

中国北京进出口玩具检验中心
BEIJING IMPORT & EXPORT TOY INSPECTION
CENTER OF CHINA

正本
ORIGINAL

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TEST REPORT

No. : W20080185
Date: 30 Jan 2008

Applicant:
Address:

Sample Description: 64 Colours of wax crayons submitted by the applicant (photo appendix included)

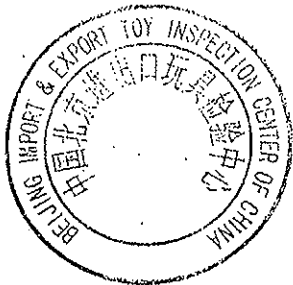
Style / Item No. : /
Country of Origin : China
Sample Received Date : 25 Jan 2008
Testing Period : 25 Jan 2008 – 29 Jan 2008

Test Requested : For compliance with the American National Standard ASTM F963-03 - Standard Consumer Safety Specification for Toy Safety:
Section 4.3.5: Paint and Similar Surface - Coating Material

Test Method : As specified in:
ASTM F963-03: Method to Dissolve Soluble Matter
Heavy element analysis was performed by atomic absorption spectrometry /
Inductively coupled plasma-atomic emission spectrometry.

Results : Please refer to next pages.

Conclusion : The submitted samples, as tested, were found to comply with the American National Standard ASTM F963-03 - Standard Consumer Safety Specification for Toy Safety:
Section 4.3.5: Paint and Similar Surface – Coating Material



Signed for and on behalf of
Beijing I&E Toy Inspection Center of China


Sun Zhen / Director

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Results:

American National Standard ASTM F963-03 - Standard Consumer Safety Specification for Toy Safety
Section 4.3.5: Paint and Similar Surface - Coating Material

Details of analytical sample:

- | | |
|--------------------------------|--------------------------------------|
| (1) Dark red wax crayon | (2) Blue green wax crayon |
| (3) Soil red wax crayon | (4) Orange red wax crayon |
| (5) Violet wax crayon | (6) Purple red wax crayon |
| (7) Deep pink wax crayon | (8) Medium blue wax crayon |
| (9) Yellow wax crayon | (10) Deep purple wax crayon |
| (11) Yellowish pink wax crayon | (12) Jade-green wax crayon |
| (13) Brown pale wax crayon | (14) Light jade-blue wax crayon |
| (15) Ultramarine wax crayon | (16) Peach red wax crayon |
| (17) Light purple wax crayon | (18) Juvenile wax crayon |
| (19) Umber orange wax crayon | (20) Yellow ochre light |
| (21) Olive green wax crayon | (22) Lilac wax crayon |
| (23) Forest green wax crayon | (24) Royal red wax crayon |
| (25) Camel wax crayon | (26) Silver gray wax crayon |
| (27) Purple brown wax crayon | (28) Lithol rubine wax crayon |
| (29) Gorgeous blue wax crayon | (30) Deep brown wax crayon |
| (31) Royal green wax crayon | (32) Sky blue wax crayon |
| (33) Grey light wax crayon | (34) Apricot red wax crayon |
| (35) Crimson red wax crayon | (36) Light burnt sienna wax crayon |
| (37) Jade-blue wax crayon | (38) Navy green wax crayon |
| (39) Blue grey wax crayon | (40) Purple rose wax crayon |
| (41) White wax crayon | (42) Vermilion wax crayon |
| (43) Black wax crayon | (44) Rose wax crayon |
| (45) Green light wax crayon | (46) Yellow wax crayon |
| (47) Cobalt blue wax crayon | (48) Yellow ochre wax crayon |
| (49) Grey wax crayon | (50) Phthalocyanine blue wax crayon |
| (51) Pink wax crayon | (52) Green wax crayon |
| (53) Violet wax crayon | (54) Apricot yellow wax crayon |
| (55) Burnt sienna wax crayon | (56) Yellow mid wax crayon |
| (57) Blackish green wax crayon | (58) Yellowish pink light wax crayon |
| (59) Scarlet wax crayon | (60) Brick red wax crayon |
| (61) Everblue wax crayon | (62) Pink light wax crayon |
| (63) Orange yellow wax crayon | (64) Blue wax crayon |

Element		(1)	(2)	(3)	(4)	Limit
Soluble Antimony	(Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic	(As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium	(Ba)	258	180	163	224	1000 mg/kg
Soluble Cadmium	(Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium	(Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead	(Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury	(Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium	(Se)	<10	<10	<10	<10	500 mg/kg

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Element		(5)	(6)	(7)	(8)	Limit
Soluble Antimony (Sb)		<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)		<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)		144	287	257	168	1000 mg/kg
Soluble Cadmium (Cd)		<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)		<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)		<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)		<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)		<10	<10	<10	<10	500 mg/kg
Element		(9)	(10)	(11)	(12)	Limit
Soluble Antimony (Sb)		<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)		<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)		128	377	211	171	1000 mg/kg
Soluble Cadmium (Cd)		<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)		<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)		<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)		<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)		<10	<10	<10	<10	500 mg/kg
Element		(13)	(14)	(15)	(16)	Limit
Soluble Antimony (Sb)		<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)		<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)		303	180	175	207	1000 mg/kg
Soluble Cadmium (Cd)		<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)		<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)		<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)		<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)		<10	<10	<10	<10	500 mg/kg
Element		(17)	(18)	(19)	(20)	Limit
Soluble Antimony (Sb)		<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)		<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)		175	332	406	190	1000 mg/kg
Soluble Cadmium (Cd)		<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)		<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)		<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)		<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)		<10	<10	<10	<10	500 mg/kg
Element		(21)	(22)	(23)	(24)	Limit
Soluble Antimony (Sb)		<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)		<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)		205	284	146	133	1000 mg/kg
Soluble Cadmium (Cd)		<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)		<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)		<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)		<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)		<10	<10	<10	<10	500 mg/kg

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Element	(25)	(26)	(27)	(28)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	207	204	31.9	257	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(29)	(30)	(31)	(32)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	229	158	94.9	157	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(33)	(34)	(35)	(36)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	145	244	183	191	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(37)	(38)	(39)	(40)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	160	230	184	168	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(41)	(42)	(43)	(44)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	239	327	256	232	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

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Element	(45)	(46)	(47)	(48)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	247	223	235	227	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(49)	(50)	(51)	(52)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	204	260	139	200	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(53)	(54)	(55)	(56)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	202	253	256	319	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(57)	(58)	(59)	(60)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	58.5	146	220	352	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

Element	(61)	(62)	(63)	(64)	Limit
Soluble Antimony (Sb)	<10	<10	<10	<10	60 mg/kg
Soluble Arsenic (As)	<10	<10	<10	<10	25 mg/kg
Soluble Barium (Ba)	167	199	208	231	1000 mg/kg
Soluble Cadmium (Cd)	<10	<10	<10	<10	75 mg/kg
Soluble Chromium (Cr)	<10	<10	<10	<10	60 mg/kg
Soluble Lead (Pb)	<10	<10	<10	<10	90 mg/kg
Soluble Mercury (Hg)	<10	<10	<10	<10	60 mg/kg
Soluble Selenium (Se)	<10	<10	<10	<10	500 mg/kg

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Remarks:

1. \leq less than
2. mg/kg = milligrams per kilogram.
3. Results shown are adjusted analytical value.

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Photo Appendix

Products Photo



BTI authenticates the photo on ORIGINAL report only

**** End of report ****

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