

TEST REPORT

APPLICANT: Rainbow Forest Ltd.
3D, Kung Lok Building,
44 Kung Lok Road,
Kwun Tong
Hong Kong

REPORT NUMBER: WOSZ58176 (B)
DATE: March 7, 2007

Attn: Mr. Wang Ying

SAMPLE DESCRIPTION: Twenty (20) bottles of submitted sample said to be Toy Lacquer:

(1) TPR Clear Lacquer	(11) PVC Clear Lacquer
(2) ABS Clear Lacquer	(12) K-Plastic Lacquer
(3) PS/ABS Clear Lacquer	(13) FDA Grade Clear Lacquer
(4) FDA Grade Clear Lacquer	(14) PVC Stain Clear Varnish
(5) PS/ABS Clear Lacquer	(15) Hi-Quality PE Baking Enamel in clear
(6) Vacuum Metalized Clear Lacquer	(16) ABS pad ink Clear Lacquer
(7) FDA Grade PS/ABS Clear Lacquer	(17) SBS TPR Pad Ink Clear Lacquer
(8) Polystone Premium Clear Lacquer	(18) FDA Grade Pad Ink Clear Lacquer
(9) High Alcohol Resistant ABS Lacquer in clear	(19) PVC Pad Ink Clear Lacquer
(10) PVC Clear Lacquer	(20) Stain Clear Lacquer

(For details refer to attached pages)

Test stage: Research
Goods exported to: Global
Buyer's Name: McDonald's
Sample received date: March 5, 2007
Date of testing started: March 5, 2007
Date of testing ended: March 7, 2007

TEST CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

PAGE 1/TO BE CONTINUED

TOTAL 9 PAGES

Authorized By:
Intertek Testing Services
Shenzhen Ltd.



Nelson Chan, PhD
General Manager of PRC Operations
Vice President of Asia Pacific Operations
Risk Assessment & Management

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SAMPLE DESCRIPTION:

Applicant's Remark:

<u>Items</u>	<u>Product Code</u>	<u>Color Description</u>
1	3322	TPR Clear Lacquer
2	5322	ABS Clear Lacquer
3	5422	PS/ABS Clear Lacquer
4	5522	FDA Grade Clear Lacquer
5	5622	PS/ABS Clear Lacquer
6	5722	Vacumn Metalized Clear Lacquer
7	5822	FDA Grade PS/ABS Clear Lacquer
8	5922	Polystone Premium Clear Lacquer
9	7122	Hight Alcohol Resistant ABS Lacquer
10	7322	PVC Clear Lacquer
11	7422	PVC Clear Lacquer
12	7722	K-Plastic Lacquer
13	7822	FDA Grade Clear Lacquer
14	7922	PVC Stain Clear Varnish
15	8322	Hi-Quality PE Baking Enamel
16	8622	ABS Pad Ink Clear Lacquer
17	8722	SBS TPR Pad Ink Clear Lacquer
18	8822	FDA Grade Pad Ink Clear Lacquer
19	8922	PVC Pad Ink Clear Lacquer
20	9922	Stain Clear Lacquer

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CONCLUSION:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	McDonald's Specification TS 31 Rev. # 12 - Toxic Elements Analysis	Pass
	U.S. ASTM F963-03 Standard Consumer Safety Specification for Toy Safety -Toxic Elements Analysis	Pass
	European Standard on Safety of Toys EN71 Part 3 : 1994 with Amendment A1 : 2000 and AC:2002 -Toxic Elements Analysis	Pass
	Japan Toy Safety (2002), Part 3, Section 1.5 - Heavy Metal Analysis	Pass

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TEST CONDUCTED:

1 Toxic Elements Analysis

As per McDonald's Specification TS 31 Rev. #12, toxic elements content were determined by Inductively Coupled Plasma Spectrometry.

<u>Paint</u>		<u>Results (mg/kg)</u>				
<u>Elements</u>	<u>Limits</u>	<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	350 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2
<u>Elements</u>	<u>Limits</u>	<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	350 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2
<u>Elements</u>	<u>Limits</u>	<u>(11)</u>	<u>(12)</u>	<u>(13)</u>	<u>(14)</u>	<u>(15)</u>
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	350 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2

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<u>Elements</u>	<u>Limits</u>	<u>Results (mg/kg)</u>				
		<u>(16)</u>	<u>(17)</u>	<u>(18)</u>	<u>(19)</u>	<u>(20)</u>
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	350 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2

mg/kg = milligram per kilogram based on dry weight of tested sample
 < = less than

The analytical results were adjusted by subtracting analytical correction factor.

2 Toxic Elements Analysis

As per U.S. ASTM F963-03 Standard Consumer Safety Specification for Toy Safety, section 4.3.5 and 8.3.4. acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Plasma Spectrometry.

<u>Element</u>	<u>Limit</u>	<u>Result (mg/kg)</u>				
		<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>
Total Lead	600 mg/kg	<10	<10	<10	<10	<10
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	1000 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2

<u>Element</u>	<u>Limit</u>	<u>Result (mg/kg)</u>				
		<u>(6)</u>	<u>(7)</u>	<u>(8)</u>	<u>(9)</u>	<u>(10)</u>
Total Lead	600 mg/kg	<10	<10	<10	<10	<10
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	1000 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
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TEST CONDUCTED:

<u>Element</u>	<u>Limit</u>	<u>Result (mg/kg)</u>				
		(11)	(12)	(13)	(14)	(15)
Total Lead	600 mg/kg	<10	<10	<10	<10	<10
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	1000 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2

<u>Element</u>	<u>Limit</u>	<u>Result (mg/kg)</u>				
		(16)	(17)	(18)	(19)	(20)
Total Lead	600 mg/kg	<10	<10	<10	<10	<10
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	1000 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2

mg/kg = milligram per kilogram based on dry weight of tested sample
 < = less than

The analytical results were adjusted by subtracting analytical correction factor.

3 Toxic Elements Analysis

As per European Standard on Safety of Toys EN71 Part 3: 1994 with Amendment A1:2000 and AC:2002, acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma Spectrometry.

<u>Element</u>	<u>Limit</u>	<u>Result (mg/kg)</u>				
		(1)	(2)	(3)	(4)	(5)
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	1000 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
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Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
Soluble Barium	1000 mg/kg	<2	<2	<2	<2	<2
Soluble Cadmium	75 mg/kg	<2	<2	<2	<2	<2
Soluble Arsenic	25 mg/kg	<2	<2	<2	<2	<2
Soluble Mercury	60 mg/kg	<2	<2	<2	<2	<2
Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
Soluble Antimony	60 mg/kg	<2	<2	<2	<2	<2

<u>Element</u>	<u>Limit</u>	<u>(11)</u>	<u>(12)</u>	<u>(13)</u>	<u>(14)</u>	<u>(15)</u>
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The analysis results were adjusted by subtracting analytical correction factor.

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TEST CONDUCTED:

4 Heavy Metal Analysis

As per Japan Toy Safety Standard(2002), Part 3, Section 1.5 and 2.7, acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma Spectrometry.

<u>Element</u>	<u>Limit</u>	<u>Result (mg/kg)</u>				
		<u>(1)</u>	<u>(2)</u>	<u>(3)</u>	<u>(4)</u>	<u>(5)</u>
Soluble Lead	90 mg/kg	<2	<2	<2	<2	<2
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Soluble Chromium	60 mg/kg	<2	<2	<2	<2	<2
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Soluble Selenium	500 mg/kg	<2	<2	<2	<2	<2
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< = less than

The analysis results were adjusted by subtracting analytical correction factor.