0.010
4-aminoazobenzene		0.010
4-methyl-m-phenylenediamine (toluene-2,4-		0.010
6-methoxy-m-toluidine (p-cresidine)		0.010
Biphenyl-4-ylamine		0.010
o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]		0.010
o-toluidine		0.010
N-methylacetamide		0.010

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

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



Tests Conducted

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

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
Cadmium sulphide Δ	By microwave digestion and determined by ICP-OES	0.010
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
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
Dihexyl phthalate (DHP)	By solvent extraction and determined by GC-MSD	0.010
Imidazolidine-2-thione (2-imidazoline-2-thiol)		0.010
Lead di(acetate) Δ	By microwave digestion and determined by ICP-OES	0.010
Trixylyl phosphate	By solvent extraction and determined by GC-MSD	0.010

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

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	By solvent extraction and determined by GC-MSD	0.010
Cadmium chloride	By microwave digestion and determined by ICP-OES	0.010
Sodium perborate; perboric acid, sodium salt		0.010
Sodium peroxometaborate		0.010



Tests Conducted

(I) The twelfth List (6 SVHC Release in Dec, 2014)

<u>Chemical Substance</u>	<u>Method</u>	<u>Reporting limit(%)</u>
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	By solvent extraction and determined by GC-MSD	0.010
2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)		0.010
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate (DOTE)	By microwave digestion and determined by ICP-OES and by solvent extraction and determined by GC-MSD when necessary	0.010
Cadmium fluoride Δ	By microwave digestion and determined by ICP-OES	0.010
Cadmium sulphate Δ		0.010
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatradecanoate (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

Reporting limit = Quantitation limit of analyte in sample





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Notes:

1. Substances of very high concern (SVHC) are classified as:
 - a. Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)
 - b. Persistent, bioaccumulative and toxic chemicals (PBT)
 - c. Very persistent and very bioaccumulative chemicals (vPvB)
 - d. Other similar substances such as endocrine disrupters
2. If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:
 - a. Identification of the registrant and the substance
 - b. Classification and labelling of the substance
 - c. Description of use of the substance and the article
 - d. Registration number, if available
 - e. Tonnage range

REACH requirement:

As per article 31 of regulation (EC) No. 1907/2006 (REACH), suppliers of mixtures not classified as dangerous according to directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the mixtures contain at least one substance on the SVHC candidate list and its individual concentration is 0.1%(w/w) or above for non-gaseous preparations.

End of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

