

Test Report

Report No.:RLSZC0004380801

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Applicant :FLINT PRINT ING INK (ZHU HAI)CO.,LTD

Address :JIN ZHOU ROAD .JIN DING TOUN .ZHUHAI .P.R.CHINA

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

No.	Sample Names	Sample Description
1	101白色油墨	White ink
2	201原黄油墨	Yellow ink
3	303原红油墨	Red ink
4	401翠蓝油墨	Blue ink
5	501黑色油墨	Black ink
6	天那水	Transparent liquid

Sample Received Date :Jan. 20, 2010

Testing Period :Jan. 20, 2010 to Jan. 26, 2010

Test Requested :As specified by client, to screen the fifteen substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH, including Anthracene, 4,4'-Diaminodiphenylmethane, Dibutyl phthalate, Cobaltdichloride, Diarsenic pentaoxide, Diarsenic trioxide, Sodium dichromate, Musk-xylene, Bis(2-ethyl(hexyl)phthalate)(DEHP), Hexabromocyclododecane(HBCDD), Short Chain Chlorinated Paraffins, Bis(tributyltin)oxide, Lead hydrogen arsenate, Benzyl butyl phthalate, Triethyl Arsenate in the submitted sample.

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

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

Regulation Request :See Remark

Summary :According to the analytical results, concentrations of 15 SVHC substances are less than 0.1% in the submitted sample.

Tested by



Technical Manager

Inspected by



Approved by

Date

Jan. 26, 2010

No. 38792741

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Test Method:

Substance Name(s)	Test Method	Measured Equipment(s)	Report Limit
Anthracene	Refer to US EPA 3550C:2007 & US EPA 8270D:2007	GC-MS	0.005%
4,4'-Diaminodiphenylmethane	Refer to US EPA 8270D:2007	GC-MS	0.005%
Dibutyl phthalate (DBP)	Refer to ASTM D3421:1975	GC-MS	0.005%
Cobalt dichloride*	Refer to US EPA 3052:1996 / BS EN14582:2007	ICP-OES/IC	0.01%
Diarsenic pentaoxide*	Refer to US EPA 3052:1996	ICP-OES	0.01%
Diarsenic trioxide*	Refer to US EPA 3052:1996	ICP-OES	0.01%
Sodium dichromate*	Refer to US EPA 3052:1996 / US EPA 3060A:1996	ICP-OES / UV-Vis	0.01%
Musk xylene	Refer to US EPA 3540C:1996	GC-MS	0.005%
Bis(2-ethyl(hexyl)phthalate) (DEHP)	Refer to ASTM D3421:1975	GC-MS	0.005%
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996	GC-MS	0.005%
Short Chain Chlorinated Paraffins (SCCPs)	Refer to US EPA 3540C:1996	GC-MS	0.01%
Bis(tributyltin)oxide (TBTO)*	Refer to US EPA 3052:1996 / DIN 38407:2003	ICP-OES / GC-MS	0.005%
Lead hydrogen arsenate*	Refer to US EPA 3052:1996	ICP-OES	0.01%
Benzyl butyl phthalate (BBP)	Refer to ASTM D3421:1975	GC-MS	0.005%
Triethyl arsenate*	Refer to US EPA 3052:1996	ICP-OES	0.01%

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Test Result(s):

Substance Name(s)	Concentration(%)		
	Sample No.1	Sample No.2	Sample No.3
Anthracene	N.D.	N.D.	N.D.
4,4'- Diaminodiphenylmethane	N.D.	N.D.	N.D.
Dibutyl phthalate(DBP)	N.D.	N.D.	N.D.
Cobalt dichloride*	N.D.	N.D.	N.D.
Diarsenic pentaoxide*	N.D.	N.D.	N.D.
Diarsenic trioxide*	N.D.	N.D.	N.D.
Sodium dichromate*	N.D.	N.D.	N.D.
Musk xylene	N.D.	N.D.	N.D.
Bis(2-ethyl(hexyl)phthalate) (DEHP)	N.D.	N.D.	N.D.
Hexabromocyclododecane (HBCDD)	N.D.	N.D.	N.D.
Short Chain Chlorinated Paraffins(SCCPs)	N.D.	N.D.	N.D.
Bis(tributyltin)oxide (TBTO)*	N.D.	N.D.	N.D.
Lead hydrogen arsenate*	N.D.	N.D.	N.D.
Benzyl butyl phthalate(BBP)	N.D.	N.D.	N.D.
Triethyl arsenate*	N.D.	N.D.	N.D.

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Test Result(s):

Substance Name(s)	Concentration(%)		
	Sample No.4	Sample No.5	Sample No.6
Anthracene	N.D.	N.D.	N.D.
4,4'- Diaminodiphenylmethane	N.D.	N.D.	N.D.
Dibutyl phthalate(DBP)	N.D.	N.D.	N.D.
Cobalt dichloride*	N.D.	N.D.	N.D.
Diarsenic pentaoxide*	N.D.	N.D.	N.D.
Diarsenic trioxide*	N.D.	N.D.	N.D.
Sodium dichromate*	N.D.	N.D.	N.D.
Musk xylene	N.D.	N.D.	N.D.
Bis(2-ethyl(hexyl)phthalate) (DEHP)	N.D.	N.D.	N.D.
Hexabromocyclododecane (HBCDD)	N.D.	N.D.	N.D.
Short Chain Chlorinated Paraffins(SCCPs)	N.D.	N.D.	N.D.
Bis(tributyltin)oxide (TBTO)*	N.D.	N.D.	N.D.
Lead hydrogen arsenate*	N.D.	N.D.	N.D.
Benzyl butyl phthalate(BBP)	N.D.	N.D.	N.D.
Triethyl arsenate*	N.D.	N.D.	N.D.

Note(1): -N.D. = Not Detected (<report limit)

Note(2): *Concentration value of Cobalt dichloride 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 by the conversion from the test results of corresponding heavy metal.

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Substance Information:

Substance Name(s)	CAS No.	EC No.	Classification
Anthracene	120-12-7	204-371-1	PBT
4,4' - Diaminodiphenylmethane	101-77-9	202-974-4	Carcinogen, cat. 2
Dibutyl phthalate(DBP)	84-74-2	201-557-4	Toxic for reproduction, cat.2
Cobalt dichloride*	7646-79-9	231-589-4	Carcinogen, cat.2
Diarsenic pentaoxide*	1303-28-2	215-116-9	Carcinogen, cat.1
Diarsenic trioxide*	1327-53-3	215-481-4	Carcinogen, cat.1
Sodium dichromate*	7789-12-0 /10588-01-9	234-190-3	Carcinogen, cat.2 Mutagen, cat.2 Toxic for reproduction, cat.2
Musk xylene	81-15-2	201-329-4	vPvB
Bis(2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0	Toxic for reproduction, cat.2
Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	PBT
Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	PBT,vPvB
Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	PBT
Lead hydrogen arsenate*	7784-40-9	232-064-2	Carcinogen, cat.1 Toxic for reproduction, cat.1
Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	Toxic for reproduction, cat.2
Triethyl arsenate*	15606-95-8	427-700-2	Carcinogen, cat. 1

Note(3): PBT= Persistent,Bioaccumulative,Toxic; vPvB=very Persistent very Bioaccumulative

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Remark:

1. According to the Article 33 of the Regulation (EC) No 1907/2006 (REACH)-Duty to communicate information on substances in articles.

—Any 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.

— On request by a consumer any 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 consumer with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. The relevant information shall be provided, free of charge, within 45 days of receipt of the request.

2. According to the Article 33 of the Regulation (EC) No 1907/2006 (REACH)- Notification of the Substance in Article.

—If a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), EU and EEA producers or importers of articles have to notify ECHA when their article contains a substance on the Candidate List. This obligation applies if the substance is present above 0.1% (w/w) and its quantities in the produced/imported articles are above 1 tonne in total per year.

3. According to the other articles of the Regulation (EC) No 1907/2006 (REACH), The relevant obligation for the substance on its own or in preparation.

—OBLIGATIONS: SUBSTANCES

From 28 October 2008, EU & EEA suppliers of a substance have to provide a safety data sheet to their customers when the substance is on the Candidate List.

—OBLIGATIONS: PREPARATIONS

From 28 October 2008, EU and EEA suppliers of a preparation not classified as dangerous according to Directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the preparation contains at least one substance on the Candidate List and its individual concentration is at least 0.1% (w/w) for non gaseous preparations and at least 0.2% by volume for gaseous preparations.

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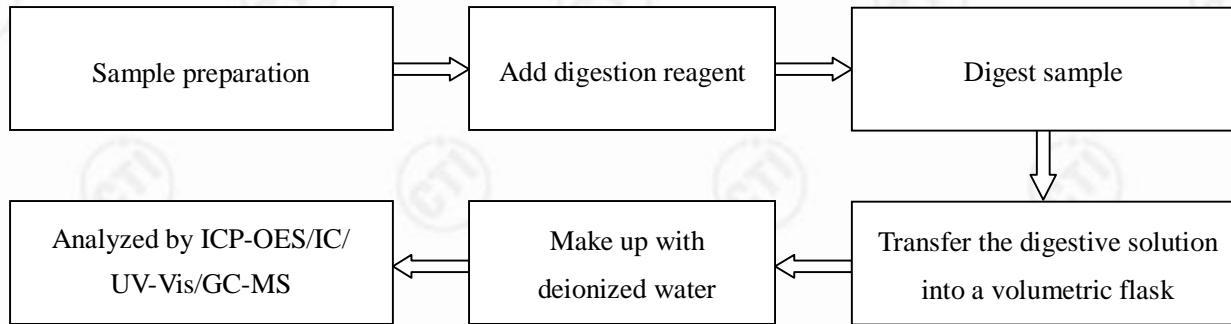
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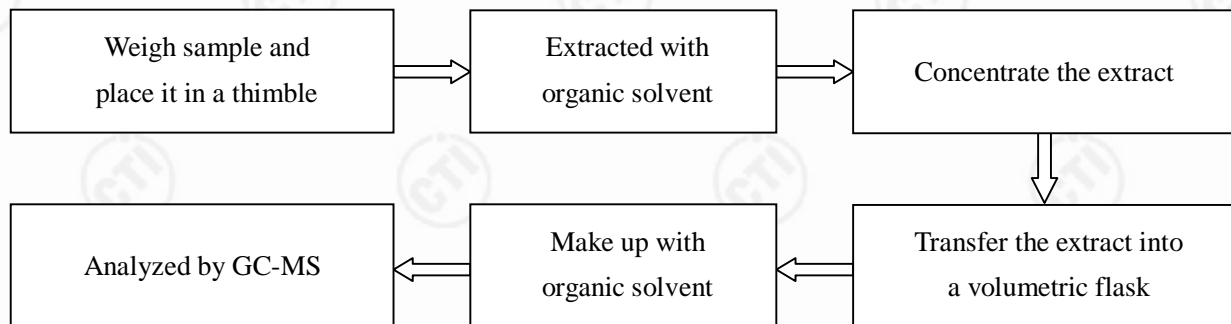
Test Process:

1. Screen for Cobalt dichloride/Diarsenic pentaoxide/Diarsenic trioxide/Sodium dichromate/

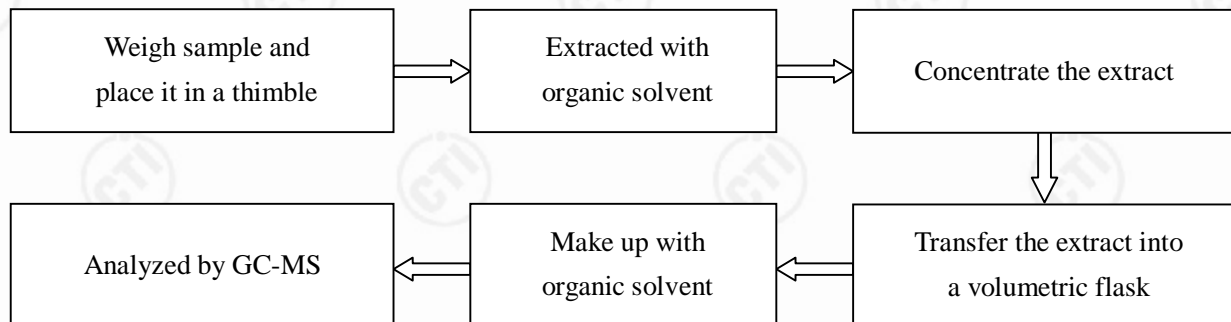
Bis(tributyltin)oxide/Lead hydrogen arsenate/Triethyl arsenate



2. Test for Anthracene Content



3. Test for 4,4'-diaminodiphenylmethane Content

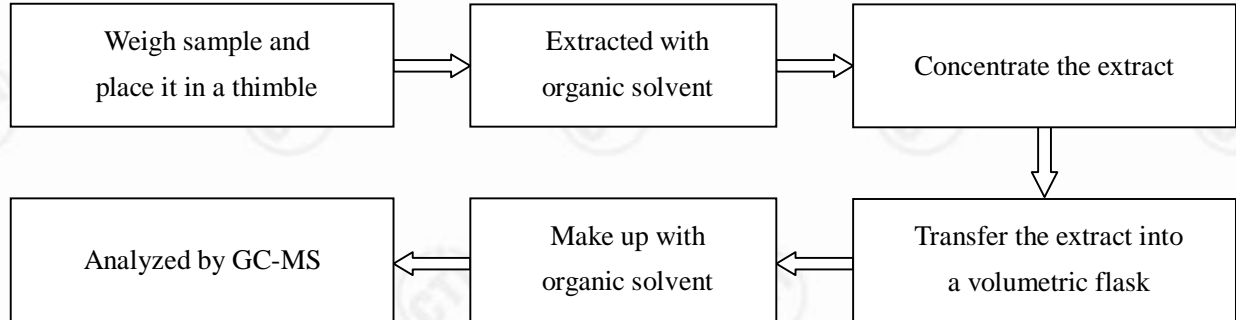


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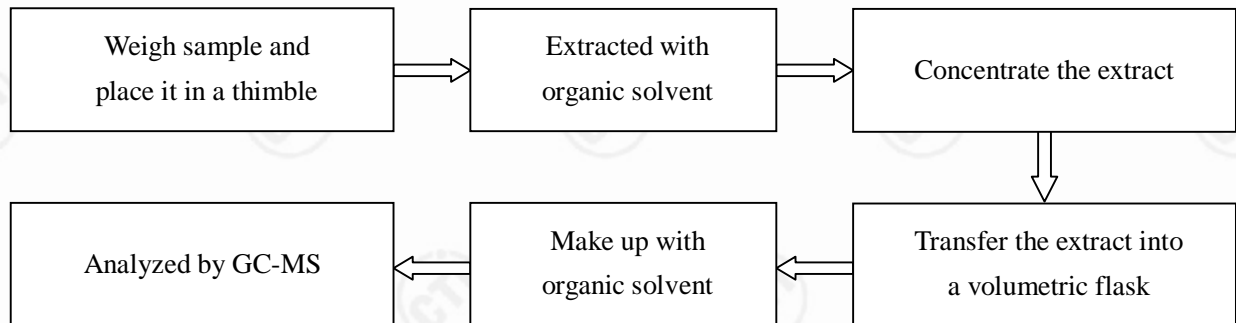
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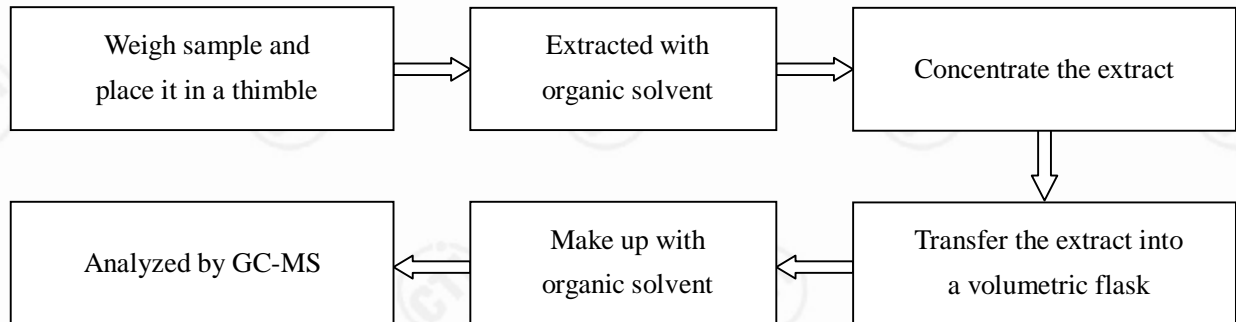
4. Test for Musk xylene/HBCDD Content



5. Test for SCCPs Content



6. Test for DBP/BBP/DEHP Content



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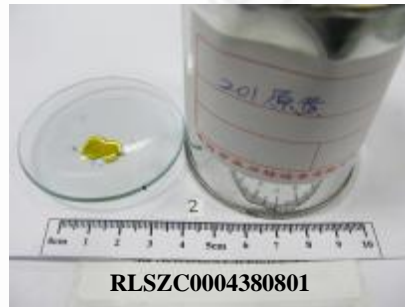
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Photo(s) of the sample(s)

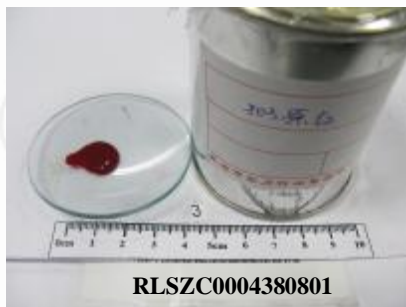
Sample No.1



Sample No.2



Sample No.3



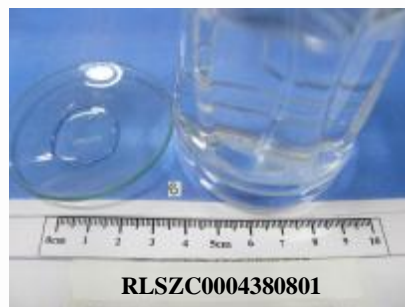
Sample No.4



Sample No.5



Sample No.6



*** End of report ***

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