



STC Test Report

Date : 2008-09-11

No. : [REDACTED]

Page 1 of 3
(Duplicate)

Applicant ([REDACTED]) :

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Description of Samples : One bottle of submitted paint sample said to be:
[REDACTED] YELLOW
COUNTRY OF ORIGIN [REDACTED]

Date Samples Received : 2008-08-20

Date Tested : 2008-08-21 to 2008-08-27

Investigation Requested : (1) Toxic element content with reference to European Standard for Safety of Toys - EN71-3:1994, amendment A1:2000/AC:2002.
(2) Heavy elements content in accordance with Mattel Specification QSOP #0006-3600 Rev. M.

Conclusions : The submitted sample complied with the test requirement of Mattel Specification QSOP #0006-3600 Rev. M.

WONG Yau-wai, Johnny
Toys & Children's Products Department
For and on behalf of
The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Taipo Industrial Estate, N.T., Hong Kong
Tel: (852) 26661888 Fax: (852) 26644353 E-mail: hkstc@hkstc.org Homepage: www.hkstc.org

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STC Test Report

Date : 2008-09-11

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Test Results :

1. EN71-3:1994, amendment A1:2000/AC:2002 - Part 3: Migration of certain elements
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Paint (in dry film basis)
Wet paint: yellow

	<u>Result</u>	<u>Limit*</u>
Soluble lead.....	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	500mg/kg

* = For reference only.

2. Heavy elements content on surface coating material
Ref.: Mattel Specification QSOP #0006-3600 Rev. M
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Clause 2.2 Surface Coatings

Paint (in dry film basis)
Wet paint: yellow

Total content analysis

	<u>Result</u>	<u>Total Limit</u>
Lead.....	<5ppm	90ppm
Cadmium.....	<10ppm	100ppm
Chromium.....	10ppm	-
Barium.....	<5ppm	-
Antimony.....	<5ppm	-
Arsenic.....	<5ppm	-
Mercury.....	<5ppm	10ppm
Selenium.....	<5ppm	-
Hexavalent Chromium.....	<5ppm	1000ppm

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	<u>Result</u>	<u>Soluble limit for method 1</u>
Lead.....	<2ppm	90ppm
Cadmium.....	<2ppm	75ppm
Chromium.....	<2ppm	60ppm
Barium.....	<2ppm	500ppm
Antimony.....	<2ppm	60ppm
Arsenic.....	<2ppm	25ppm
Mercury.....	<2ppm	-
Selenium.....	<2ppm	300ppm

	<u>Result</u>	<u>Soluble limit for method 2</u>
Lead.....	-	-
Cadmium.....	<10ppm	1000ppm
Chromium.....	-	-
Barium.....	<10ppm	1000ppm
Antimony.....	<10ppm	1000ppm
Arsenic.....	<10ppm	1000ppm
Mercury.....	-	-
Selenium.....	<10ppm	1000ppm

***** End of Test Report *****

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Applicant ([REDACTED]) :

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Description of Samples : One bottle of submitted paint sample said to be:
[REDACTED] BLUE
COUNTRY OF ORIGIN: [REDACTED]

Date Samples Received : 2008-08-20

Date Tested : 2008-08-20 to 2008-08-27

Investigation Requested : (1) Toxic element content with reference to European Standard for Safety of Toys - EN71-3:1994, amendment A1:2000/AC:2002.
(2) Heavy elements content in accordance with Mattel Specification QSOP #0006-3600 Rev. M.

Conclusions : The submitted sample complied with the test requirement of Mattel Specification QSOP #0006-3600 Rev. M.

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Date : 2008-09-11

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Test Results :

1. EN71-3:1994, amendment A1:2000/AC:2002 - Part 3: Migration of certain elements
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Paint (in dry film basis)
Wet paint: blue

	<u>Result</u>	<u>Limit*</u>
Soluble lead.....	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	500mg/kg

* = For reference only.

2. Heavy elements content on surface coating material
Ref.: Mattel Specification QSOP #0006-3600 Rev. M
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Clause 2.2 Surface Coatings

Paint (in dry film basis)
Wet paint: blue

Total content analysis

	<u>Result</u>	<u>Total Limit</u>
Lead.....	<5ppm	90ppm
Cadmium.....	<10ppm	100ppm
Chromium.....	<5ppm	-
Barium.....	<5ppm	-
Antimony.....	<5ppm	-
Arsenic.....	<5ppm	-
Mercury.....	<5ppm	10ppm
Selenium.....	<5ppm	-
Hexavalent Chromium.....	<5ppm	1000ppm

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	<u>Result</u>	<u>Soluble limit for method 1</u>
Lead.....	<2ppm	90ppm
Cadmium.....	<2ppm	75ppm
Chromium.....	<2ppm	60ppm
Barium.....	<2ppm	500ppm
Antimony.....	<2ppm	60ppm
Arsenic.....	<2ppm	25ppm
Mercury.....	<2ppm	-
Selenium.....	<2ppm	300ppm

	<u>Result</u>	<u>Soluble limit for method 2</u>
Lead.....	-	-
Cadmium.....	<10ppm	1000ppm
Chromium.....	-	-
Barium.....	<10ppm	1000ppm
Antimony.....	<10ppm	1000ppm
Arsenic.....	<10ppm	1000ppm
Mercury.....	-	-
Selenium.....	<10ppm	1000ppm

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Applicant ([REDACTED]) :

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Description of Samples : One bottle of submitted paint sample said to be:
[REDACTED] MAGENTA
COUNTRY OF ORIGIN: [REDACTED]

Date Samples Received : 2008-08-20

Date Tested : 2008-08-21 to 2008-08-27

Investigation Requested : (1) Toxic element content with reference to European Standard for Safety of Toys - EN71-3:1994, amendment A1:2000/AC:2002.
(2) Heavy elements content in accordance with Mattel Specification QSOP #0006-3600 Rev. M.

Conclusions : The submitted sample complied with the test requirement of Mattel Specification QSOP #0006-3600 Rev. M.

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Test Results :

1. EN71-3:1994, amendment A1:2000/AC:2002 - Part 3: Migration of certain elements
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Paint (in dry film basis)
Wet paint: magenta

	<u>Result</u>	<u>Limit*</u>
Soluble lead.....	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	500mg/kg

* = For reference only.

2. Heavy elements content on surface coating material
Ref.: Mattel Specification QSOP #0006-3600 Rev. M
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Clause 2.2 Surface Coatings

Paint (in dry film basis)
Wet paint: magenta

Total content analysis

	<u>Result</u>	<u>Total Limit</u>
Lead.....	<5ppm	90ppm
Cadmium.....	<10ppm	100ppm
Chromium.....	6ppm	-
Barium.....	<5ppm	-
Antimony.....	<5ppm	-
Arsenic.....	<5ppm	-
Mercury.....	<5ppm	10ppm
Selenium.....	<5ppm	-
Hexavalent Chromium.....	<5ppm	1000ppm

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	<u>Result</u>	<u>Soluble limit for method 1</u>
Lead.....	<2ppm	90ppm
Cadmium.....	<2ppm	75ppm
Chromium.....	<2ppm	60ppm
Barium.....	<2ppm	500ppm
Antimony.....	<2ppm	60ppm
Arsenic.....	<2ppm	25ppm
Mercury.....	<2ppm	-
Selenium.....	<2ppm	300ppm

	<u>Result</u>	<u>Soluble limit for method 2</u>
Lead.....	-	-
Cadmium.....	<10ppm	1000ppm
Chromium.....	-	-
Barium.....	<10ppm	1000ppm
Antimony.....	<10ppm	1000ppm
Arsenic.....	<10ppm	1000ppm
Mercury.....	-	-
Selenium.....	<10ppm	1000ppm

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Applicant ([REDACTED]) :

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Description of Samples : One bottle of submitted paint sample said to be:
[REDACTED] BLACK
COUNTRY OF ORIGIN: [REDACTED]

Date Samples Received : 2008-08-20

Date Tested : 2008-08-20 to 2008-08-27

Investigation Requested : (1) Toxic element content with reference to European Standard for Safety of Toys - EN71-3:1994, amendment A1:2000/AC:2002.
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Test Results :

1. EN71-3:1994, amendment A1:2000/AC:2002 - Part 3: Migration of certain elements
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Paint (in dry film basis)
Wet paint: black

	<u>Result</u>	<u>Limit*</u>
Soluble lead.....	<2mg/kg	90mg/kg
Soluble cadmium.....	<2mg/kg	75mg/kg
Soluble chromium.....	<2mg/kg	60mg/kg
Soluble barium.....	<2mg/kg	1000mg/kg
Soluble antimony.....	<2mg/kg	60mg/kg
Soluble arsenic.....	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	60mg/kg
Soluble selenium.....	<2mg/kg	500mg/kg

* = For reference only.

2. Heavy elements content on surface coating material
Ref.: Mattel Specification QSOP #0006-3600 Rev. M
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Clause 2.2 Surface Coatings

Paint (in dry film basis)
Wet paint: black

Total content analysis

	<u>Result</u>	<u>Total Limit</u>
Lead.....	<5ppm	90ppm
Cadmium.....	<10ppm	100ppm
Chromium.....	9ppm	-
Barium.....	<5ppm	-
Antimony.....	<5ppm	-
Arsenic.....	<5ppm	-
Mercury.....	<5ppm	10ppm
Selenium.....	<5ppm	-
Hexavalent Chromium.....	<5ppm	1000ppm

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	<u>Result</u>	<u>Soluble limit for method 1</u>
Lead.....	<2ppm	90ppm
Cadmium.....	<2ppm	75ppm
Chromium.....	<2ppm	60ppm
Barium.....	<2ppm	500ppm
Antimony.....	<2ppm	60ppm
Arsenic.....	<2ppm	25ppm
Mercury.....	<2ppm	-
Selenium.....	<2ppm	300ppm

	<u>Result</u>	<u>Soluble limit for method 2</u>
Lead.....	-	-
Cadmium.....	<10ppm	1000ppm
Chromium.....	-	-
Barium.....	<10ppm	1000ppm
Antimony.....	<10ppm	1000ppm
Arsenic.....	<10ppm	1000ppm
Mercury.....	-	-
Selenium.....	<10ppm	1000ppm

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