

Test Report

Report No.:SZA090615299501-A

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Applicant : [REDACTED]

Address : [REDACTED]

Report on the submitted sample(s) said to be:

Sample Name :Please refer to the following page
Sample Description :Black ink
Sample Received Date :Jun. 16, 2009
Testing Period :Jun. 16, 2009 to Jun. 20, 2009

Test Requested :1. As specified by client, to determine the Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs&PBDEs content in the submitted sample.

TEST REQUEST

CONCLUSION

- (2)EN 71-3:1994+A1:2000+AC:2002- Migration of Certain Elements
- (3)ASTM F963-08 Standard Consumer Safety Specification for Toy Safety (Clause 4.3.5) - Toxic Elements Test
- (4)EU Parliament and Council Directive 2005/84/EC of 14 December 2005 - Phthalates in Toys and Childcare Articles

PASS
PASS
PASS

Test Method: Please refer to the following page(s).

Test Result(s): Please refer to the following page(s).

Tested by _____
Approved by _____
Technical Manager



Inspected by Jed
Date Jun. 24, 2009

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Test Method 1:

Tested Item(s)	Pretreatment Method	Measured Equipment(s)	Report Limit
Lead (Pb)	IEC 62321:2008 Ed.1 Sec.10	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Cadmium (Cd)	IEC 62321:2008 Ed.1 Sec.10	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg

序号	货号	产品英文名称	产品中文名称
1	1011	Prima Gold Soy Ink Process Magenta(AP)	品高牌环保大豆四色红(AP)
2	1012	Prima Gold Soy Ink Process Yellow(AP)	品高牌环保大豆四色黄(AP)
3	1013	Prima Gold Soy Ink Process Cyan(AP)	品高牌环保大豆四色蓝(AP)
4	1014	Prima Gold Soy Ink Process Black(AP)	品高牌环保大豆四色黑(AP)
5	1031	Prima Gold Soy Ink Process Magenta(HP)	品高牌环保大豆四色红(HP)
6	1032	Prima Gold Soy Ink Process Yellow(HP)	品高牌环保大豆四色黄(HP)
7	1033	Prima Gold Soy Ink Process Cyan(HP)	品高牌环保大豆四色蓝(HP)
8	1034	Prima Gold Soy Ink Process Black(HP)	品高牌环保大豆四色黑(HP)
9	1045	Prima Gold Soy Ink Process Magenta(MP-Z)	品高牌环保大豆四色红(MP-Z)
10	1046	Prima Gold Soy Ink Process Yellow(MP-Z)	品高牌环保大豆四色黄(MP-Z)
11	1047	Prima Gold Soy Ink Process Cyan(MP-Z)	品高牌环保大豆四色蓝(MP-Z)
12	1048	Prima Gold Soy Ink Process Black(MP-Z)	品高牌环保大豆四色黑(MP-Z)
13	1096	Prima Gold Soy Ink Process Magenta(RP-R)	品高牌环保大豆四色红(RP-R)
14	1097	Prima Gold Soy Ink Process Yellow(RP-R)	品高牌环保大豆四色黄(RP-R)
15	1098	Prima Gold Soy Ink Process Cyan(RP-R)	品高牌环保大豆四色蓝(RP-R)
16	1099	Prima Gold Soy Ink Process Black(RP-R)	品高牌环保大豆四色黑(RP-R)
17	1821	Prima Gold Soy Ink Process Magenta	品高牌环保大豆四色红
18	1822	Prima Gold Soy Ink Process Yellow	品高牌环保大豆四色黄
19	1823	Prima Gold Soy Ink Process Cyan	品高牌环保大豆四色蓝
20	1824	Prima Gold Soy Ink Process Black	品高牌环保大豆四色黑
21	1825	Prima Gold Soy Ink Process Magenta	品高牌环保大豆四色红
22	1826	Prima Gold Soy Ink Process Yellow	品高牌环保大豆四色黄
23	1827	Prima Gold Soy Ink Process Cyan	品高牌环保大豆四色蓝
24	1828	Prima Gold Soy Ink Process Black	品高牌环保大豆四色黑

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序号	货号	产品英文名称	产品中文名称
25	1751	Prima Gold Soy Ink Process Magenta	品高牌环保大豆四色红
26	1752	Prima Gold Soy Ink Process Yellow	品高牌环保大豆四色黄
27	1753	Prima Gold Soy Ink Process Cyan	品高牌环保大豆四色蓝
28	1754	Prima Gold Soy Ink Process Black	品高牌环保大豆四色黑
29	1111	Prima Gold Soy SWOP Yellow	SWOP 四色黄
30	1112	Prima Gold Soy SWOP Magenta	SWOP 四色红
31	1113	Prima Gold Soy SWOP Cyan	SWOP 四色蓝
32	1114	Prima Gold Soy SWOP Black	SWOP 四色黑
33	6091	KPE Process Yellow	KPE 四色黄
34	6092	KPE Process Magenta	KPE 四色红
35	6093	KPE Process Cyan	KPE 四色蓝
36	6094	KPE Process Black	KPE 四色黑
37	IKI-KPE-YELLOW	KPE Process Yellow(Kobe Japan)	日本神户牌 KPE 四色黄
38	IKI-KPE-MAGENT	KPE Process Magenta(Kobe Japan)	日本神户牌 KPE 四色红
39	IKI-KPE-BLUE	KPE Process Cyan(Kobe Japan)	日本神户牌 KPE 四色蓝
40	IKI-KPE-BLACK	KPE Process Black(Kobe Japan)	日本神户牌 KPE 四色黑
41	FC801C	Fluorescent Blue	荧光蓝
42	FC802C	Fluorescent Green	荧光绿
43	FC803C	Fluorescent Yellow	荧光黄
44	FC804C	Fluorescent Orange	荧光橙
45	FC805C	Fluorescent Red	荧光红
46	FC806C	Fluorescent Pink	荧光粉红
47	FC807C	Fluorescent Magenta	荧光紫红
48	FC19	Fluorescent Pink	荧光粉红
49	110-124	Prima Gold Soy Base Ink	品高牌环保大豆基墨
50	10201	Prima Gold Soy Ink Process Black(AP)	品高牌环保大豆四色黑(AP)

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Test Result(s) 1:

Tested Item(s)	Content	Directive 2002/95/EC Limit
Lead (Pb)	N.D.	1000 mg/kg
Mercury (Hg)	N.D.	1000 mg/kg
Cadmium (Cd)	N.D.	100 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	1000 mg/kg

Tested Item(s)	Content	Directive 2002/95/EC Limit
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	1000 mg/kg
Dibromobiphenyl	N.D.	
Tribromobiphenyl	N.D.	
Tetrabromobiphenyl	N.D.	
Pentabromobiphenyl	N.D.	
Hexabromobiphenyl	N.D.	
Heptabromobiphenyl	N.D.	
Octabromobiphenyl	N.D.	
Nonabromobiphenyl	N.D.	
Decabromobiphenyl	N.D.	
Polybrominated Diphenyl Ethers(PBDEs)		
Monobromodiphenyl ether	N.D.	1000 mg/kg
Dibromodiphenyl ether	N.D.	
Tribromodiphenyl ether	N.D.	
Tetrabromodiphenyl ether	N.D.	
Pentabromodiphenyl ether	N.D.	
Hexabromodiphenyl ether	N.D.	
Heptabromodiphenyl ether	N.D.	
Octabromodiphenyl ether	N.D.	
Nonabromodiphenyl ether	N.D.	
Decabromodiphenyl ether	N.D.	

Conclusion: When tested as specified, the results shown on the report do not exceed the required limit of EU RoHS amending Directive 2002/95/EC notified under 2005/618/EC.

Note: -N.D. = Not Detected (<report limit)
 -mg/kg = ppm = parts per million

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(2) EN 71-3:1994

MIGRATION OF CERTAIN ELEMENTS

As Specified in European Standard on Safety of Toys EN 71-3:1994+A1:2000+AC:2002 – Migration of Certain Elements. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma Optical Emission Spectrometer(ICP-OES).

<u>Elements</u>	<u>Result</u> (mg/kg)	<u>Limit</u> (mg/kg)
	Black ink	
Soluble Antimony (Sb)	<5	60
Soluble Arsenic (As)	<2.5	25
Soluble Barium (Ba)	<5	1000
Soluble Cadmium (Cd)	<5	75
Soluble Chromium (Cr)	<2.5	60
Soluble Lead (Pb)	<5	90
Soluble Mercury (Hg)	<2.5	60
Soluble Selenium (Se)	<5	500

Remark:

- < = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor

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(3) ASTM F963-08

ASTM F963-08 CLAUSE 4.3.5 - PAINT & SIMILAR SURFACE-COATING MATERIAL

Heavy Metals Analysis: Total Lead (Clause 4.3.5.1)

Acid digestion method was used and total lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Element</u>	<u>Result (mg/kg)</u>	<u>Limit (mg/kg)</u>
	Black ink	
Total Lead (Pb)	< 5	600

Heavy Metals Analysis: Soluble Heavy Metal (Clause 4.3.5.2)

Acid extraction method was used in accord with ASTM F963-08 (Clause 8.3) and toxic elements content were determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Elements</u>	<u>Result (mg/kg)</u>	<u>Limit (mg/kg)</u>
	Black ink	
Soluble Antimony (Sb)	<5	60
Soluble Arsenic (As)	<2.5	25
Soluble Barium (Ba)	<5	1000
Soluble Cadmium (Cd)	<5	75
Soluble Chromium (Cr)	<2.5	60
Soluble Lead (Pb)	<5	90
Soluble Mercury (Hg)	<2.5	60
Soluble Selenium (Se)	<5	500

Remark:

- < = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor

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(4) TO DETERMINE SIX PHTHALATES CONTENT IN THE SUBMITTED SAMPLE(S)

As Specified in Directive 2005/84/EC of The European Parliament and of The Council of 14 December 2005, with Reference to Method ASTM D3421-75 or other Appropriate Methods, Phthalates were Extracted by Appropriate Organic Reagents and were Determined by Gas Chromatograph with Mass Spectrometer (GC-MS).

<u>Tested Items</u>	<u>Result (%)</u>	<u>Limit (%)</u>
	Black ink	
Di-2-ethylhexyl Phthalate (DEHP)	<0.005	0.1 (total)
Dibutyl Phthalate (DBP)	<0.005	
Benzylbutyl Phthalate (BBP)	<0.005	
Diisononyl Phthalate (DINP)	<0.01	0.1 (total)
Di-n-octyl Phthalate (DNOP)	<0.005	
Diisodecyl Phthalate (DIDP)	<0.01	

Remark:

- < = Less than
- % = Percentage based on dry weight of sample
- This report is amended base on the test report No.SZA090615299501.

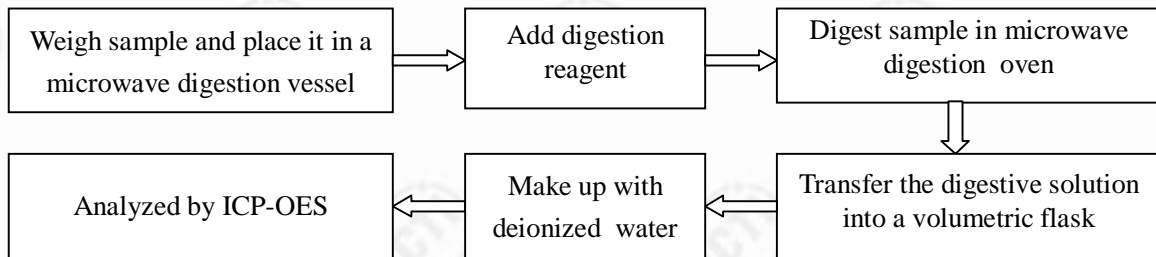
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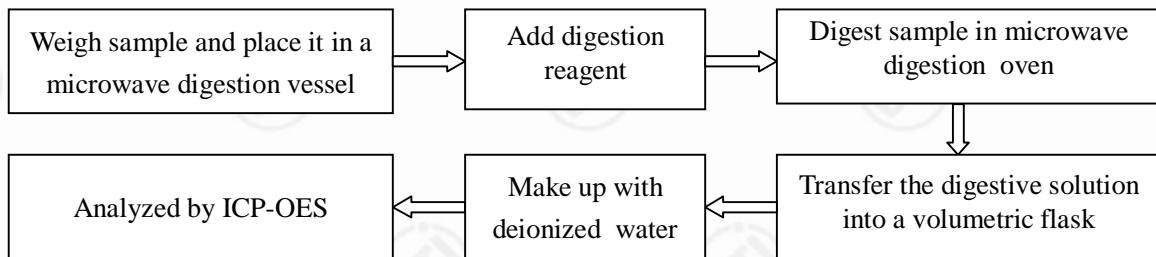
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Test Process 1:

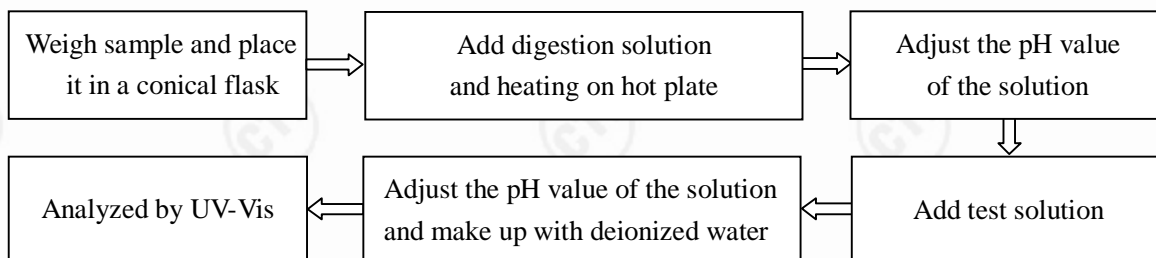
1. Test for Pb/Cd Content



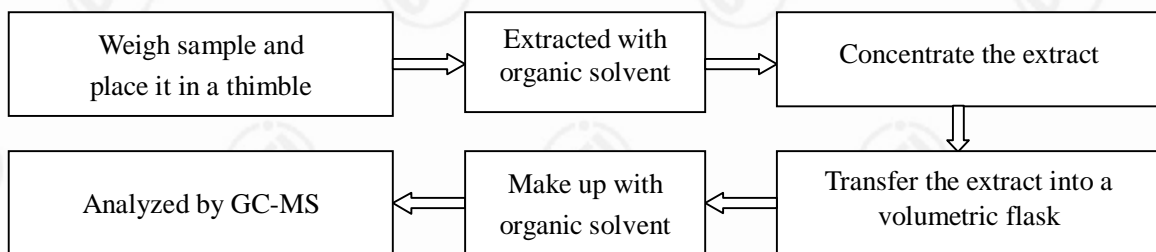
2. Test for Hg Content



3. Test for Chromium(VI) Content



4. Test for PBBs /PBDEs Content



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Photo of the sample



*** End of report ***

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