



**BUREAU  
VERITAS**

# TEST REPORT

**Technical Report:** (9314)244-0609 **REVISED**

SEP 17, 2014

Date Received: SEP 04, 2014

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MODIFIED DATE IN: SEP 12, 2014

**REVISED DATE:** **SEP 26, 2014**

Sample Description: WET PAINTS

Color:	/	Style No(s):	/
Order No.:	/	PO No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	/	Retest No.:	/
Manufacturer:	/	Supplier Reference:	/
Buyer:	/	Country of Origin:	/
Test Period:	SEP 04, 2014 – SEP 17, 2014	Country of Destination:	/
Fiber Content:	/		
Care Instruction:	/		

## SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

ITEM	ITEM DESCRIPTION
1	WHITE COATING (RAW A)

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Phthalates Content	DATA	
Organotin Compounds Content	DATA	
Formaldehyde Content	DATA	
Total Cadmium Content	DATA	
Extractable Heavy Metal	DATA	
Chromium VI Content	DATA	
Azo Dyes Content	DATA	

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**REMARK**

If there are questions or concerns on this report, please contact:

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**BUREAU VERITAS CONSUMER PRODUCTS SERVICES  
(GUANGZHOU) CO., LTD**

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**JOEIE TSANG  
GENERAL MANAGER**



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**Photo of the Submitted Sample**







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**TEST RESULT**

**Formaldehyde Content**

Test item(s)	Unit	Result
Parameter		1
Formaldehyde	(MG/KG)	ND

Test Item 1: WHITE COATING (RAW A)

Note: Abs = Absorbance

Method: ISO 14184-1

**Total Cadmium Content**

Test Method : EN 1122

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
1	WHITE COATING	RAW A	

Maximum Allowable Limit : /

Test Item(s)	Unit	Result
Parameter		1
Total Cadmium (Cd)	mg/kg	ND
Conclusion		DATA



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**TEST RESULT**

**Extractable Heavy Metal**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
1	WHITE COATING	RAW A	-

<b>Maximum Allowable Limit :</b>	/
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Test Item(s)	Unit	Result
<b>Parameter</b>		1
(AS) (mg/kg)	mg/kg	0.03
(Cd) (mg/kg)	mg/kg	<0.02
(CO) (mg/kg)	mg/kg	<0.1
(Cr) (mg/kg)	mg/kg	<0.1
(Cu) (mg/kg)	mg/kg	<5
(Hg) (mg/kg)	mg/kg	<0.005
(Ni) (mg/kg)	mg/kg	0.177
(Pb) (mg/kg)	mg/kg	0.103
(Sb) (mg/kg)	mg/kg	<0.5
(Zn) (mg/kg)	mg/kg	1.73
(Ba) (mg/kg)	mg/kg	1.59
<b>Conclusion</b>		<b>DATA</b>

**Note / Key :**

ND = Not detected      ">" = Greater than      NR = Not requested  
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million  
 % = percent      10000 mg/kg = 1 %  
 Detection Limit (mg/kg) :  
 Total (Pb 25; Hg 10; Sb 30; As 20; Cd 10; Se 50; Ba 50)  
 Soluble (Sb 30; As 20; Cd 10; Se 50; Ba 50)

**Remark :**

- # denotes as reported result(s) was (were) performed by total metal(s) content analysis.



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## TEST RESULT

### Chromium VI Content

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I	WHITE COATING	RAW A	-

Test Item(s)			
Type	-	I	
Test Method	I	EPA 3060A	
Parameter	Unit	Limit <sup>[2]</sup>	Result
Average Chromium VI (Cr VI)	mg/kg	-	ND
<b>Conclusion</b>	<b>DATA</b>		

**Note / Key :**

ND = Not detected

">" = Greater than

"<=" = Less than or equal to

">=" = Greater than or equal to

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

Detection Limit (mg/kg): 3

**Remark :**

- [2] denotes as the limit(s) is (are) not specified by the client.
- Average result(s) was (were) reported from the mean of two trials.
- Ion Chromatography using photometric detector was used for analysis.

**Sample Pre-treatment Conditions in Test Method :**

I	Pre-treatment has not been performed.
II	Pre-treatment has been performed for 24 hours at 80°C and 20% humidity in an oven.

**TEST RESULT**

**Azo Dyes Content** - 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 without extracting the fibers.

The azo dyes were analyzed by Gas Chromatograph Mass Spectrometer and confirmed by Liquid Chromatograph with Diode Array Detector.

**Test Method I** : European Standard EN 14362-1: 2012.

**Test Method II** : International Standard ISO 17234-1: 2010.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I	WHITE COATING	RAW A	-
<b>Maximum Allowable Limit :</b>	/		

Test Item(s)	Result				Conclusion
	Test Method	Detected Analyte(s)	Conc.	Unit	
I	I	ND	-	mg/kg	DATA

Note / Key :

ND = Not detected      ">" = Greater than      Conc. = Concentration  
 mg/kg = milligram(s) per kilogram = ppm = part(s) per million      10 000 mg/kg = 1 %  
 % = percent      EU No. = European Commission Regulation number  
 Detection Limit (mg/kg) : Each 10

Remark : The list of aromatic amines in azo colorants is summarized in table of Appendix.



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## APPENDIX

### List of Azo Dyes content

Name of Analytes	CAS-No. [ EC No. ]
o-Toluidine	95-53-4
2-Methoxyaniline	90-04-0
p-Chloroaniline	106-47-8
p-Kresidine	120-71-8
2,4,5-Trimethylaniline	137-17-7
4-Chloro-o-Toluidine	95-69-2
2,4-Toluylenediamine	95-80-7
2,4-Diaminoanisoole	615-05-4
2-Naphthylamine	91-59-8
2-Amino-4-nitrotoluene	99-55-8
4-Aminodiphenyl	92-67-1
p-Aminoazobenzene	60-09-03
4,4'-Oxydianiline	101-80-4
Benzidine	92-87-5
4,4'- Diaminodiphenylmethane	101-77-9
o-Aminoazotoluene	97-56-3
3,3'-Dimethyl-4,4'- diaminodiphenylmethane	838-88-0
3,3'-Dimethylbenzidine	119-93-7
4,4'-Thiodianiline	139-65-1
3,3'-Dichlorobenzidine	91-94-1
4,4'-Methylene-bis-(2- chloraniline)	101-14-4
3,3'-Dimethoxybenzidine	119-90-4

CAS-No. = Chemical Abstracts Service registry number

EC No. = European Commission number