

## TEST REPORT

Report No.: HA0116 101174 H

Date: October 24 , 2016

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Applicant : LVH TRADING CO., LTD

Address : UNIT 04,7/F,BRIGHT WAY TOWER HONG KONG

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : PAPER CUPS

Model No. : 4OZ, 6OZ, 7OZ, 8OZ, 10OZ, 12OZ, 16OZ, 20OZ, 26OZ

Date of Sample Received : October 18, 2016

Sample Testing Date : October 18, 2016 to October 24, 2016

Test Requested	According to European Commission Regulation 1907/2006(REACH Act), to test the 169 SVHC content which have been listed in ECHA's <a href="http://echa.europa.eu/web/guest/candidate-list-table">http://echa.europa.eu/web/guest/candidate-list-table</a>
Test Method	By Inductively Coupled Plasma Optical Emission Spectrometry, Ion Chromatography, UV -Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic - Mass Spectrometry and High Performance Liquid Chromatography analysis.
Test Result	Refer to next page(s)
Test Conclusion	Pass

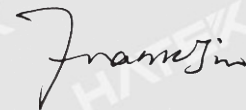
\*\*\*\*\* For Further Details, Please Refer to the Following Page(s) \*\*\*\*\*

Written by :



Cherry Chen

Reviewed by :



Frank Jin

Approved by:



Milse Xie



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**Test Results:**

Substance in the candidate list of SVHC

Substance Name	CAS No	Result		RL(%)
		Group 1	Group 2	
All tested SVHC in candidate list	---	ND	ND	---

**Test Parts Description:**

No.	Item	Test Parts Description
1	Group 1: Paper cups	please see Photo 1
2	Group 2: Plastic parts	please see Photo 2

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**Full list tested SVHC**

Seq.	Substance Name	CAS No.	RL(%)
1	Cobalt Dichloride $\Delta$	7646-79-9	0.10
2	Diarsenic Pentaoxide $\Delta$	1303-28-2	0.01
3	Diarsenic Trioxide $\Delta$	1327-53-3	0.01
4	Lead Hydrogen Arsenate $\Delta$	7784-40-9	0.01
5	Triethyl Arsenate $\Delta$	15606-95-8	0.01
6	Sodium Dichromate $\Delta$	7789-12-0, 10588-01-9	0.01
7	Bis (Tributyltin) Oxide (TBTO) $\Delta$	56-35-9	0.10
8	Anthracene	120-12-7	0.10
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	0.10
10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4and 3194-55-6	0.10
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	0.10
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	0.10
13	Dibutyl Phthalate (DBP)	84-74-2	0.10
14	Benzyl Butyl Phthalate (BBP)	85-68-7	0.10
15	Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )	85535-84-8	0.10
16	Lead Chromate $\Delta$	7758-97-6	0.01
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) $\Delta$	12656-85-8	0.01
18	Lead Sulfochromate Yellow (C.I.Pigment Yellow 34) $\Delta$	1344-37-2	0.01

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Seq.	Substance Name	CAS No.	RL(%)
19	Tris (2-Chloroethyl) Phosphate	115-96-8	0.10
20	2,4-Dinitrotoluene	121-14-2	0.10
21	Diisobutyl Phthalate (DIBP)	2184-69-5	0.10
22	Coal Tar Pitch, High temperature	65996-93-2	0.10
23	Anthracene Oil	90640-80-5	0.10
24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	0.10
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	0.10
26	Anthracene Oil, Anthracene-low	90640-82-7	0.10
27	Anthracene Oil, Anthracene Paste	90640-81-6	0.10
28	Acrylamide	79-06-1	0.10
29	Boric Acid $\Delta$	10043-35-3, 11113-50-1	0.01
30	Disodium Tetraborate, Anhydrous $\Delta$	1330-43-4, 12179-04-3, 1303-96-4	0.01
31	Tetraboron Disodium Heptaoxide, Hydrate $\Delta$	12267-73-1	0.01
32	Sodium Chromate $\Delta$	7775-11-3	0.01
33	Potassium Chromate $\Delta$	7789-00-6	0.01
34	Ammonium Dichromate $\Delta$	7789-09-5	0.01
35	Potassium Dichromate $\Delta$	7778-50-9	0.01
36	Trichloroethylene	79-01-6	0.10
37	2-Methoxyethanol	109-86-4	0.10

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Seq.	Substance Name	CAS No.	RL(%)
38	2-Ethoxyethanol	110-80-5	0.10
39	Cobalt Sulphate $\Delta$	10124-43-3	0.01
40	Cobalt Dinitrate $\Delta$	10141-05-6	0.01
41	Cobalt Carbonate $\Delta$	71-48-7	0.01
42	Cobalt Diacetate $\Delta$	513-79-1	0.01
43	Chromium Trioxide $\Delta$	1333-82-0	0.01
44	Chromic Acid $\Delta$ Dichromic Acid $\Delta$ Oligomers of Chromic Acid and Dichromic Acid $\Delta$	7738-94-5 13530-68-2 --	0.01
45	Strontium Chromate $\Delta$	7789-06-2	0.01
46	2-Ethoxyethyl acetate (2-EEA)	111-15-9	0.10
47	1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)	68515-42-4	0.10
48	Hydrazine	48 7803-57-8 302-01-2	0.10
49	1-Methyl-2-pyrrolidone	872-50-4	0.10
50	1,2,3-Trichloropropane	96-18-4	0.10
51	1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -branched alkyl esters, C <sub>7</sub> -rich (DIHP)	71888-89-6	0.10
52	Lead Dipicrate $\Delta$	6477-64-1	0.01
53	Lead Styphnate $\Delta$	15245-44-0	0.01
54	Lead Azide; Lead Diazide $\Delta$	13424-46-9	0.01
55	Phenolphthalein	77-09-8	0.10
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.10

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Seq.	Substance Name	CAS No.	RL(%)
57	N,N-dimethylacetamide (DMAC)	127-19-5	0.10
58	Trilead diarsenate Δ	3687-31-8	0.01
59	Calcium arsenate Δ	7778-44-1	0.01
60	Arsenic acid Δ	7778-39-4	0.01
61	Bis(2-methoxyethyl) ether	111-96-6	0.10
62	1,2-Dichloroethane	107-06-2	0.10
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	0.10
64	2-Methoxyaniline; o-Anisidine	90-04-0	0.10
65	Bis(2-methoxyethyl) phthalate(DMEP)	117-82-8	0.10
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	0.10
67	Pentazinc chromate octahydroxide Δ	49663-84-5	0.01
68	Potassium hydroxyoctaoxodizincate dichromate Δ	11103-86-9	0.01
69	Dichromium tris(chromate) Δ	24613-89-6	0.01
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No.650-017-00-8)	0.01
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No.650-017-00-8)	0.01
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.10
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.10
74	Diboron trioxide Δ	1303-86-2	0.01
75	Formamide	75-12-7	0.10
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	0.01

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Seq.	Substance Name	CAS No.	RL(%)
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.10
78	2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.10
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0.10
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.10
81	[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)]	548-62-9	0.10
82	[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)]	2580-56-5	0.10
83	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)]	6786-83-0	0.10
84	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)]	561-41-1	0.10
85	Bis(pentabromophenyl) ether(decabromodiphenyl ether; DecaBDE)	1163-19-5	0.10
86	Pentacosafuorotridecanoic acid	72629-94-8	0.10
87	Tricosafuorododecanoic acid	307-55-1	0.10
88	Henicosafuoroundecanoic acid	2058-94-8	0.10
89	Heptacosafuorotetradecanoic acid	376-06-7	0.10
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.10

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Seq.	Substance Name	CAS No.	RL(%)
91	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	0.10
92	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	0.10
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]	--	0.10
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	--	0.10
95	Methoxyacetic acid	625-45-6	0.10
96	N,N-dimethylformamide	68-12-2	0.10
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	0.10
98	Lead monoxide (Lead oxide) Δ	1317-36-8	0.01
99	Orange lead (Lead tetroxide) Δ	1314-41-6	0.01
100	Lead bis(tetrafluoroborate) Δ	13814-96-5	0.01
101	Trilead bis(carbonate)dihydroxide Δ	1319-46-6	0.10
102	Lead titanium trioxide Δ	12060-00-3	0.01

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Seq.	Substance Name	CAS No.	RL(%)
103	Lead titanium zirconium oxide Δ	12626-81-2	0.01
104	Silicic acid, lead salt Δ	11120-22-2	0.01
105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-doped Δ [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	0.10
106	1-bromopropane (n-propyl bromide)	106-94-5	0.10
107	Methyloxirane (Propylene oxide)	75-56-9	0.10
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.10
109	Diisopentylphthalate (DIPP)	109 605-50-5	0.10
110	N-pentyl-isopentylphthalate	776297-69-9	0.10
111	1,2-diethoxyethane	629-14-1	0.10
112	Acetic acid, lead salt, basic Δ	51404-69-4	0.01
113	Lead oxide sulfate Δ	12036-76-9	0.01
114	[Phthalato(2-)]dioxotrilead Δ	69011-06-9	0.10
115	Dioxobis(stearato)trilead Δ	12578-12-0	0.10
116	Fatty acids, C16-18, lead salts Δ	91031-62-8	0.01
117	Lead cyanamidate Δ	20837-86-9	0.01
118	Lead dinitrate Δ	10099-74-8	0.01

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Seq.	Substance Name	CAS No.	RL(%)
119	Pentalead tetraoxide sulphate Δ	12065-90-6	0.01
120	Pyrochlore, antimony lead yellow Δ	8012-00-8	0.01
121	Sulfurous acid, lead salt, dibasic Δ	62229-08-7	0.01
122	Tetraethyllead Δ	78-00-2	0.01
123	Tetralead trioxide sulphate Δ	12202-17-4	0.01
124	Trilead dioxide phosphonate Δ	12141-20-7	0.01
125	Furan	110-00-9	0.10
126	Diethyl sulphate	64-67-5	0.10
127	Dimethyl sulphate	77-78-1	0.10
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.10
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.10
130	4,4'-methylenedi-o-toluidine	838-88-0	0.10
131	4,4'-oxydianiline and its salts	101-80-4	0.10
132	4-aminoazobenzene	60-09-3	0.10
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.10
134	6-methoxy-m-toluidine (pcoresidine)	120-71-8	0.10
135	Biphenyl-4-ylamine	92-67-1	0.10
136	O-aminoazotoluene [(4-otolylazo-O-toluidine)]	97-56-3	0.10
137	O-toluidine	95-53-4	0.10
138	N-methylacetamide	79-16-3	0.10

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139	Cadmium $\Delta$	7440-43-9	0.10
140	Cadmium oxide $\Delta$	1306-19-0	0.10
141	Dipentyl phthalate (DPP)	131-18-0	0.10
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 welldefined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--	0.10
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.10
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.10
145	Cadmium sulphide $\Delta$	1306-23-6	0.01
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.10
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	0.10
148	Dihexyl phthalate (DnHP)	84-75-3	0.10
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.10
150	Lead di(acetate) $\Delta$	301-04-2	0.01
151	Trixylyl phosphate	25155-23-1	0.10

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152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4	0.10
153	Cadmium chloride $\Delta$	10108-64-2	0.01
154	Sodium perborate; perboric acid, sodium salt $\Delta$	--	0.01
155	Sodium peroxometaborate $\Delta$	7632-04-4	0.01
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.10
157	2-benzotriazol-2-yl-4,6-di-tertbutylphenol (UV-320)	3846-71-7	0.10
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.10
159	Cadmium fluoride $\Delta$	159 7790-79-6	0.01
160	Cadmium sulphate $\Delta$	10124-36-4; 31119-53-6	0.01
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)	15571-58-1; 27107-89-7	0.10
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1	0.10

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Seq.	Substance Name	CAS No.	RL(%)
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-secbutyl-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]	117933-89-8	0.10
164	Nitrobenzene	98-95-3	0.10
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.10
166	2-(2H-benzotriazol-2-yl)-4-(tertbutyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.10
167	1,3-propanesultone	1120-71-4	0.10
168	Perfluorononan-1-oic-acid and its sodium and ammonium salt	375-95-1 21049-39-8 4149-60-4	0.10
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01

**Note:**

SVHC = Substance of very high concern

RL=Reporting Limit. All RL are based on homogenous material.

ND = Not detected (Lower than RL), ND is denoted on the SVHC substance.

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

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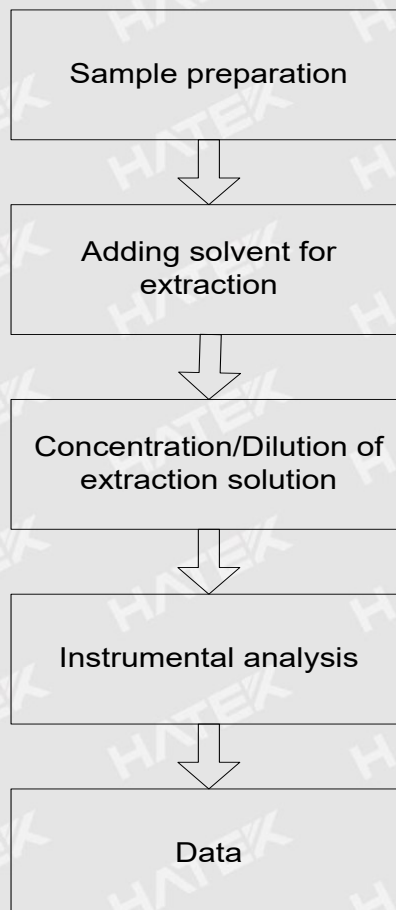
Date: October 24, 2016

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### Note:

1. In accordance with regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:
  - (a) the substance is present in those articles in quantities totalling over one tonne per producer or importer per year;
  - (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
2. Form 28 October 2008, EU & EEA suppliers of articles of articles which contain substances on the Candidate List in a concentration above 0.1% (W/W) must provide sufficient information, available to them, to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.
3. ND=Not detected, Less than method detection limit (MDL).

### Measurement Flowchart:



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### Sample Photo:

Photo 1



Photo 2



==== End of Test Report ====

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