ASSESSMENT REPORT PROPOSAL IN COMPLIANCE WITH REACH

We have been commissioned by the client to conduct REACH compliance assessment on their products (Contract No.: TR20170785). We have assessed the client's product under the European Regulation (EC) No 1907/2006 (hereinafter referred as REACH Regulation), including product categories, substances list, SVHC (Substances of Very High Concern) as well as the client's responsibilities and obligations for this product under REACH Regulation. The results of the assessment and our proposals are described as follows:

1. Client's Information

Name:	Hangzhou Todaytec Digital Co., Ltd.
Address:	No. 600 Kangxin Road, Qianjiang Economic Development Zone, Yuhang, Hangzhou, China
Name of the contact person:	Ms Zhu
Email:	karen@todaytec.com.cn

2. Product Identification

Product name:	Barcode ribbon
Type/ model:	N/A
Physical appearance/colour:	Solid/ Black
Product type:	Article

3. Product Substances Information

3.1 Substance on its own or in mixtures

Index	Substance name	CAS No.	EC No.	Tone
N/A	N/A	N/A	N/A	N/A

3.2 Substance in article intended to be released

Index	Substance name	CAS No.	EC No.	Tone
N/A	N/A	N/A	N/A	N/A

4. Responsibilities and Obligations

4.1 Registration

4.1.1 According to the definition in Article 3(3), Chapter 2, Title I, the client's product, Barcode ribbon is regarded as "Article" under REACH Regulation.

4.1.2 According to Article 7(1), Chapter 2, Title 2 of REACH Regulation, there is no substance intended to be released under normal or reasonably foreseeable conditions of use in the client's product. Therefore, registration is not required.

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4.2 Notification

As the concentrations of the SVHCs defined in Article 57 of REACH Regulation in the client's products are less than 0.1% weight by weight (w/w), the obligation of notification is not required according to Article 7(2) under REACH Regulation.

Note: On 10 September 2015, European Court of Justice (ECJ) made a ruling regarding REACH Regulation that each single article rather than an assembled article is the reference for the identification of substances of very high concern (hereinafter referred as "SVHC"). So the testing result obtained when assembled article is the reference for SVHC testing cannot be applied to such identification and will be invalid after the ruling.

4.3 Information Communication down the Supply Chain

As the concentrations of the SVHCs in the client's product are less than 0.1% weight by weight (w/w), the obligation of communicating information down the supply chain is not required in accordance with Article 33 of REACH Regulation.

4.4 Others

4.4.1 Authorisation

Since the manufacture of this product is based outside the EU, and the lifecycle of related substances outside EU is irrelevant with respect to REACH Regulation, there is no obligation of authorisation required for the client's product.

4.4.2 Restriction

The directive on marketing and use of dangerous substances 76/769/EEC have been repealed since 1 June 2009, and the client should follow the restriction conditions outlined in Annex XVII in REACH Regulation from then on.

As we haven't received any testing request of Restricted Substance from our client, the detail of restricted substance in the product is unknown.

5. Assessment Conclusions

According to the product information provided by the client and related Articles of REACH Regulation, we draw the conclusion that:

The products supplied by the client comply with REACH Regulation about SVHC as it currently stands.

6. Proposal for REACH Compliance

6.1 The client should inform his downstream users that the products mentioned above comply with REACH Regulation as soon as possible.

6.2 The client should pay constant attention to the SVHCs in the candidate list and the restricted substance in the annex XVII, Also need to fulfil related obligations if necessary. This list may be updated regularly and it is important to monitor any changes to it.

6.3 The client should ensure the products are consistent with the sample provided to Chemical Inspection & Regulation Service Limited.

If you want to verify the authenticity of the report, please login the report verification system according to the operating instruction: http://www.cirs-ck.com/dvs/. If you have any question about the report, please contact us.

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Contact information:

Office in Europe	China Office
CIRS Europe	*CIRS China*
Chemical Inspection & Regulation Service Limited	*Hangzhou C&K Testing Technic Co., Ltd.*
Address:	*Address:*
Singleton House, Laurence Street	*1/F, 4th Building, Huaye Hi-tech Industrial Park, No. 1180 Bin'an*
Drogheda, Co. Louth, Ireland	*Road, Binjiang District, Hangzhou, Zhejiang Province*
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STATEMENT

First: Instruction for the assessment conclusion

The above assessment conclusions that we have made is based on the understanding and analysis of the consignor's product and REACH regulation and only applies to the situation described in the report. This conclusion does not apply to any enterprise or product that fails to meet the description.

As parts of REACH regulation (for example Annex XIV) are still under modification, the above conclusion only applies to REACH regulation as it currently stands.

This report is only used to assist the consignor to know his own responsibility and obligation under REACH Regulation, and provide the actors in his supply chain with evidence that his products are in compliance with REACH regulation.

The consignor should study this report carefully. If there is any doubt or suggestion, please contact us and we will do our best to clarify and include any necessary amendments.

Second: Disclaimer Statement

We undertake no responsibility and no obligation to verify the authenticity of information supplied by the consignor.

The client should ensure the exported products are consistent with the sample provided to our company in material, vendors and production process. We can't be held responsible or bear any consequence which may result from differences between the sample products provided to us and the exported products.

We have completed this report with all professional competence, responsibility and reasonable due diligence, however due to the limited approach to the consignor, the products and the market we can't guarantee that the content of the report is fully accurate.

Consignor should make a cautious decision to adopt the assessment conclusion of this report. We assume no liability for any loss incurred as a result of the use of the conclusion.

Third: Privacy statement and others

This report has been completed by us independently. We guarantee that we shall not disclose information in the above report to any third party (except with the express written permission of consignor). We shall assume no responsibility for any loss caused by disclosure of the report.

We suggest that before offering the report the consignor should sign a security agreement with the third party in order to keep the information of consignor and products in the report from disclosure.

Chemical Inspection & Regulation Service Limited

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ANNEX 1 TEST RESULTS OF SVHC (SUBSTANCE OF VERY HIGH CONCERNED)

Sample Description:

Name:	Barcode ribbon
Description:	Black solid
Date of receiving sample:	2017-02-17
Date of test:	2017-02-17 ~ 2017-02-21
Test requested:	One hundred and seventy three (173) Substances of Very High Concern (SVHC) analysis. SVHC list is based on the publication by European Chemical Agency (ECHA) on 28 October 2008, 13 January 2010, 30 March 2010, 18 June 2010, 15 December 2010, 20 June 2011, 19 December 2011, 18 June 2012, 19 December 2012, 20 June 2013, 16 December 2013, 16 June 2014, 17 December 2014, 15 June 2015, 17 December 2015, 20 June 2016 and 12 January 2017 regarding regulation (EC) No 1907/2006 concerning the REACH.

1. Test parts and photos:

No.	Parts Name
1	Barcode ribbon

Remarks:

1. As per client's request, the test results of 1-155 SVHCs are quoted from test report TR20142276.
2. As per client's request, the test results of 156-161 SVHCs are quoted from test report TR20150161.
3. As per client's request, the test results of 162-163 SVHCs are quoted from test report TR20152481.
4. As per client's request, the test results of 164-168 SVHCs are quoted from test report TR20160744.
5. As per client's request, the test results of 169 SVHCs are quoted from test report TR20164188.

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Sample Photo:

1

Overview

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2. Test results:

No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
1	Anthracene	120-12-7	100	N.D.
2	4,4'- Diaminodiphenylmethane(MDA)	101-77-9	100	N.D.
3	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	100	N.D.
4	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	25637-99-4, 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	100	N.D.
5	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	100	N.D.
6	Dibutyl phthalate(DBP)	84-74-2	10	N.D.
7	Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	10	N.D.
8	Benzyl butyl phthalate(BBP)	85-68-7	10	N.D.
9	Cobalt dichloride	7646-79-9	100	N.D.
10	Bis(tributyltin)oxide(TBTO)	56-35-9	100	N.D.
11	Sodium dichromate	7789-12-0, 10588-01-9	100	N.D.
12	Lead hydrogen arsenate	7784-40-9	100	N.D.
13	Diarsenic trioxide	1327-53-3	100	N.D.
14	Diarsenic pentaoxide	1303-28-2	100	N.D.
15	Triethyl arsenate	15606-95-8	100	N.D.
16	Anthracene oil	90640-80-5	100	N.D.
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	100	N.D.
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	100	N.D.
19	Anthracene oil, anthracene-low	90640-82-7	100	N.D.
20	Anthracene oil, anthracene paste	90640-81-6	100	N.D.
21	Pitch, coal tar, high temp.	65996-93-2	100	N.D.
22	Acrylamide	79-06-1	100	N.D.
23	2,4-Dinitrotoluene	121-14-2	100	N.D.
24	Diisobutyl phthalate	84-69-5	10	N.D.
25	tris(2-chloroethyl)phosphate	115-96-8	100	N.D.

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No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
26	Lead chromate	7758-97-6	100	N.D.
27	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8	100	N.D.
28	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2	100	N.D.
29	Trichloroethylene	79-01-6	100	N.D.
30	Boric acid	10043-35-3, 11113-50-1	100	N.D.
31	Disodium tetraborate, anhydrous	1303-96-4, 1330-43-4, 12179-04-3	100	N.D.
32	Tetraboron disodium heptaoxide, hydrate	12267-73-1	100	N.D.
33	Sodium chromate	7775-11-3	100	N.D.
34	Potassium chromate	7789-00-6	100	N.D.
35	Ammonium dichromate	7789-09-5	100	N.D.
36	Potassium dichromate	7778-50-9	100	N.D.
37	Chromium trioxide	1333-82-0	100	N.D.
38	2-Ethoxyethanol	110-80-5	100	N.D.
39	2-Methoxyethanol	109-86-4	100	N.D.
40	Cobalt(II) diacetate	71-48-7	100	N.D.
41	Cobalt (II) carbonate	513-79-1	100	N.D.
42	Cobalt dinitrate	10141-05-6	100	N.D.
43	Cobalt (II) sulphate	10124-43-3	100	N.D.
44	Acids generated from chromium trioxide and their oligomers. Group containing: Chromic acid, Dichromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid	7738-94-5, 13530-68-2	100	N.D.
45	2-Ethoxyethyl acetate	111-15-9	100	N.D.
46	Strontium chromate	7789-06-2	100	N.D.
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	100	N.D.
48	Hydrazine	7803-57-8 302-01-2	100	N.D.
49	N-methyl-2-pyrrolidone; 1-methyl-2-pyrrolidone	872-50-4	100	N.D.

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No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
50	1,2,3-trichloropropane	96-18-4	100	N.D.
51	1, 2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	100	N.D.
52	Calcium arsenate	7778-44-1	100	N.D.
53	Bis(2-methoxyethyl) ether	111-96-6	100	N.D.
54	Potassium hydroxyoctaoxodizincatedichromate	11103-86-9	100	N.D.
55	Lead dipicrate	6477-64-1	100	N.D.
56	N,N-dimethylacetamide	127-19-5	100	N.D.
57	Arsenic acid	7778-39-4	100	N.D.
58	2-Methoxyaniline; o-Anisidine	90-04-0	100	N.D.
59	Trilead diarsenate	3687-31-8	100	N.D.
60	1,2-dichloroethane	107-06-2	100	N.D.
61	Pentazinc chromate octahydroxide	49663-84-5	100	N.D.
62	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	100	N.D.
63	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	100	N.D.
64	Bis(2-methoxyethyl) phthalate	117-82-8	100	N.D.
65	Lead diazide, Lead azide	13424-46-9	100	N.D.
66	Lead styphnate	15245-44-0	100	N.D.
67	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	100	N.D.
68	Phenolphthalein	77-09-8	100	N.D.
69	Dichromium tris(chromate)	24613-89-6	100	N.D.
70*	Aluminosilicate Refractory Ceramic Fibres	--	100	N.D.
71*	Zirconia Aluminosilicate, Refractory Ceramic Fibres	--	100	N.D.
72	1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	100	N.D.
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	100	N.D.
74	Diboron trioxide	1303-86-2	100	N.D.
75	Formamide	75-12-7	100	N.D.
76	Lead (II) bis (methanesulfonate)	17570-76-2	100	N.D.

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No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
77	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	100	N.D.
78	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	100	N.D.
79	4,4'-bis (dimethylamino) benzophenone (Michler's ketone)	90-94-8	100	N.D.
80	N, N, N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	100	N.D.
81**	[4-[4,4'-bis (dimethylamino) benzhydrylidene] cyclohexa-2, 5- dien-1- ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	100	N.D.
82**	[4-[[4-anilino-1-naphthyl][4-(dimethylamino) phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	100	N.D.
83**	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	100	N.D.
84**	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	100	N.D.
85	Bis(pentabromophenyl) ether (decabromodiphenylether; DecaBDE)	1163-19-5	10	N.D.
86	Pentacosafluorotridecanoic acid	72629-94-8	100	N.D.
87	Tricosafluorododecanoic acid	307-55-1	100	N.D.
88	Henicosafluoroundecanoic acid	2058-94-8	100	N.D.
89	Heptacosafluorotetradecanoic acid	376-06-7	100	N.D.
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	100	N.D.
91	Cyclohexane-1,2-dicarboxylic anhydride cis-cyclohexane-1,2-dicarboxylic anhydride trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	100	N.D.
92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	100	N.D.

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No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
93	4-Nonylphenol, branched and linear	-	100	N.D.
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	100	N.D.
95	Methoxyacetic acid	625-45-6	100	N.D.
96	N,N-dimethylformamide	68-12-2	100	N.D.
97	Dibutyltin dichloride (DBTC)	683-18-1	100	N.D.
98	Lead monoxide (Lead oxide)	1317-36-8	100	N.D.
99	Orange lead (Lead tetroxide)	1314-41-6	100	N.D.
100	Lead bis(tetrafluoroborate)	13814-96-5	100	N.D.
101	Trilead bis(carbonate)dihydroxide	1319-46-6	100	N.D.
102	Lead titanium trioxide	12060-00-3	100	N.D.
103	Lead titanium zirconium oxide	12626-81-2	100	N.D.
104	Silicic acid, lead salt	11120-22-2	100	N.D.
105	Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped	68784-75-8	100	N.D.
106	1-bromopropane (n-propyl bromide)	106-94-5	100	N.D.
107	Methyloxirane (Propylene oxide)	75-56-9	100	N.D.
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	100	N.D.
109	Diisopentylphthalate (DIPP)	605-50-5	100	N.D.
110	N-pentyl-isopentylphthalate	776297-69-9	100	N.D.
111	1,2-diethoxyethane	629-14-1	100	N.D.
112	Acetic acid, lead salt, basic	51404-69-4	100	N.D.
113	Lead oxide sulfate	12036-76-9	100	N.D.
114	[Phthalato(2-)]dioxotrilead	69011-06-9	100	N.D.
115	Dioxobis(stearato)trilead	12578-12-0	100	N.D.
116	Fatty acids, C16-18, lead salts	91031-62-8	100	N.D.
117	Lead cynamidate	20837-86-9	100	N.D.
118	Lead dinitrate	10099-74-8	100	N.D.
119	Pentalead tetraoxide sulphate	12065-90-6	100	N.D.
120	Pyrochlore, antimony lead yellow	8012-00-8	100	N.D.
121	Sulfurous acid, lead salt, dibasic	62229-08-7	100	N.D.
122	Tetraethyllead	78-00-2	100	N.D.
123	Tetralead trioxide sulphate	12202-17-4	100	N.D.

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No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
124	Trilead dioxide phosphonate	12141-20-7	100	N.D.
125	Furan	110-00-9	100	N.D.
126	Diethyl sulphate	64-67-5	100	N.D.
127	Dimethyl sulphate	77-78-1	100	N.D.
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	100	N.D.
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	100	N.D.
130	4,4'-methylenedi-o-toluidine	838-88-0	100	N.D.
131	4,4'-oxydianiline and its salts	101-80-4	100	N.D.
132	4-aminoazobenzene	60-09-3	100	N.D.
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	100	N.D.
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	100	N.D.
135	Biphenyl-4-ylamine	92-67-1	100	N.D.
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine])]	97-56-3	100	N.D.
137	o-toluidine	95-53-4	100	N.D.
138	N-methylacetamide	79-16-3	100	N.D.
139	Cadmium	7440-43-9	5	N.D.
140	Cadmium oxide	1306-19-0	100	N.D.
141	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	100	N.D.
142	Pentadecafluorooctanoic acid (PFOA)	335-67-1	100	N.D.
143	Dipentyl phthalate (DPP)	131-18-0	10	N.D.
144	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]	/	100	N.D.
145	Cadmium sulphide	1306-23-6	100	N.D.
146	Dihexyl phthalate (DHXP)	84-75-3	10	N.D.

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No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis (azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	100	N.D.
148	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	100	N.D.
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	100	N.D.
150	Lead di(acetate)	301-04-2	100	N.D.
151	Trixylyl phosphate	25155-23-1	100	N.D.
152	Cadmium chloride	10108-64-2	100	N.D.
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	10	N.D.
154	Sodium peroxometaborate	7632-04-4	100	N.D.
155	Sodium perborate; perboric acid, sodium salt	/	100	N.D.
156	Cadmium fluoride	7790-79-6	100	N.D.
157	Cadmium sulphate	10124-36-4; 31119-53-6	100	N.D.
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	100	N.D.
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	100	N.D.
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	100	N.D.
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)	-	100	N.D.

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No.	Test Item	CAS No.	MDL	Results(mg/kg)
				1
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	68515-51-5; 68648-93-1	100	N.D.
163	5-sec-butyl-2-(2, 4-dimethylcyclohex-3en-1-yl)-5-methyl-1, 3-dioxane [1], 5-sec-butyl-2-(4, 6-dimethylcyclohex-3en-1-yl)-5-methyl-1, 3-dioxane [2] [covering any of the individual stereoisomers of [1]and[2] or any combination thereof]	-	100	N.D.
164	Nitrobenzene	98-95-3	100	N.D.
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	100	N.D.
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl) phenol (UV-350)	36437-37-3	100	N.D.
167	1,3-propanesultone	1120-71-4	100	N.D.
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	100	N.D.
169	Benzo[a]pyrene	50-32-8	100	N.D.
170	Bisphenol A (BPA)	80-05-7	100	N.D.
171	Perfluorononan-1-kwai-acid and its sodium and ammonium salts	335-76-2, 3108-42-7, 3830-45-3	100	N.D.
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]	-	100	N.D.
173	p-(1,1-Dimethylpropyl)phenol	80-46-6	100	N.D.

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Remarks:

1. Test parts may be single material or a variety of materials which could not be divided by physical ways. Unless otherwise noted, components of base material, coating metal, coating paint and/or colouring pigment were no longer divided, but tested as one whole.
2. All results are applicable only to the test samples.
3. Unit: mg/kg. 1000mg/kg= 1000ppm= 0.1%
4. N.D. = Not detected (<MDL), MDL= Method Detection Limits, MCV= Maximum Concentration Values.
5. The substances are tested by in-house methods: CIRS-TC-SVHC001, CIRS-TC-SVHC002, CIRS-TC-SVHC003 CIRS-TC-SVHC004, CIRS-TC-SVHC005 and CIRS-TC-SVHC006 which refer to the methods listed below:

1) EN 14372:2004 Child use and care articles-Cutlery and feeding utensils-Safety requirements and tests
2) US EPA 8061A:1996 Phthalate Esters by Gas Chromatography with Electron Capture Detection (GC/ECD)
3) US EPA 3540C:1996 Soxhlet Extraction
4) US EPA 3550C:2007 Ultrasonic Extraction
5) US EPA 8270D:2014 Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry
6) EN 14362-1:2012 Textiles - Methods for determination of certain aromatic amines derived from Azo colorants - Part 1: Detection of the use of certain Azo colorants accessible with and without extracting the fibres
7) EN 14362-3:2012 Textiles. Methods for determination of certain aromatic amines derived from Azo colorants. Part 3:Detection of the use of certain Azo colorants, which may release 4-aminoazobenzene
8) ISO 18219:2012 Leather. Chemical tests. Determination of short-chain chlorinated paraffins
9) IS0 16189:2013 Footwear-Critical substances potentially present in footwear and footwear components -Test method to quantitatively determine dimethylformamide in footwear materials
10) EN 71-3:2013+A1:2014 Safety Of Toys - Part 3: Migration Of Certain Elements Annex G: Method of analysis for organic tin
11) AfPS GS 2014:01 PAK Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the course of awarding the GS mark
12) IEC 62321-6:2015 Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatograhy -mass spectometry (GC-MS)
13) EPA 8260B:1996 Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)
14) EPA 5021A:2014 Volatile Organic Compounds in Soils and Other Solid Matrices Using Equilibrium Headspace Analysis
15) CNS 15493-2015 Safety requirements of plastic puzzle ground mat
16) ISO 17075:2007 Leather-Chemical tests-Determination of chromium(VI) content
17) US EPA 3060A:1996 Alkaline Digestion for Hexavalent Chromium
18) US EPA 7196A:1992 Chromium, Hexavalent (Colorimetric)
19) ISO 3613:2010 Test methods—Metallic and other inorganic coatings — Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zincaluminium alloys
20) US EPA 3050B:1996 Acid Digestion of Sediments, Sludges, and Soils
21) US EPA 3051A:2007 Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils
22) US EPA 3052:1996 Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices

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23) US EPA 6010C:2014 Inductively Coupled Plasma-Atomic Emission Spectrometry
24) ASTM D7065:2011 Standard Test Method for Determination of Nonylphenol,Bisphenol A,p-tert-Octylphenol,Nonylphenol Monoethoxylate and Nonylphenol Diethoxylate in Environmental Waters by Gas Chromatography Mass Spectrometry
25) EPA 8321B:2007 Solvent-extractable nonvolatile compounds by high-performance liquid chromatography/ thermospray/ mass spectrometry (HPLC/TS/MS) or ultraviolet(UV) detection
26) GB/T 29609-2013 Rubber-Determination of phenol and biphenyl-A

6. *: Be covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures:

(70*) Aluminosilicate Refractory Ceramic Fibres

a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges

b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm)

c) alkaline oxide and alkali earth oxide ($Na_2O+K_2O+CaO+MgO+BaO$) content less or equal to 18% by weight

(71*) Zirconia Aluminosilicate Refractory Ceramic Fibres

a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges

b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (μm).

c) alkaline oxide and alkali earth oxide($Na_2O+K_2O+CaO+MgO+BaO$) content less or equal to 18% by weight.

7. ** (Items 81, 82, 83, 84) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] is identified as a substance meeting the criteria of Article 57 (a) of Regulation (EC) 1907/2006 (REACH) owing to its classification as carcinogen category 1A or 1B

8. Because it is difficult to detect the substances $CoCl_2$, $C_{24}H_{54}OSn_2$, $Na_2Cr_2O_7$, $PbAsHO_4$, As_2O_3, As_2O_5, Triethyl arsenate $PbCrO_4$, Lead chromate molybdate sulphate red (C.I. Pigment Red 104), Lead sulfochromate yellow (C.I. Pigment Yellow 34), Triethyl arsenate, H_3BO_3, $Na_2B_4O_7$, $Na_2B_4O_7 \cdot 7H_2O$, Na_2CrO_4, K_2CrO_4, $(NH_4)_2Cr_2O_7$, $K_2Cr_2O_7$, CrO_3, $Co(CH_3COO)_2$, $CoCO_3$, $Co(NO_3)_2$, $CoSO_4$, $SrCrO_4$, Calcium arsenate, Potassium hydroxyoctaoxodizincatedichromate, Lead dipicrate, Arsenic acid, Trilead diarsenate, Pentazinc chromate octahydroxide, Lead diazide, Lead azide, Lead styphnate, Diboron trioxide, Lead (II) bis (methanesulfonate), Aluminosilicate Refractory Ceramic Fibres, Zirconia Aluminosilicate, Refractory Ceramic Fibres,s Dichromium tris(chromate), Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid, Dibutyltin dichloride (DBTC), Lead monoxide (Lead oxide), Orange lead (Lead tetroxide), Lead bis(tetrafluoroborate), Trilead bis(carbonate)dihydroxide, Lead titanium trioxide, Lead titanium zirconium oxide, Silicic acid, lead salt, (Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped), (Acetic acid, lead salt, basic), Lead oxide sulfate, [Phthalato(2-)]dioxotrilead, Dioxobis(stearato)trilead, (Fatty acids, C16-18, lead salts), Lead cynamidate, Lead dinitrate, Pentalead tetraoxide sulphate, (Pyrochlore, antimony lead yellow), (Sulfurous acid, lead salt, dibasic), Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium oxide, Cadmium sulphide, Lead di(acetate), Cadmium chloride, Sodium peroxometaborate, (Sodium perborate; perboric acid, sodium salt), Cadmium fluoride, Cadmium sulphate)

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via direct tests, but via converting them into detectable elements, we consider that all the relative elements exist in the form of their compounds when having the test.

9. Chemical Inspection & Regulation Service Limited reserves the right of final explanations.

**********The end of report**********

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