



Pony Testing International Group

**Test Report**

NO.: T09171000504D

Date: 2010.09.21

Page 1 of 9

(SVHC)

Applicant: Sanhe Zhijian Printing Co., Ltd.

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name: CCC Mark

Sample Received Date: 2010.09.17

Testing Period: 2010.09.17 To 2010.09.21

Test specification: 15 Substances(Anthracene; 4,4'-Diaminodiphenylmethane; Dibutyl phthalate; Cobaltdichloride; Diarsenic pentaoxide; Diarsenic trioxide; Sodium dichromate; Musk-xylene; Bis(2-ethyl(hexyl)phthalate)(DEHP); Hexabromocyclododecane(HB CDD); Short Chain Chlorinated Paraffins; Bis(tributyltin)oxide; Lead hydrogen arsenate; Benzyl butyl phthalate; Triethyl Arsenate) of Very High Concern (SVHC) testing Based on the list published by European Chemicals Agency (ECHA) on 2008 October 28, Latest 14 substances(Anthracene oil; Anthracene oil, anthracene paste, distn. Lights; Anthracene oil, anthracene paste, anthracene fraction; Anthracene oil, anthracene-low; Anthracene oil, anthracene paste; Coal tar pitch, high temperature; Aluminosilicate, Refractory Ceramic Fibres; Zirconia Aluminosilicate, Refractory Ceramic Fibres; 2,4-Dinitrotoluene; Diisobutyl phthalate (DIBP); Lead chromate ; Lead chromate molybdate sulphate red (C.I. Pigment Red 104); Lead sulfochromate yellow(C.I. Pigment Yellow 34); Tris(2-chloroethyl)phosphate (TCEP)) published on 13 January 2010 , Acrylamide published on 30 March 2010 and 8 substances (Trichloroethylene; Boric Acid; Disodium Tetraborate, Anhydrous; Sodium Chromate; Potassium Chromate; Potassium Dichromate; Ammonium dichromate; Tetraboron Disodium Heptaoxide, Hydrate) on 18 June 2010, regarding Regulation (EC) No 1907/2006 concerning the REACH. Screening tests based on customer requirements.

Test result(s): Please refer to next page(s)

Summary: According to the analytical results, concentrations of 38 SVHC substances are less than 0.1% in the submitted sample.

Approved by:

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(SVHC)

Test Method:

No.	Substance Name(s)	Test Method and Equipments	Substance Classification
1	Anthracene	Refer to US EPA 3540C:1996& US EPA 8270D:2007, GC-MS	PBT
2	Benzyl butyl phthalate	Refer to EPA 8061A, GC-MS	Toxic for reproduction, cat.2
3	Dibutyl phthalate	Refer to EPA 8061A, GC-MS	Toxic for reproduction, cat.2
4	Bis (2-ethylhexyl) phthalate (DEHP)	Refer to EPA 8061A, GC-MS	Toxic for reproduction, cat.2
5	HBCDD( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	Refer to US EPA 3540C:1996, GC-MS	PBT
6	4,4'- Diaminodiphenylmethane	Refer to EN 14362-1&2:2003 GC-MS	Carcinogen, cat. 2
7	Short Chain Chlorinated Paraffins	Refer to US EPA 3540C:1996, GC-MS	PBT; vPvB
8	Musk xylene	Refer to US EPA 3540C:1996, GC-MS	vPvB
9	Triethyl arsenate	Refer to US EPA 3052:1996, ICP-OES	Carcinogen, cat.1
10	Bis(tributyltin)oxide	Refer to DIN EN ISO 17353: 2005 GC-MS	PBT
11	Cobalt dichloride <sup>(1)</sup>	Refer to US EPA 3052:1996/ BS EN14582:2007, ICP-OES/IC	Carcinogen, cat.2
12	Diarsenic pentaoxide <sup>(1)</sup>	Refer to US EPA 3052:1996, ICP-OES	Carcinogen, cat.1
13	Diarsenic trioxide <sup>(1)</sup>	Refer to US EPA 3052:1996, ICP-OES	Carcinogen, cat.1
14	Sodium dichromate <sup>(1)</sup>	Refer to US EPA 3052:1996/US EPA 3060A:1996, EPA 9056A: 2007ICP-OES/UV-Vis	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
15	Lead hydrogen arsenate <sup>(1)</sup>	Refer to US EPA 3052:1996, ICP-OES	Carcinogen, cat.1; Toxic for reproduction, cat.1

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(SVHC)

Test Method:

No.	Substance Name(s)	Test Method and Equipments	Substance Classification
16	2,4-Dinitrotoluene	Pony-In-house method, GC-MS	Carcinogen, cat.2
17	Anthracene oil <sup>(3)</sup>	Pony-In-house method, GC-MS	PBT
18	Anthracene oil, anthracene paste, distn. Lights <sup>(3)</sup>	Pony-In-house method, GC-MS	PBT
19	Anthracene oil, anthracene paste, anthracene fraction <sup>(3)</sup>	Pony-In-house method, GC-MS	PBT
20	Anthracene oil, anthracene-low <sup>(3)</sup>	Pony-In-house method, GC-MS	PBT
21	Anthracene oil, anthracene paste <sup>(3)</sup>	Pony-In-house method, GC-MS	PBT
22	Diisobutyl phthalate (DIBP)	Refer to EPA 8061A, GC-MS	Toxic for reproduction, cat.2
23	Aluminosilicate, Refractory Ceramic Fibres <sup>(4)</sup>	Pony-In-house method, ICP-OES/SEM-EDS	Carcinogen, cat.2
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres <sup>(4)</sup>	Pony-In-house method, ICP-OES/SEM-EDS	Carcinogen, cat.2
25	Lead chromate <sup>(4)</sup>	Refer to US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) <sup>(4)</sup>	Refer to US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) <sup>(4)</sup>	Refer to US EPA 3052:1996/US EPA 3060A:1996, ICP-OES/UV-Vis	Carcinogen, cat.2; Toxic for reproduction, cat.1
28	Tris(2-chloroethyl)phosphate (TCEP)	Pony-In-house method, GC-MS	Toxic for reproduction, cat.2
29	Coal tar pitch, high temperature <sup>(3)</sup>	Pony-In-house method, GC-MS	PBT; Carcinogen, cat.2
30	Acrylamide	Pony-In-house method, HPLC	Carcinogen, cat.2; Mutagen, cat.2

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Test Method:

No.	Substance Name(s)	Test Method and Equipments	Substance Classification
31	Trichloroethylene	Pony-In-house method, GC	Carcinogen, cat.2
32	Boric Acid	Pony-In-house method, ICP-OES	Toxic for reproduction, cat.2
33	Disodium Tetraborate, Anhydrous	Pony-In-house method, ICP-OES	Toxic for reproduction, cat.2
34	Tetraboron Disodium Heptaoxide, Hydrate	Pony-In-house method, ICP-OES	Toxic for reproduction, cat.2
35	Sodium Chromate	Pony-In-house method, ICP-OES	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
36	Potassium Chromate	Pony-In-house method, ICP-OES	Carcinogen, cat.2; Mutagen, cat.2
37	Potassium Dichromate	Pony-In-house method, ICP-OES	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2
38	Ammonium dichromate	Pony-In-house method, ICP-OES	Carcinogen, cat.2; Mutagen, cat.2; Toxic for reproduction, cat.2

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(SVHC)

Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
1	Anthracene	120-12-7	204-371-1	0.0005	N.D.
2	Benzyl butyl phthalate	85-68-7	201-622-7	0.005	N.D.
3	Dibutyl phthalate	84-74-2	201-557-4	0.005	N.D.
4	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	N.D.
5	HBCDD( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	247-148-4/221-695-9	0.005	N.D.
6	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.005	N.D.
7	Short Chain Chlorinated Paraffins	85535-84-8	287-476-5	0.01	N.D.
8	Musk xylene	81-15-2	201-329-4	0.005	N.D.
9	Triethyl arsenate	15606-95-8	427-700-2	0.005	N.D.
10	Bis(tributyltin)oxide	56-35-9	200-268-0	0.01	N.D.
11	Cobalt dichloride <sup>(1)</sup>	7646-79-9	231-589-4	0.01	N.D.
12	Diarsenic pentaoxide <sup>(1)</sup>	1303-28-2	215-116-9	0.01	N.D.
13	Diarsenic trioxide <sup>(1)</sup>	1327-53-3	215-481-4	0.01	N.D.
14	Sodium dichromate <sup>(1)</sup>	7789-12-0, 10588-01-9	234-190-3	0.01	N.D.
15	Lead hydrogen arsenate <sup>(1)</sup>	7784-40-9	232-064-2	0.01	N.D.

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(SVHC)

Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
16	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01	N.D.
17	Anthracene oil <sup>(3)</sup>	90640-80-5	292-602-7	0.050	N.D.
18	Anthracene oil, anthracene paste, distn. Lights <sup>(3)</sup>	91995-17-4	295-278-5		
19	Anthracene oil, anthracene paste, anthracene fraction <sup>(3)</sup>	91995-15-2	295-275-9		
20	Anthracene oil, anthracene-low <sup>(3)</sup>	90640-82-7	292-604-8		
21	Anthracene oil, anthracene paste <sup>(3)</sup>	90640-81-6	292-603-2		
22	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005	N.D.
23	Aluminosilicate, Refractory Ceramic Fibres <sup>(4)</sup>	—	Index No. 650-017-00-8 <sup>(2)</sup>	0.01	N.D.
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres <sup>(4)</sup>	—	Index No. 650-017-00-8 <sup>(2)</sup>	0.01	N.D.
25	Lead chromate <sup>(4)</sup>	7758-97-6	231-846-0	0.005	N.D.
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) <sup>(4)</sup>	12656-85-8	235-759-9	0.005	N.D.
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) <sup>(4)</sup>	1344-37-2	215-693-7	0.005	N.D.
28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.005	N.D.
29	Coal tar pitch, high temperature <sup>(3)</sup>	65996-93-2	266-028-2	0.050	N.D.
30	Acrylamide	79-06-1	201-173-7	0.005	N.D.

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(SVHC)

Test result (Unit: %)

NO.	SVHC	CAS number	EC number	DL	Test Result
31	Trichloroethylene	1979-1-6	201-167-4	0.01	N.D.
32	Boric Acid	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01	N.D.
33	Disodium Tetraborate, Anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01	N.D.
34	Tetraboron Disodium Heptaoxide, Hydrate	12267-73-1	235-541-3	0.01	N.D.
35	Sodium Chromate	7775-11-3	231-889-5	0.01	N.D.
36	Potassium Chromate	7789-00-6	232-140-5	0.01	N.D.
37	Potassium Dichromate	7778-50-9	231-906-6	0.01	N.D.
38	Ammonium dichromate	7789-9-5	232-143-1	0.01	N.D.

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Note:

N.D. = Not Detected (<report limit)

0.1% = 1000 mg/kg = 1000 ppm

mg/kg = ppm

(1): PBT=Persistent, bioaccumulative and toxic; vPvB=very Persistent very Bioaccumulative

Concentration value of Cobalt dichloride is by the conversion from the test results of Cobalt and Chlorine. Concentration value of Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate, Bis(tributyltin)oxide, Lead hydrogen arsenate, Triethyl arsenate is by the conversion from the test results of corresponding heavy metal.

(2): All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, so called CLP Regulation (Regulation (EC) No 1272/2008).

(3): In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.

(4): when tested substances contain variable compounds, the test results are calculated based on main constituents of the representative compounds for the substances. The test results of the representative compounds are calculated based on the result of specified heavy metal elements.

Remarks:

1. The chemical analysis of 38 SVHC is performed by means of currently available analytical Techniques in the list published by ECHA on October 28 2008, 13 January 2010 and on 30 March 2010, and shall refer to [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp), [http://echa.europa.eu/doc/press/pr\\_10\\_01\\_candidate\\_list\\_20100113.pdf](http://echa.europa.eu/doc/press/pr_10_01_candidate_list_20100113.pdf), [http://echa.europa.eu/doc/press/pr\\_10\\_05\\_acrylamide\\_20100330.pdf](http://echa.europa.eu/doc/press/pr_10_05_acrylamide_20100330.pdf) and
2. 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) of the Regulation, if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the Name of that substance.

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## Test Report

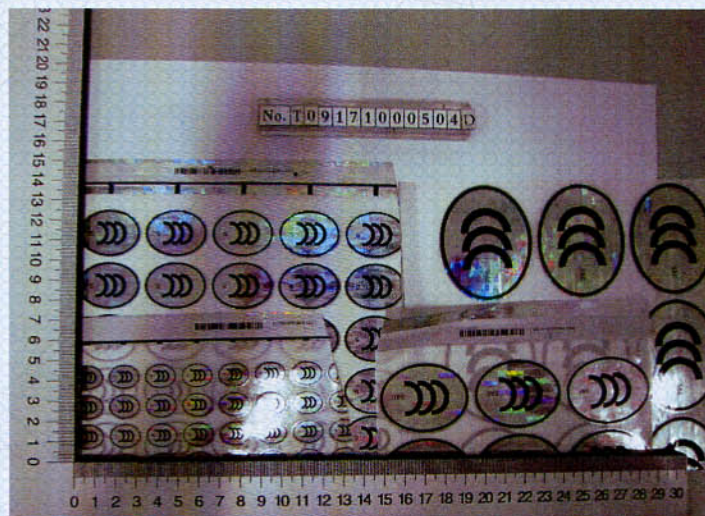
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(SVHC)

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