

Test Report

No. 2178486/TY

Date : Mar 13 2008

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HOPSTECH INDUSTRIES LTD.
ROOM 1411, BLK. A,
HOI LUEN INDUSTRIAL CENTRE,
55 HOI YUEN ROAD, KWUN TONG,
KOWLOON, HONG KONG

The following samples were submitted and identified on behalf of the client as:
ZOOB MOVER

Detail of Sample : PLASTIC MOVER WITH MOVABLE FUNCTION, OPERATED BY 4 "AA"
BATTERIES (INCLUDED), COMES WITH A CONTROLLER WITH LIGHT,
OPERATED BY A "9V" BATTERY (INCLUDED), CONNECTERS AND
INSTRUCTION SHEETS. PRINTED BOX PACKED.

Style/Item No. : #12060
Buyer : INFINITOY, INC.
Manufacturer : HOPSTECH INDUSTRIES LTD.
Country of Origin : CHINA
Country of Destination : USA, EUROPE
Labeled Age Grading : AGES 6 AND UP
Requested Age Grading : 6 AND UP
Age Group Applied in Testing : OVER 3 YEARS
Sample Receiving Date : 1ST Submitted Sample Date : JAN 18, 2008
2ND Submitted Sample Date : MAR 06, 2008
Testing Period : JAN 18, 2008 TO MAR 12, 2008

TESTING REQUESTED :

For compliance with the Physical & Mechanical, Flammability, Total Lead & Heavy Metal and Battery Operated Toys test requirements of ASTM F963-07 Standard Consumer Safety Specification on Toy Safety.

RESULTS :

Details please refer to next page.

CONCLUSION :

The submitted sample comply with the requested test requirements.

----- Tested Sample Returned -----

Signed for and on behalf of
SGS Hong Kong Ltd



Lui Tat Wah, Wallace
Senior Technical Manager



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Results :

ASTM F963 – 07

AS SPECIFIED IN ASTM F963-07 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clause Relevant to Sample.

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.0	<u>Safety Requirements</u>	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Note 1)</u>
4.3.5	Paint & Similar Surface-coating Material (As per client's request, composite samples are analyzed.)	<u>Pass (See Note 2)</u>
4.6.3	Labelling Requirements	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.10	Wires or Rods	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Packaging Film	<u>Pass</u>
4.18	Holes, Clearance & Accessibility of Mechanisms	<u>Pass</u>
4.25	Battery-Operated Toys	<u>Pass</u>
5.0	<u>Safety Labelling Requirements</u>	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	<u>Pass</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
6.0	<u>Instructional Literature</u>	
6.6	Battery-Operated Toys	<u>Pass</u>
7.0	<u>Producers Markings</u>	
7.1	Producers Markings	<u>Pass</u>
8.0	<u>Test Methods</u>	
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>
8.10	Compression Test	<u>Pass</u>
8.12	Flexure Test	<u>Pass</u>

** Visual Examination

Note 1 :

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

ZOOB MOVER

Burning Rate (inch/sec)

0.03

Requirement : A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

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Note 2 :

Paint & Similar Surface-coating Material (Clause 4.3.5.)

ASTM F963-07 – Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

TOTAL LEAD CONTENT – SAMPLES WERE DIGESTED IN NITRIC ACID (1+1) AND CONCENTRATED HYDROCHLORIC ACID BY MICROWAVE DIGESTION SYSTEM. ANALYSIS WAS PERFORMED BY ATOMIC ABSORPTION OR INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

<u>Element</u>	<u>Blue Wet Paint</u>	<u>Limit</u>
Total Lead (Pb)	67	600 mg/kg

(Result shown is of the total weight of dry sample)

ASTM F963-07 – Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

SOLUBLE HEAVY METALS CONTENTS – SAMPLES WERE EXTRACTED BY DILUTE HYDROCHLORIC ACID IN ACCORDANCE WITH ASTM F963-07 (CLAUSE 8.3). ANALYSIS WAS PERFORMED BY ATOMIC ABSORPTION OR INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

<u>Element</u>	<u>Blue Coating (Bug)</u>	<u>Limit</u>
Soluble Lead (Pb)	< 5	90 mg/kg
Soluble Antimony (Sb)	< 5	60 mg/kg
Soluble Arsenic (As)	< 5	25 mg/kg
Soluble Barium (Ba)	23	1000 mg/kg
Soluble Cadmium (Cd)	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	60 mg/kg
Soluble Mercury (Hg)	< 6.7	60 mg/kg
Soluble Selenium (Se)	< 10	500 mg/kg

Note : - < = Less than

- Results of soluble elements shown are of the adjusted analytical result.

N.B. : - Only applicable clauses were shown.

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