

Sample Photo



TEST REPORT

Number: GZHT02637581

Applicant: WENZHOU GONGSHENG DIGITAL TECHNOLOGY
CO.,LTD
MIAOBEI VILLAGE, SANJIANG DISTRICT,
YONGJIA COUNTY, WENZHOU CITY,
ZHEJIANG PROVINCE, CHINA

Date: Sep 29, 2022

Attn: 陈跃炜

Sample Description As Declared :

No. Of Sample : Five
Fibre Content : Polyester
Material : Woven Fabric, marked as (A-D)
Inkjet ink, marked as (E)
Finishing : -
End Uses : Home textiles, Swimwear
Season : -
Colour : (A) Black
(B) Blue
(C) Pink
(D) Yellow
(E) Black
Style No. : -
Order No./PO No. : -
Buyer's Name : -
Manufacturer's Name : -
Ref. : -

Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd.Guangzhou Branch



James Ma
Textile lab Senior Manager

Alex / yolandayang



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Applicant's Provided Care Instruction/Label :

-

Date Received/Date Test Started : Sep 08, 2022

Date Final Information Confirmed: -

Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd.Guangzhou Branch



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Textile lab Senior Manager

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Conclusion:

	(A)	(B)	(C)	(D)	(E)
Color Fastness To Washing	M	M	M	M	-
Color Fastness To Crocking	M	M	M	M	-
Color Fastness To Light	-	-	-	M	-
Color Fastness To Perspiration	M	M	M	M	-
Color Fastness To Non-Chlorine Bleach As Received	M	M	M	M	-
Color Fastness To Dye Transfer In Storage	M	M	M	M	-
RoHS Chemical Test	-	-	-	-	M
SVHCS-224+1	-	-	-	-	M

Note : M = Commercially Acceptable
= No Comment
C = Conform Label
- = Did Not Perform

F = Commercially Unacceptable
N/A = Not Applicable
* = See Remark

Remark:

No sample is submitted for testing. All the test results mentioned in this report are referred to previous report no. GZHT02628382, dated Sep 23, 2022.

Prepared And Checked By:
For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch



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Tests Conducted (As Requested By The Applicant)

- 1 Color Fastness To Washing (AATCC TM61-2013e(2020), Test No. 1A, 45 Minutes Mechanical Wash At 105°F In 0.37% AATCC WOB Detergent Solution With 10 Steel Balls):

	(A)	(B)	(C)	(D)
Color Change	4.5	4.5	4.5	4.5
Color Staining				
-Acetate	4	4	4	4.5
-Cotton	4.5	4.5	4.5	4.5
-Nylon	4	4	4	4.5
-Polyester	4.5	4.5	4.5	4.5
-Acrylic	4.5	4.5	4.5	4.5
-Wool	4.5	4.5	4.5	4.5

- 2 Color Fastness To Crocking (AATCC TM8-2016e):

	(A)	(B)	(C)	(D)
Dry	4	4.5	4.5	4.5
Wet	4.5	4.5	4.5	4.5

- 3 Color Fastness To Light (AATCC TM16.3-2020, Option 3, Xenon-Arc Lamp):

	(D)
<u>40 AATCC Fading Unit (AFU) Exposure</u>	
Grade	4.5

- 4 Color Fastness To Perspiration (AATCC TM15-2013e):

	(A)	(B)	(C)	(D)
Color Change	4.5	4.5	4.5	4.5
Color Staining				
-Acetate	4	4	4.5	4.5
-Cotton	4.5	4.5	4.5	4.5
-Nylon	4	4	4.5	4.5
-Polyester	4.5	4.5	4.5	4.5
-Acrylic	4.5	4.5	4.5	4.5
-Wool	4.5	4.5	4.5	4.5

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Tests Conducted (As Requested By The Applicant)

- 5 Color Fastness To Non-Chlorine Bleach (AATCC TS001:2008, Soak With 1.88% Clorox 2 For 1 Minute For Part 1, Spot With One Drop Of Liquid Clorox 2 And Wait For 5 Minutes For Part 2):

	(A)	(B)	(C)	(D)
<u>Part 1</u>				
Color Change	4.5	4.5	4.5	4.5
<u>Part 2</u>				
Color Change	4.5	4.5	4.5	4.5

- 6 Color Fastness To Dye Transfer In Storage (AATCC TM163-2013(2020)e, Option 2):

	(A)	(B)	(C)	(D)
Color Change	4.5	4.5	4.5	4.5
Color Staining				
-Acetate	4.5	4.5	4.5	4.5
-Cotton	4.5	4.5	4.5	4.5
-Nylon	4.5	4.5	4.5	4.5
-Polyester	4.5	4.5	4.5	4.5
-Acrylic	4.5	4.5	4.5	4.5
-Wool	4.5	4.5	4.5	4.5
White Polyester Cloth	4.5	4.5	4.5	4.5

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Tests Conducted (As Requested By The Applicant)

7 RoHS Chemical Test

(A) Test Result Summary:

<u>Test item</u>	<u>Result</u>
	(1)
Cadmium (Cd) Content (mg/kg)	ND
Lead (Pb) Content (mg/kg)	ND
Mercury (Hg) Content (mg/kg)	ND
Chromium (VI)(Cr ⁶⁺) Content (mg/kg)	ND
Polybrominated Biphenyls (PBBs) Content (mg/kg)	
Monobromobiphenyl (MonoBB)	ND
Dibromobiphenyl (DiBB)	ND
Tribromobiphenyl (TriBB)	ND
Tetrabromobiphenyl (TetraBB)	ND
Pentabromobiphenyl (PentaBB)	ND
Hexabromobiphenyl (HexaBB)	ND
Heptabromobiphenyl (HeptaBB)	ND
Octabromobiphenyl (OctaBB)	ND
Nonabromobiphenyl (NonaBB)	ND
Decabromobiphenyl (DecaBB)	ND
Polybrominated Diphenyl Ethers Content (PBDEs)(mg/kg)	
Monobromodiphenyl Ether (MonoBDE)	ND
Dibromodiphenyl Ether (DiBDE)	ND
Tribromodiphenyl Ether (TriBDE)	ND
Tetrabromodiphenyl Ether (TetraBDE)	ND
Pentabromodiphenyl Ether (PentaBDE)	ND
Hexabromodiphenyl Ether (HexaBDE)	ND
Heptabromodiphenyl Ether (HeptaBDE)	ND
Octabromodiphenyl Ether (OctaBDE)	ND
Nonabromodiphenyl Ether (NonaBDE)	ND
Decabromodiphenyl Ether (DecaBDE)	ND
Phthalates Content (mg/kg)	
Bis(2-ethylhexyl)phthalate(DEHP)	ND
Butyl benzyl phthalate(BBP)	ND
Dibutyl phthalate(DBP)	ND
Diisobutyl phthalate(DIBP)	ND

ND = Not detected

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Tests Conducted (As Requested By The Applicant)

(B) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates(DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

(C) Test Method:

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.1:2017, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer	10 mg/kg
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates(DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017, by solvent extraction and determined by GC/MS	100mg/kg

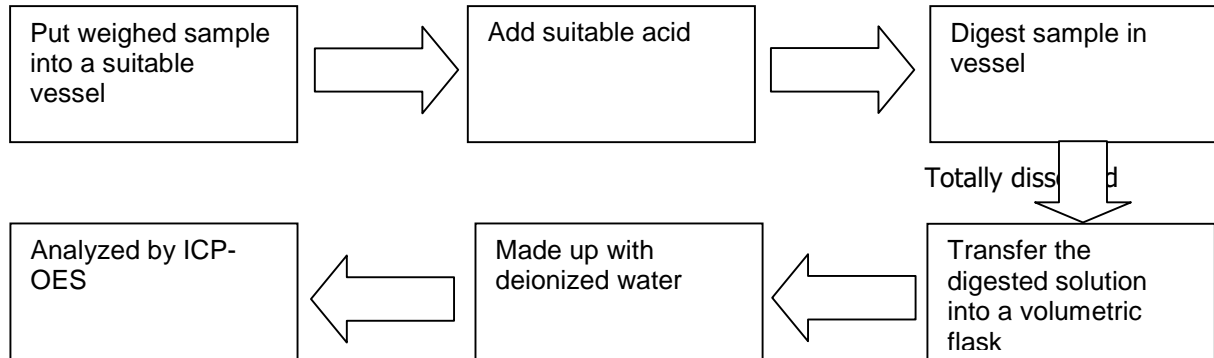
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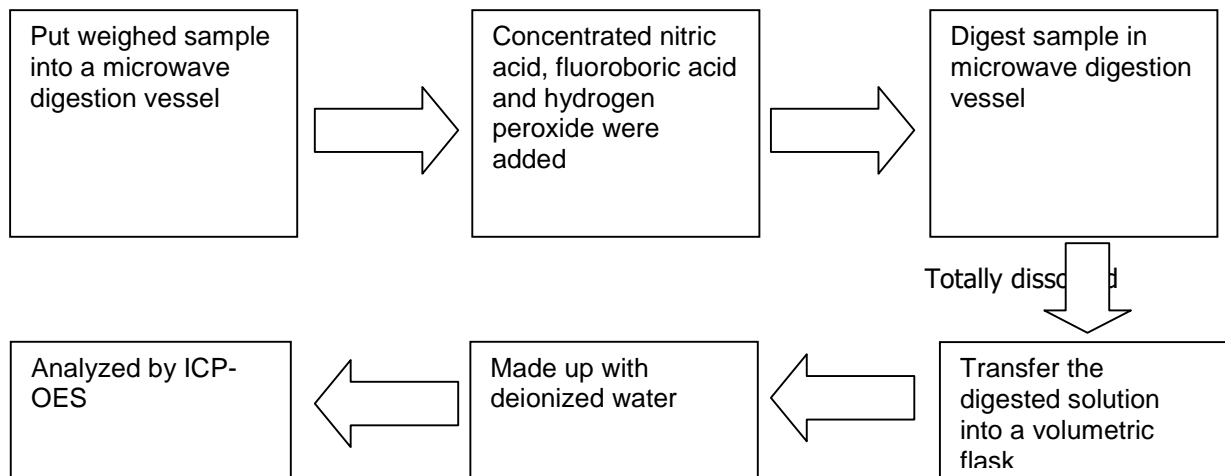
Tests Conducted (As Requested By The Applicant)

(D) Measurement Flowchart:

1. Test for Cd/Pb Contents



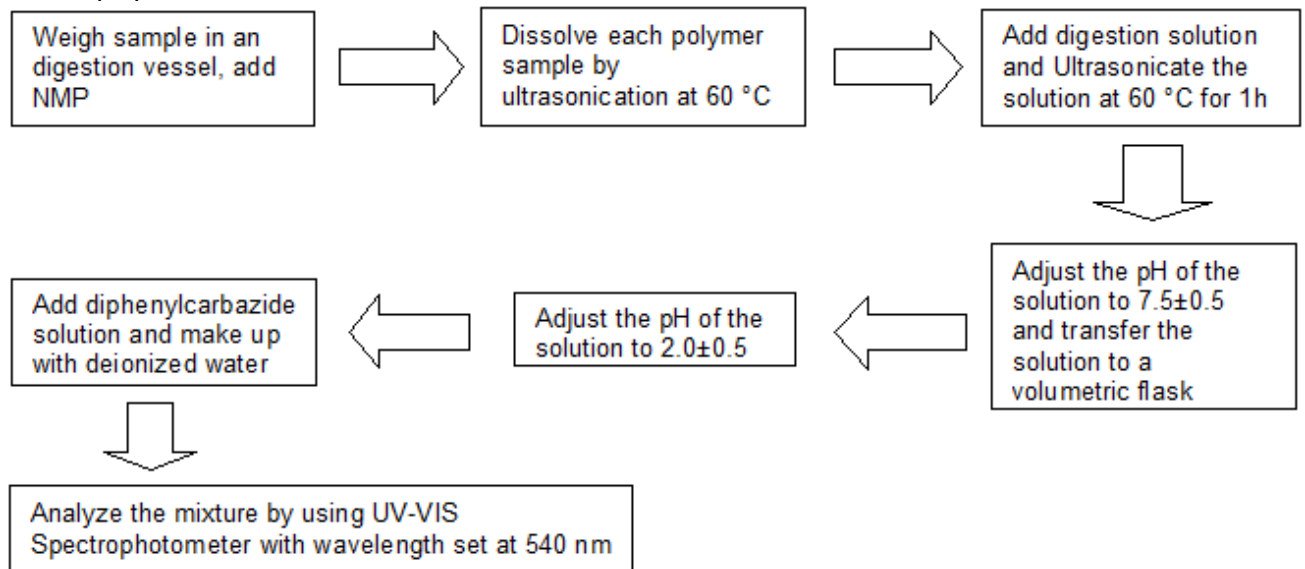
2. Test for Hg Content



Tests Conducted (As Requested By The Applicant)

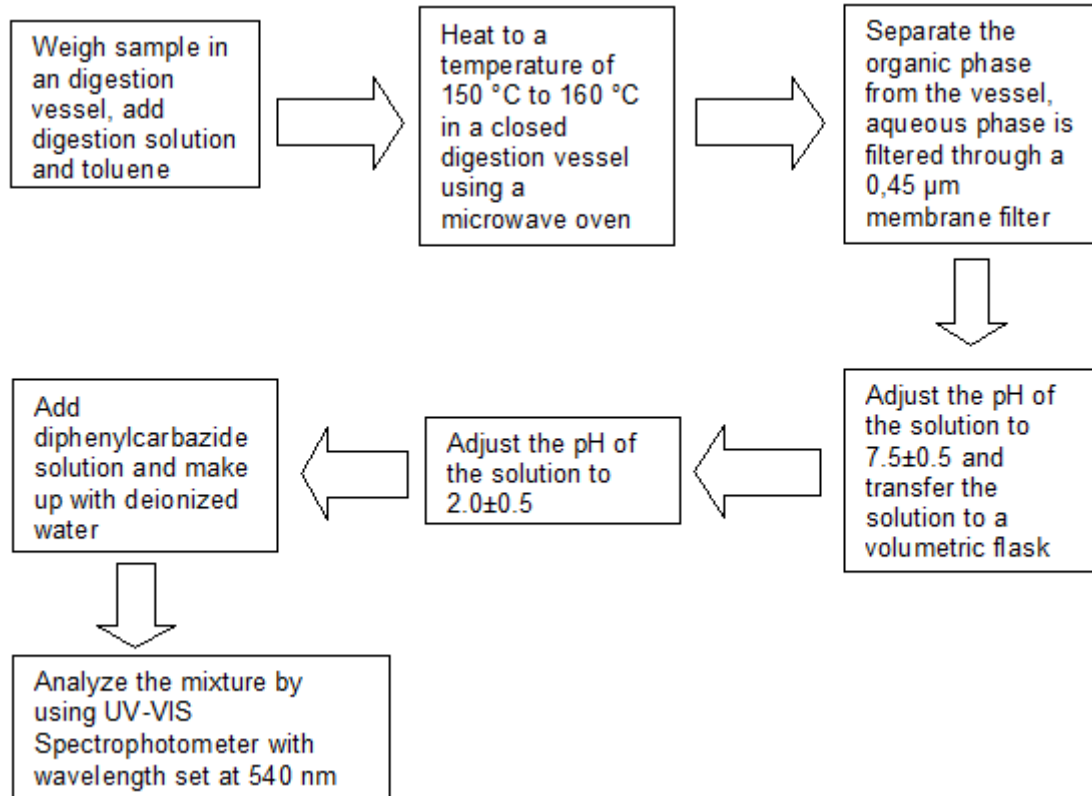
3. Test for Chromium (VI) (Cr^{6+}) Content

Soluble polymers



Tests Conducted (As Requested By The Applicant)

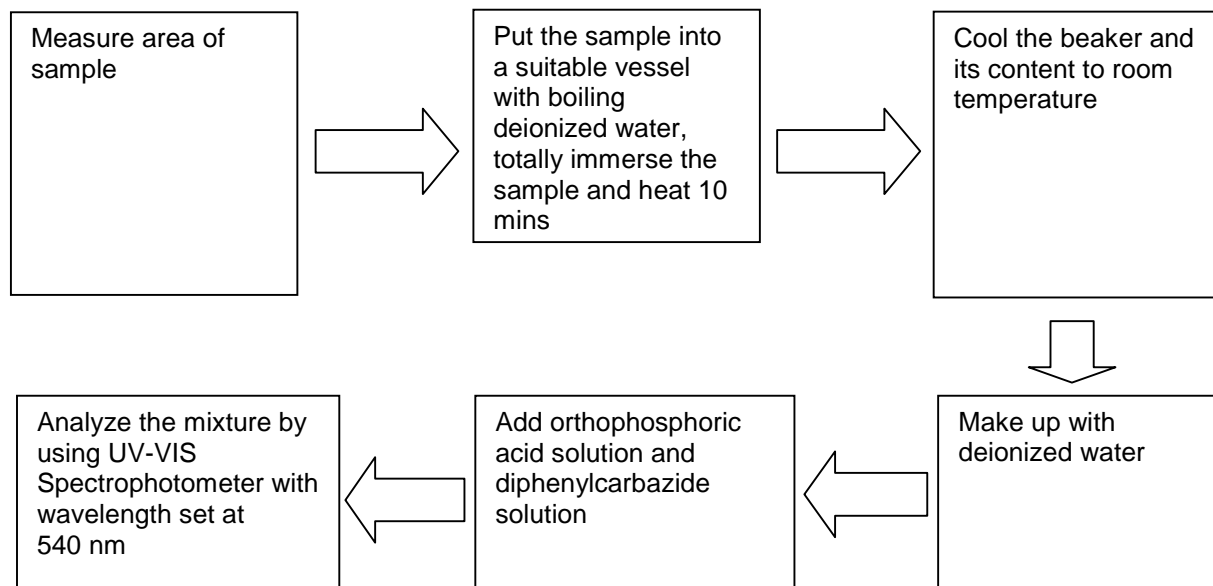
Insoluble/unknown polymers and electronics without Sb



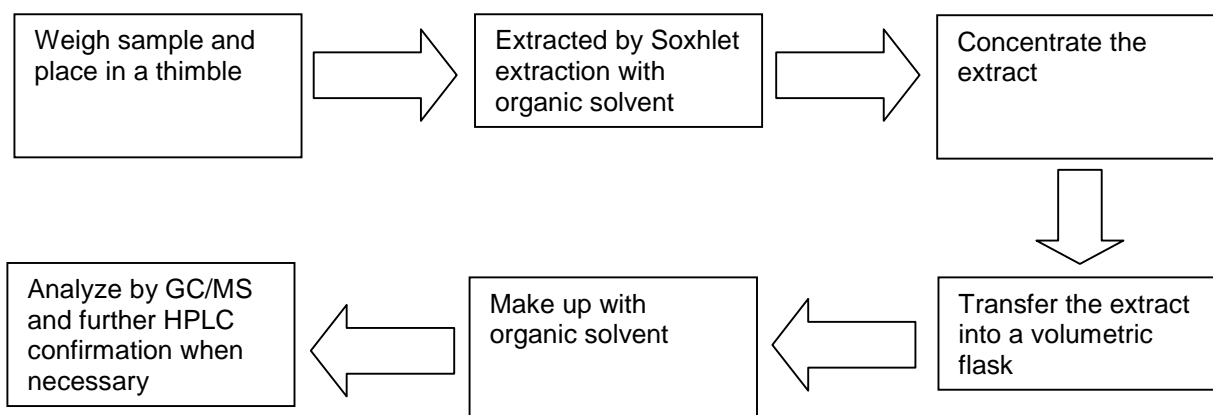
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Tests Conducted (As Requested By The Applicant)

4. Test for Chromium (VI) (Cr⁶⁺) Content (Boiling Water Extraction)

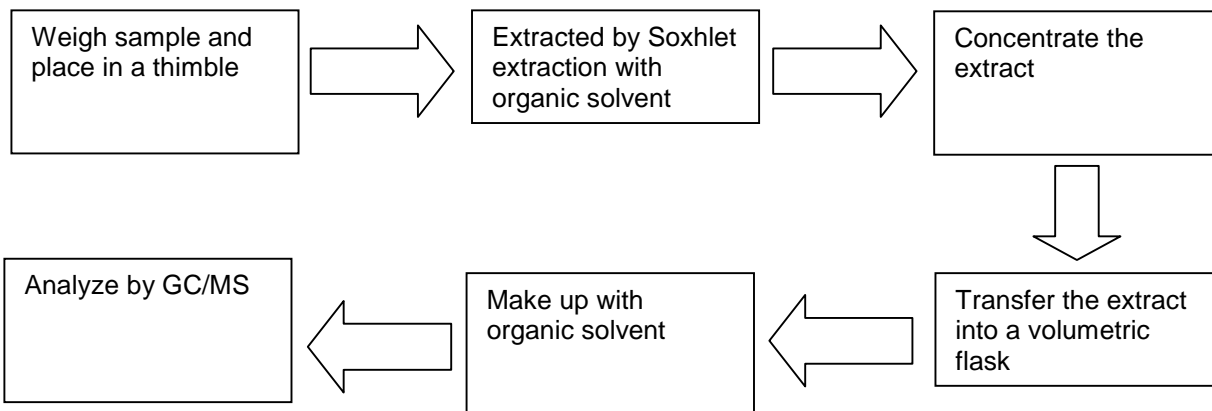


5. Test for PBBs/PBDEs Contents



Tests Conducted (As Requested By The Applicant)

6. Test for Phthalate Contents



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Tests Conducted (As Requested By The Applicant)

8 SVHC Testing:

By a combination of Inductively Coupled Argon Plasma Spectrometry, Gas Chromatography – Mass Spectrometry, Liquid Chromatography - Mass Spectrometry, UV-VIS Spectrophotometer, Gas Chromatography - Electron Capture Detector, Headspace Gas Chromatography - Mass Spectrometry and High-Performance Liquid Chromatography.

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

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
1	Cobalt Dichloride Δ	7646-79-9	ND
2	Diarsenic Pentaoxide Δ	1303-28-2	ND
3	Diarsenic Trioxide Δ	1327-53-3	ND
4	Lead Hydrogen Arsenate Δ	7784-40-9	ND
5	Triethyl Arsenate Δ	15606-95-8	ND
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	ND
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	ND
8	Anthracene	120-12-7	ND
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND
10	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
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	ND
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND
13	Dibutyl Phthalate (DBP)	84-74-2	ND
14	Benzyl Butyl Phthalate (BBP)	85-68-7	ND
15	Short Chain Chlorinated Paraffins (C ₁₀₋₁₃)	85535-84-8	ND

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Tests Conducted (As Requested By The Applicant)

(b) The Second List (13 SVHC Release in January, 2010 and March, 2010)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
16	Lead Chromate Δ	7758-97-6	ND
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) Δ	12656-85-8	ND
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	ND
19	Tris (2-Chloroethyl) Phosphate	115-96-8	ND
20	2,4-Dinitrotoluene	121-14-2	ND
21	Diisobutyl Phthalate (DIBP)	84-69-5	ND
22	Coal Tar Pitch, High Temperature	65996-93-2	ND
23	Anthracene Oil	90640-80-5	ND
24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	ND
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	ND
26	Anthracene Oil, Anthracene-low	90640-82-7	ND
27	Anthracene Oil, Anthracene Paste	90640-81-6	ND
28	Acrylamide	79-06-1	ND

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

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

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

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
37	2-Methoxyethanol	109-86-4	ND
38	2-Ethoxyethanol	110-80-5	ND
39	Cobalt Sulphate Δ	10124-43-3	ND
40	Cobalt Dinitrate Δ	10141-05-6	ND
41	Cobalt Carbonate Δ	513-79-1	ND
42	Cobalt Diacetate Δ	71-48-7	ND
43	Chromium Trioxide Δ	1333-82-0	ND
44	Chromic Acid Δ	7738-94-5	ND
	Dichromic Acid Δ	13530-68-2	
	Oligomers of Chromic Acid and Dichromic Acid Δ	--	

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

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
45	Strontium ChromateΔ	7789-06-2	ND
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	ND
47	1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ -branched and linear alkyl esters (DHNUP)	68515-42-4	ND
48	Hydrazine	7803-57-8	ND
		302-01-2	
49	1-methyl-2-pyrrolidone	872-50-4	ND
50	1,2,3-trichloropropane	96-18-4	ND
51	1,2-Benzenedicarboxylic acid, di-C ₆₋₈ -branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	ND

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

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
52	Lead dipicrate Δ	6477-64-1	ND
53	Lead styphnate Δ	15245-44-0	ND
54	Lead azide; Lead diazide Δ	13424-46-9	ND
55	Phenolphthalein	77-09-8	ND
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND
57	N,N-dimethylacetamide (DMAC)	127-19-5	ND
58	Trilead diarsenate Δ	3687-31-8	ND
59	Calcium arsenate Δ	7778-44-1	ND
60	Arsenic acid Δ	7778-39-4	ND
61	Bis(2-methoxyethyl) ether	111-96-6	ND
62	1,2-Dichloroethane	107-06-2	ND
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND
64	2-Methoxyaniline; o-Anisidine	90-04-0	ND
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND
67	Pentazinc chromate octahydroxide Δ	49663-84-5	ND
68	Potassium hydroxyoctaoxidizincate di-chromate Δ	11103-86-9	ND
69	Dichromium tris(chromate) Δ	24613-89-6	ND
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	ND

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Tests Conducted (As Requested By The Applicant)

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

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND
74	Diboron trioxide Δ	1303-86-2	ND
75	Formamide	75-12-7	ND
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	ND
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	ND
78	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
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND
81	[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
82	[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
83	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
84	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

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

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND
86	Pentacosafuorotridecanoic acid	72629-94-8	ND
87	Tricosafuorododecanoic acid	307-55-1	ND
88	Henicosafuoroundecanoic acid	2058-94-8	ND
89	Heptacosafuorotetradecanoic acid	376-06-7	ND
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND
91	Cyclohexane-1,2-dicarboxylic anhydride [1]	85-42-7	ND
	cis-cyclohexane-1,2-dicarboxylic anhydride [2]	13149-00-3	
	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].	14166-21-3	
92	Hexahydromethylphthalic anhydride [1],	25550-51-0	ND
	Hexahydro-4-methylphthalic anhydride [2],	19438-60-9	
	Hexahydro-1-methylphthalic anhydride [3],	48122-14-1	
	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]	57110-29-9	

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93	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
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	ND
95	Methoxyacetic acid	625-45-6	ND
96	N,N-dimethylformamide	68-12-2	ND
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	ND
98	Lead monoxide (Lead oxide) Δ	1317-36-8	ND
99	Orange lead (Lead tetroxide) Δ	1314-41-6	ND
100	Lead bis(tetrafluoroborate) Δ	13814-96-5	ND
101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	ND
102	Lead titanium trioxideΔ	12060-00-3	ND
103	Lead titanium zirconium oxideΔ	12626-81-2	ND
104	Silicic acid, lead salt Δ	11120-22-2	ND
105	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
106	1-bromopropane (n-propyl bromide)	106-94-5	ND
107	Methyloxirane (Propylene oxide)	75-56-9	ND
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND
109	Diisopentylphthalate (DIPP)	605-50-5	ND
110	N-pentyl-isopentylphthalate	776297-69-9	ND

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111	1,2-diethoxyethane	629-14-1	ND
112	Acetic acid, lead salt, basicΔ	51404-69-4	ND
113	Lead oxide sulfateΔ	12036-76-9	ND
114	[Phthalato(2-)]dioxotrileadΔ	69011-06-9	ND
115	Dioxobis(stearato)trileadΔ	12578-12-0	ND
116	Fatty acids, C16-18, lead saltsΔ	91031-62-8	ND
117	Lead cyanamidateΔ	20837-86-9	ND
118	Lead dinitrateΔ	10099-74-8	ND
119	Pentalead tetraoxide sulphateΔ	12065-90-6	ND
120	Pyrochlore, antimony lead yellowΔ	8012-00-8	ND
121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7	ND
122	TetraethylleadΔ	78-00-2	ND
123	Tetralead trioxide sulphateΔ	12202-17-4	ND
124	Trilead dioxide phosphonateΔ	12141-20-7	ND
125	Furan	110-00-9	ND
126	Diethyl sulphate	64-67-5	ND
127	Dimethyl sulphate	77-78-1	ND
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND
130	4,4'-methylenedi-o-toluidine	838-88-0	ND
131	4,4'-oxydianiline and its salts	101-80-4	ND
132	4-aminoazobenzene	60-09-3	ND
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND
135	Biphenyl-4-ylamine	92-67-1	ND
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	ND
137	o-toluidine	95-53-4	ND
138	N-methylacetamide	79-16-3	ND

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(i) The Ninth List (6 SVHC Release in June, 2013)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
139	Cadmium Δ	7440-43-9	ND
140	Cadmium oxide Δ	1306-19-0	ND
141	Dipentyl phthalate (DPP)	131-18-0	ND
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, which include any of the individual isomers and/or combinations thereof]	--	ND
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND

(j) The Tenth List (7 SVHC Release in December, 2013)

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

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(k) The Eleventh List (4 SVHC Release in June, 2014)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND
153	Cadmium chloride Δ	10108-64-2	ND
154	Sodium perborate; Perboric acid, sodium salt Δ	15120-21-5; 11138-47-9	ND
155	Sodium peroxometaborate Δ	7632-04-4	ND

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

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) Δ	15571-58-1	ND
159	Cadmium fluoride Δ	7790-79-6	ND
160	Cadmium sulphate Δ	10124-36-4; 31119-53-6	ND
161	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) Δ	--	ND

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(m) The Thirteenth List (2 SVHC Release in June, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	(1) ND
163	5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	ND

(n) The Fourteenth List (5 SVHC Release in December, 2015)

No.	Chemical Substance	CAS No.	Results % (w/w)
164	1,3-Propanesultone	1120-71-4	(1) ND
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	ND
166	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND
167	Nitrobenzene	98-95-3	ND
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1; 21049-39-8; 4149-60-4	ND

(o) The Fifteenth List (1 SVHC Release in June, 2016)

No.	Chemical Substance	CAS No.	Results % (w/w)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	(1) ND

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(p) The Sixteenth List (4 SVHC Release in January, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	(1) ND
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	--	ND
	Nonadecafluorodecanoic acid EC no.: 206-400-3 CAS no.: 335-76-2		
	Ammonium nonadecafluorodecanoate EC no.: 221-470-5 CAS no.: 3108-42-7		
172	Decanoic acid, nonadecafluoro-, sodium salt EC no.: -- CAS no.: 3830-45-3		
172	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--	ND
173	p-(1,1-dimethylpropyl)phenol	80-46-6	ND

(q) The Seventeenth List (1 SVHC Release in July, 2017)

No.	Chemical Substance	CAS No.	Results % (w/w)
174	Perfluorohexane-1-sulphonic acid and its salt (PFHxS)	--	(1) ND

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(r) The Eighteenth List (7 SVHC Release in January, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
175	Benz[a]anthracene	56-55-3	ND
176	Cadmium nitrate Δ	10325-94-7	ND
177	Cadmium carbonate Δ	513-78-0	ND
178	Cadmium hydroxide Δ	21041-95-2	ND
179	Chrysene	218-01-9	ND
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	--	ND
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	--	ND

(s) The Nineteenth List (10 SVHC Release in June, 2018)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	ND
183	Decamethylcyclopentasiloxane (D5)	541-02-6	ND
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND
185	Lead	7439-92-1	ND
186	Disodium octaborate Δ	12008-41-2	ND
187	Benzo[ghi]perylene	191-24-2	ND
188	Terphenyl hydrogenated	61788-32-7	ND
189	Ethylenediamine (EDA)	107-15-3	ND
190	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (Trimellitic anhydride) (TMA)	552-30-7	ND
191	Dicyclohexyl phthalate (DCHP)	84-61-7	ND

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(t) The Twentieth List (6 SVHC Release in January, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	ND
193	Benzo[k]fluoranthene	207-08-9	ND
194	Fluoranthene	206-44-0	ND
195	Phenanthrene	85-01-8	ND
196	Pyrene	129-00-0	ND
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	ND

(u) The Twenty-first List (4 SVHC Release in July, 2019)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
198	4-tert-butylphenol (PTBP)	98-54-4	ND
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	ND
200	2-methoxyethyl acetate	110-49-6	ND
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND

(v) The Twenty-second List (4 SVHC Release in Jan, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	ND
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND
204	Diisohexyl phthalate	71850-09-4	ND
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	ND

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(w) The Twenty-third List (4 SVHC Release in Jun, 2020)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
206	1-vinylimidazole	1072-63-5	ND
207	2-methylimidazole	693-98-1	ND
208	Butyl 4-hydroxybenzoate	94-26-8	ND
209	Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	22673-19-4	ND

(X) The Twenty-fourth List (2 SVHC Release in Jan, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)
			(1)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	ND
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety Δ	-	ND

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(y) The Twenty-fifth List (8 SVHC Release in Jul, 2021)

No.	Chemical Substance	CAS No.	Results % (w/w)
212	1,4-dioxane	123-91-1	(1) ND
213	2,2-bis(bromomethyl)propane, 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	ND
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	--	ND
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	ND
216	Glutaral	111-30-8	ND
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	--	ND
218	Orthoboric acid, sodium salt Δ	13840-56-7	ND
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	--	ND

(z) The Twenty-sixth List (4 SVHC Release in Jan 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)
220	(\pm)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	--	(1) ND
221	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC)	119-47-1	ND
222	S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate Δ	255881-94-8	ND
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	ND

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(aa) The Twenty-seventh List (1 SVHC Release in Jun 2022)

No.	Chemical Substance	CAS No.	Results % (w/w)
224	N-(hydroxymethyl)acrylamide	924-42-5	(1) ND

(ab) Proposed SVHC in the draft Commission Implementing Decision of June 2021

No.	Chemical Substance	CAS No.	Results % (w/w)
1	Resorcinol	108-46-3	(1) ND

Reporting limit=0.010% (raw material)

SVHC = Substance of very high concern

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

Reporting limit = Quantitation limit of analyte in sample

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

* = **Exceeded requirement**

= The result of the mixed samples did not exceed the limit, nevertheless it exceeded the limit/N (N is the number of the mixed samples). With consideration to dilution factor in a mixed testing, there may be one or more samples failed to meet the requirement

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

Notes:

1. Substances of very high concern (SVHC) are classified as:

- (a) Carcinogenicity category 1A or 1B;
- (b) Germ cell mutagenicity category 1A or 1B;
- (c) Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
- (d) Persistent, bioaccumulative and toxic (PBT)
- (e) Very persistent and very bioaccumulative (vPvB)
- (f) Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disruptors

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REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- (a) Identity and contact details of the producer or importer;
- (b) Registration number(s), if available;
- (c) Identity of the substance;
- (d) Classification of the substance(s);
- (e) Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- (f) Tonnage range of the substance(s).

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Waste Framework Directive (WFD) Requirement:

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.

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Tested Component(s):
(1) Black liquid (sample E)

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. No copy of the test report(except for full text copy) shall be made without the written approval by Intertek.

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