

TEST REPORT

NUMBER : DELC08000079 Rev.1
DATE : 08TH APRIL, 2008

PHOTO



ORIGINAL SAMPLE



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APPLICANT: MAYA ORGANIC INDIA PVT. LTD.
NO. 25/1-4, 9TH CROSS
MARENAHALLIPALYA, JP NAGAR
2ND PHASE, BANGALORE - 560078

ATTN: **Mr. MURALI**

SAMPLE DESCRIPTION: THE SUBMITTED SAMPLE SAID TO BE – WOODEN TOYS (BABY BUILDING BLOCKS)

NO. OF SAMPLE : 01 COMPLETE SET
DATE RECEIVED : 05TH JANUARY, 2008
BUYER : --
BUYING AGENT : --
ORDER NO. : --
STYLE NO. : --
COLOUR : MULTI
END USE : TOY FOR 2 TO 5 YEARS AGE CHILDREN
MANUFACTURER'S NAME : MAYA ORGANIC INDIA PVT. LTD.

TESTS CONDUCTED: AS PER THE REQUEST OF THE APPLICANT. FOR FURTHER DETAILS PLEASE REFER TO THE ENCLOSED PAGES.

CONCLUSION:

<u>TESTED SAMPLE</u>	<u>TEST CONDUCTED</u>	<u>RESULT</u>
SUBMITTED SAMPLE	FLAMMABILITY TEST (ASTM F963-07 / 16 CFR 1500.44)	M
	PHYSICAL & MECHANICAL TESTS (ASTM F963-07)	M
	HEAVY METAL ANALYSIS (ASTM F963-07)	M
	LEAD IN SURFACE COATING (ASTM F963-07 / 16 CFR 1303)	M

NOTE: M = MEET CLIENT'S REQUIREMENT F = BELOW CLIENT'S REQUIREMENT

= NO SPECIFIED REQUIREMENT N/A = NOT APPLICABLE

EXECUTIVE SUMMARY: THE SUBMITTED SAMPLE EXHIBITS **SATISFACTORY** PERFORMANCE IN THE PERFORMED TEST.

REMARK:

1. TEST REPORT NO. DELC08000079 DATED 14/01/2008, HAS BEEN REVISED TO INCORPORATE AGE GROUP OF CHILDREN INTO END USE CATEGORY, AS PER THE REQUEST OF APPLICANT.
2. AS PER VENDOR DARK GREEN SURFACE COATING HAS BEEN USED ON SAMPLE TESTED UNDER REPORT NO. DDE/2007/2504, THEREFORE RESULTS OF LEAD IN SURFACE COATING HAVE BEEN INCORPORATED FROM REPORT NO. DDE/2007/2504.

PREPARED & CHECKED BY:
for INTERTEK TESTING SERVICES, INDIA

PARVIN MORE
ASST. MANAGER-CHEMICAL & HARDLINE LAB



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TESTS CONDUCTED:

TEST SPEC.	TEST METHOD	REQUIREMENT	RESULT
Flammability of solids	ASTM F963-07e1, Section 4.2 & Annex A4 / 16 CFR 1500.44	Burn rate \leq 0.10 inch/s. along the major axis of the toy, accept. Burn rate $>$ 0.10 inch/s. but $<$ 0.15 inch/s. along the major axis of the toy, accept but further investigation for improving performance should be considered. Exempt Kite.	Pass (Did not Ignite)
*Lead Content in Paint and Similar Surface Coating Materials	ASTM F963-07e1, Section 4.3.5.1 / 16 CFR 1303	Paint and other similar surface-coating materials applied to toys shall not contain lead or lead compounds in which the lead content is in excess of 0.06% (600ppm) of the weight of the total content. In case of insufficient coating for testing found on number of samples specified in the protocol, vendor needs to provide additional samples or parts for testing.	Pass (See Data-1) (See Remark)
* Soluble heavy metals content in Paint and Similar Surface Coating Materials	ASTM F963-07e1, Section 4.3.5.2 / 8.3	Paint and other similar surface-coating materials applied to toys shall not contain compounds of which the metal content of the <i>soluble</i> material exceeds the levels by weight (mg/kg) of the contained solid including pigments, film solids and driers [Antimony (Sb) 60, Arsenic (As) 25, Barium (Ba) 1000, Cadmium (Cd) 75, Chromium (Cr) 60, Lead (Pb) 90, Mercury (Hg) 60, Selenium (Se) 500]	Pass (See Data-2)
Small Objects	ASTM F963-07e1, Section 4.6.1 / 16 CFR 1501	Toys intended for children under 36 months (3 years) of age shall not include removable, liberated components, or fragments of toys before or after use and abuse that are small enough (without being compressed) to fit entirely within the small parts cylinder.	Pass
Accessible Edges	ASTM F963-07e1, Section 4.7 / 16 CFR 1500.49	Toys intended for children under 8 years of age shall not have accessible, potentially hazardous sharp edges before or after use and abuse testing	Pass (No Accessible Sharp edges observed)
Projections	ASTM F963-07e1, Section 4.8	Toys intended for children under 8 years of age shall not have accessible, potentially hazardous projections before or after use and abuse testing	Pass
Accessible Points	ASTM F963-07e1, Section 4.9.3 / 16 CFR 1500.48	Toys intended for children under 8 years of age shall not have accessible, potentially hazardous sharp points before or after use and abuse testing	Pass (No Accessible Sharp points observed)
Cords, Straps and Elastics in Toys	ASTM F963-07e1, Section 4.14.1 / 8.23	Shall be less than 12 in (300 mm) long and not permit the passage of the head probe when tested in accordance with 8.23. Breakaway feature in cord loop that fail the head probe shall be separated at less than 5 lb.	N/A
Pull Toys	ASTM F963-07e1, Section 4.14.3	Toys intended for children under 36 months (3 years) of age with cords or elastics greater than 12 in (300 mm) shall not be provided with attachments that could tangle to form a loop	N/A
Stability and Overload	ASTM F963-07e1, Section 4.15 / 8.16 & 8.21	Shall meet the requirements intended to minimize unexpected hazards that can be caused by a toy that can tip easily or unexpected hazards that could be caused by a toy that is not capable of withstanding an overload.	N/A (Not A Ride-on Toy)



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TEST SPEC.	TEST METHOD	REQUIREMENT	RESULT
Wheels, Tires and Axles	ASTM F963-07e1, Section 4.17	Shall meet the requirements intended to eliminate the possibility of ingestion, laceration, and puncture hazards that may be caused by the separation of associated assemblies	N/A
Holes, Clearances, and Accessibility of Mechanisms	ASTM F963-07e1, Section 4.18	Shall meet the requirements intended to eliminate the possible hazard that may be caused by changing clearances or permanent entrapment and pinching of fixed openings	Pass (See Data-3)
Teethers and Teething Toys	ASTM F963-07e1, Section 4.22 / 16 CFR 1510	Samples shall meet the dimensional requirements for rattles with reference to 16 CFR 1510	N/A
Rattles	ASTM F963-07e1, Section 4.23 / 16 CFR 1510	Samples shall meet the safety requirements as specified in 16 CFR 1510	N/A
Impact / Drop Test	ASTM F963-07e1, Section 8.7	Shall meet the requirements given below for different age group of children: For 0-18 months: withstand 10 drops at 4.5 Ft. height 18-36 months: withstand 4 drops at 3.0 Ft. heights. 36-96 months: withstand 4 drops at 3.0 Ft. heights.	Pass
Tension Test for removal of components	ASTM F963-07e1, Section 8.9	Shall meet the requirements given below for different age group of children: For 0-18 months: withstand a minimum of 10 lbs. load. 18-36 months: withstand a minimum of 15 lbs. load. 36-96 months: withstand a minimum of 15 lbs. load.	Pass
Torque Test for removal of components	ASTM F963-07e1, Section 8.8	Shall meet the requirements given below for different age group of children: For 0-18 months: withstand a minimum of 2 in.lbs. torque. 18-36 months: withstand a minimum of 3 in.lbs. torque. 36-96 months: withstand a minimum of 4 in.lbs. torque.	Pass
Compression Test	ASTM F963-07e1, Section 8.10	Shall meet the requirements given below for different age group of children: For 0-18 months: withstand a minimum of 20 lbs. load. 18-36 months: withstand a minimum of 25 lbs. load. 36-96 months: withstand a minimum of 30 lbs. load.	Pass

REMARK: N/A = NOT APPLICABLE



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DATA-1

LEAD IN SURFACE COATING:

AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE ASTM E 1645 / 1613, 16 CFR PART 1303, ACID DIGESTION METHOD WAS USED AND LEAD CONTENT WAS DETERMINED BY INDUCTIVELY COUPLED PLASMA (I C P).

<u>TESTED COMPONENT</u>	<u>RESULTS</u>	<u>REQUIREMENT</u>
DARK GREEN COLOR COATING	COMPLIES < 0.001% (< 10 PPM)	SHALL NOT EXCEED 600-PPM (0.06% BY WEIGHT) TOTAL LEAD.
YELLOW COLOR COATING	COMPLIES < 0.001% (< 10 PPM)	

REMARK: < = LESS THAN, PPM: PARTS PER MILLION

DATA-2

SOLUBLE HEAVY METAL ANALYSIS:

COATING

AS PER AMERICAN STANDARD ON SAFETY OF TOYS ASTM F963-07, ACID EXTRACTION METHOD WAS USED AND TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED PLASMA SPECTROMERTY.

<u>ELEMENTS</u>	<u>RESULT IN mg/kg</u>	<u>LIMIT IN mg/kg</u>
SOL. BARIUM (Ba)	<2	1000
SOL. LEAD (Pb)	20.01	90
SOL. CADMIUM (Cd)	< 2	75
SOL. ANTIMONY (Sb)	< 2	60
SOL. SELENIUM (Se)	< 2	500
SOL. CHROMIUM (Cr)	< 2	60
SOL. MERCURY (Hg)	< 2	60
SOL. ARSENIC (As)	< 2	25

SOL. = SOLUBLE
< = LESS THAN
mg/kg = MILLIGRAM PER KILOGRAM



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RETEST DATA-3

HOLES, CLEARANCES, AND ACCESSIBILITY OF MECHANISMS:

AS PER ASTM F963-07 SECTION 4.18 (CIRCULAR HOLES IN RIGID MATERIAL)

<u>TESTED SAMPLE</u>	<u>RESULT</u>	<u>REQUIREMENT</u>
CIRCULAR HOLES IN CYLINDRICAL WOODEN BLOCKS	COMPLIES (ADMITS 6 mm DIA. ROD & ALSO ADMITS 13 mm ROD)	IF AN ACCESSIBLE CLEARANCE ADMIT A 1/4 in. (6 mm) DIAMETER ROD TO A DEPTH OF 3/8IN (10mm) OR GREATER, THEN IT SHOULD ALSO ADMIT A 1/2 in. (13 mm) DIAMETER ROD.

END OF TEST REPORT