



CONSUMER PRODUCTS SERVICES DIVISION

Technical Report: (8511)150-0086(A)
Date Received: May 30, 2011

June 07, 2011
Page 1 of 14

John N. Hansen Co., Inc.
369 Adrian Road
Millbrae, CA 94030

| | | | |
|-----------------------------|----------------------------------|--------------------|--------------------------------|
| Sample Description: | TETRIS LINKS TABLETOP GAME PARTS | | |
| Vendor: | LF PRODUCTS PTE. LTD. | Sample Size: | 6+1LOT(S) |
| Manufacturer: | MASTER PRO LIMITED | Style No(s): | 1600 |
| Buyer: | N/A | SKN/SKU No.: | N/A |
| Labeled Age Grade: | 6+ | PO No.: | N/A |
| Appropriate Age Grade: | OVER 6 YEARS OF AGE | Ref #: | N/A |
| Client Specified Age Grade: | NOT SPECIFIED | Country of Origin: | CHINA |
| Tested Age Grade: | OVER 6 YEARS OF AGE | Assortment No.: | N/A |
| UPC Code: | 801561016000 | Protocol No.: | WMRT-8000-US, WMRT-10000-US |

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The flammability requirements of 16 CFR 1500.3(c)(6)(vi), "Flammable solid" (FHSA regulations).
- The labeling requirements of ASTM F963-08, "Standard consumer safety specification for toy safety".
- The mechanical hazards requirements of ASTM F963-08, "Standard consumer safety specification for toy safety".
- The soluble heavy metals content requirements of ASTM F963-08, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2.
- In lieu of testing and at the request of the client, COC has been provided which indicates compliance with the heavy metals content in packaging requirements of Model Toxics Legislation of the Coalition of Northeastern Governors (CONEG).
- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The performance requirement of client's specification.
- The heavy metals content of substrate materials requirement in Walmart's specification.
- The soluble heavy metals content of surface coating requirement in Walmart's specification.
- In lieu of testing and at the request of the client, documentation has been provided which indicates compliance with the phthalates content requirements of the client's specification.



EXECUTIVE SUMMARY:

The sample(s) & parts MEET the following requirement(s):

- The total lead content of surface coating requirements of Illinois Lead Poisoning Prevention Act, Public Act 095-1019, in client's specification (40ppm).
- The total lead content of 90ppm requirements of 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314. **

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-08, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.

Note: The received sample(s) contained scrapable surface coating material(s) of less than 10 milligrams by weight on one single sample, therefore such coating material(s) was not subject to the soluble heavy metals analysis of ASTM F963-08, "Standard consumer safety specification on toy safety", Section 4.3.5.2, as specified in Section 8.3.3.1(2).

Note: Insufficient surface coatings were found on the submitted samples. Therefore, the heavy metals tests were conducted on the submitted parts.

Note: The received sample(s) contained scrapable surface coating material(s) of less than 10 milligrams by weight on one single sample, therefore such coating material(s) was not subject to soluble metal content of Walmart's specification.

BUREAU VERITAS SHENZHEN CO.,LTD

Wendy Cha
Manager
Toys And Juvenile Products Department

WC/cj



RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-08, "Standard Consumer Safety Specification on Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable

| Test | Test Parameters | Standard Reference |
|------------------|------------------------|---------------------------|
| Impact Test | 4 x 3 ft | 1500.53(b) |
| Torque Test | 4 in-lbs | 1500.53(e) |
| Tension Test | 15 lbs | 1500.53(f) |
| Compression Test | 30 lbs | 1500.53(g) |



RESULTS:

PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-08)

| Section | Requirement | Result |
|---------|---|--------|
| 4.1 | Material Quality | M |
| 4.3.7 | Stuffing Materials – Visual Inspection | N/A |
| 4.5 | Sound-Producing Toys | N/A |
| 4.6 | Small Objects | N/A |
| 4.7 | Accessible Edges | M |
| 4.8 | Projections | N/A |
| 4.9 | Accessible Points | M |
| 4.10 | Wires and Rods | N/A |
| 4.11 | Nails and Fasteners | N/A |
| 4.12 | Packaging Film | M |
| 4.13 | Folding Mechanisms and Hinges | N/A |
| 4.14 | Cords, Straps and Elastics | N/A |
| 4.15 | Stability and Over-Load Requirements | N/A |
| 4.16 | Confined Spaces | N/A |
| 4.17 | Wheels, Tires, and Axles | N/A |
| 4.18 | Holes Clearances, and Accessibility of Mechanisms | N/A |
| 4.19 | Simulated Protective Devices | N/A |
| 4.20 | Pacifiers | N/A |
| 4.21 | Projectile Toys | N/A |
| 4.22 | Teethers and Teething Toys | N/A |
| 4.23 | Rattles | N/A |
| 4.24 | Squeeze Toys | N/A |
| 4.25 | Battery-Operated Toys (exclude section 4.25.10 Battery-powered ride-on toys) | N/A |
| 4.26 | Toys Intended to be Attached to a Crib or Playpen | N/A |
| 4.27 | Stuffed and Beanbag-Type Toys | N/A |
| 4.30 | Toy Gun Marking | N/A |
| 4.32 | Certain Toys with Spherical Ends | N/A |
| 4.34 | Small Balls | N/A |
| 4.35 | Pompoms | N/A |
| 4.36 | Hemispheric-Shaped Objects | N/A |
| 4.37 | Yo Yo Elastic Tether Toys | N/A |
| 4.38 | Magnets | N/A |
| 4.39 | Jaw Entrapment in Handles and Steering Wheels | N/A |

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section



RESULTS:

LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-08)

| Section | Requirement | Result |
|-------------------------------------|---|--------|
| Safety Labeling Requirements | | |
| 5.4 & 5.3 | Aquatic Toys | N/A |
| 5.5 & 5.3 | Crib and Playpen Toys | N/A |
| 5.6 & 5.3 | Mobiles | N/A |
| 5.7 & 5.3 | Stroller and Carriage Toys | N/A |
| 5.8 & 5.3 | Toys Intended to be Assembled by an Adult | N/A |
| 5.9 & 5.3 | Simulated Protective Devices | N/A |
| 5.10 & 5.3 | Toys with Functional Sharp Edges and Sharp Points | N/A |
| 5.11 | Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19) | N/A |
| 5.12 | Toy Caps (16 CFR 1500.86 for Required Labeling) | N/A |
| 5.13 | Art Materials (16 CFR 1500.14(b)(8)) | N/A |
| 5.15 | Battery-Operated Toys | N/A |
| 5.15.1 & 5.3 | Battery-Powered Ride-On Toys | N/A |
| 5.16 | Promotional Materials | M |
| 5.17 & 5.3 | Magnets | N/A |
| Instructional Literature | | |
| 6.1 | Definition and Description | M |
| 6.2 | Crib and Playpen Toys | N/A |
| 6.3 | Mobiles | N/A |
| 6.4 & 5.3 | Toys Intended to be Assembled by an Adult | N/A |
| 6.5.1-2 | Battery-Operated Toys | N/A |
| 6.5.3 | Battery-Powered Ride-On Toys | N/A |
| 6.6 | Toys in Contact with Food | N/A |
| Producer's Markings | | |
| 7.1 | Producer's Name and Address | M |
| 7.2 | Battery-Powered Ride-on Toys | N/A |

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

FLAMMABILITY (16 CFR SECTION 1500.3(c)(6)(vi))

| Requirement | Test Method Reference | Findings |
|---|-----------------------|---|
| Burn rate no greater than 0.1 of an inch per second | 16 CFR 1500.44 | Most rapid burn rate less than 0.1 of an inch per second. |



RESULTS:

CLAIM VERIFICATION

| Claims | Classification | Results | Rating |
|---|------------------------------|------------------------|--------|
| Licensing, letter of "Tetris" | Doc. Review licensing letter | Documentation provided | FYI |
| Contents: game tower 2 attachable tower feet 100 game pieces 14 colors Playing die Instructions | Actual test: Visual / count | Result: As claim | Pass |

FYI = For information only

Dimension Measurement Attachment

| Component | Length (In.) | | Count(No.) | | Height (In.) | | Weight (g.) | |
|----------------------|---------------|---------|------------|---------|---------------|---------|--------------|---------|
| | Measured | Claimed | Measured | Claimed | Measured | Claimed | Measured | Claimed |
| Game tower | - | - | 1 | 1 | - | - | - | - |
| Game pieces(4 color) | - | - | 100 | 100 | - | - | - | - |
| Tower feet | - | - | 2 | 2 | - | - | - | - |
| Playing die | - | - | 1 | 1 | - | - | - | - |
| Instructions | - | - | 1 | 1 | - | - | - | - |



RESULTS:

TOTAL LEAD CONTENT IN SURFACE COATING BY COMPOSITE TESTING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

| Element: | | | | Lead | | |
|---------------------------------------|-------------------|-----------------|-------|----------------|-----------|------------|
| Requirement: Maximum allowable limit: | | | | 90 mg/kg | | |
| Sample Description | | | | Result (mg/kg) | | Conclusion |
| | Color / Component | Location | Style | Overall | Potential | |
| (A) | Silver coating | Game tower | | LT 10 | - | PASS |
| | Black coating | Game tower | | | - | |
| | | Parts | | | | |
| | White coating | Detachable feet | | | - | |
| | | Parts | | | | |

LT = Less Than

* = Average of duplicate analyses

mg/kg = milligrams per kilogram (ppm=parts per million)

Potential = Estimated lead content per component is based on calculation by component individual weight

TOTAL LEAD CONTENT IN SURFACE COATING (Illinois General Assembly, Public Act 095-1019)

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry

| Analyte | | | | Lead | | |
|---------------------------------------|-------------------|-----------------|-------|----------------|--|------------|
| Requirement: Maximum allowable limit: | | | | 40 mg/kg | | |
| Sample Description | | | | Lead (Pb) | | Conclusion |
| | Color / Component | Location | Style | Result (mg/kg) | | |
| (A) | Silver coating | Game tower | | LT 10 | | PASS |
| | Black coating | Game tower | | | | |
| | | Parts | | | | |
| | White coating | Detachable feet | | | | |
| | | Parts | | | | |

LT = Less Than

* = Average of duplicate analysis

mg/kg = milligrams per kilogram (ppm=parts per million)



RESULTS:

HEAVY METALS CONTENT IN SUBSTRATE (Walmart's specification)

| | | | | | | | | | |
|-----------------------|-----|------|-----|-----|----|----|-----|-----|--|
| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | |
| Maximum Limit (mg/kg) | 25 | 1000 | 75 | 60 | NA | NA | 60 | 500 | |
| Analytical Correction | 60% | 30% | 30% | 30% | NA | NA | 60% | 60% | |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | | |
|---------|----------------|-------|-------|-------|-------|----|----|-------|------------|------|
| Method | Result (mg/kg) | | | | | | | | Conclusion | |
| H | (T) | LT 10 | LT 10 | LT 10 | LT 10 | - | - | - | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | LT 2 | - | |
| I | (T) | LT 10 | 13 | LT 10 | LT 10 | - | - | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | - | |
| J | (T) | LT 10 | LT 10 | LT 10 | LT 10 | - | - | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | - | |
| K | (T) | LT 10 | LT 10 | LT 10 | LT 10 | - | - | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | - | |

mg/kg = milligrams per kilogram (ppm=parts per million)
 T = Total analysis
 S = Soluble analysis
 CR = adjusted analytical result

* = Average of duplicate analysis
 LT = Less Than
 As = Arsenic, Ba = Barium, Cd = Cadmium,
 Cr = Chromium, Hg = Mercury, Pb = Lead,
 Sb = Antimony, Se = Selenium



RESULTS:

TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

| | |
|---------------------------------------|-----------|
| Analyte | Lead |
| Requirement: Maximum allowable limit: | 100 mg/kg |

| Analyte | Sample Description | | | Lead (Pb) | Conclusion |
|---------|---|---|-------|----------------|------------|
| | Color / Component | Location | Style | Result (mg/kg) | |
| (A) | Black plastic | Game tower, detachable feet and playing die | | LT 10 | PASS |
| (B) | Transparent plastic | Game tower | | LT 10 | PASS |
| (C) | Blue plastic | Game tower | | LT 10 | PASS |
| (D) | Yellow plastic | Game tower | | LT 10 | PASS |
| (E) | Green plastic | Game tower | | LT 10 | PASS |
| (F) | Pink plastic | Game tower | | LT 10 | PASS |
| (G) | Translucent yellow plastic | Tetriminos | | LT 10 | PASS |
| (H) | Translucent blue plastic | Tetriminos | | LT 10 | PASS |
| (I) | Translucent red plastic | Tetriminos | | LT 10 | PASS |
| (J) | Translucent green plastic | Tetriminos | | LT 10 | PASS |
| (K) | Clear laminated multi-color printed white paper sticker | Playing die | | LT 10 | PASS |

LT = Less Than

* = Average of duplicate analyses

mg/kg = milligrams per kilogram (ppm=parts per million)



RESULTS:

HEAVY METALS CONTENT IN SURFACE COATING (Walmart's specification)

| Sample Identity | Color / Component | Location | Style |
|-----------------|-------------------|------------|-------|
| A | Silver coating | Game tower | |

| Analyte | As | Ba | Cd | Cr | Sb | Se |
|-----------------------|-----|------|-----|-----|-----|-----|
| Maximum Limit(mg/kg) | 25 | 1000 | 75 | 60 | 60 | 500 |
| Analytical Correction | 60% | 30% | 30% | 30% | 60% | 60% |

| Analyte | As | Ba | Cd | Cr | Sb | Se | Conclusion |
|---------|----------------|------|------|------|------|------|------------|
| Sample | Result (mg/kg) | | | | | | |
| A | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | PASS |

LT = Less Than * = Average of duplicate analysis
 CR = adjusted analytical result As = Arsenic, Ba = Barium, Cd = Cadmium,
 mg/kg = milligrams per kilogram (ppm=parts per million) Cr = Chromium, Sb = Antimony, Se = Selenium

SOLUBLE HEAVY METALS CONTENT (ASTM F963-08, Section 4.3.5.2)

Test Method: Soluble heavy metals content analysis was determined by Inductively Coupled Plasma Spectrometry.

| Sample Identity | Color / Component | Location | Style |
|-----------------|-------------------|------------|-------|
| A | Silver coating | Game tower | |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|-----------------------|-----|------|-----|-----|-----|-----|-----|-----|
| Maximum Limit (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Analytical Correction | 60% | 30% | 30% | 30% | 50% | 30% | 60% | 60% |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | Mass of Trace Amount | Conclusion |
|---------|----------------|------|------|------|------|------|------|------|----------------------|------------|
| Sample | Result (mg/kg) | | | | | | | | (g) | |
| A | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0379 | PASS |

LT = Less Than As = Arsenic, Ba = Barium, Cd = Cadmium,
 CR = adjusted analytical result Cr = Chromium, Hg = Mercury, Pb = Lead,
 mg/kg = milligrams per kilogram (ppm=parts per million) Sb = Antimony, Se = Selenium
 * = Average of duplicate analysis



RESULTS:

WAL-MART TEST PROTOCOL FOR

**WMRT – 08000 - US
 TOYS (V 42)**

| Evaluation | Citation / Method | Criteria | Comments | Results | Rating |
|---|---------------------------------|--|----------|---------|--------|
| QUALITY/PERFORMANCE | | | | | |
| Instructions Review | CPSD-HL-01057-MTHD / Visual | Shall include assembly, use, maintenance, and safety information as required with no errors or spelling mistakes. Furniture items only: Verify that instructions comply with client requirements. | | M | PASS |
| UPC Bar Codes | CPSD-HL-01057-MTHD / Visual | [Wal-Mart Requirement] The price sticker containing UPC bar codes on the retail cartons must be legible. These UPC codes must be scanned and inspected for accuracy. | | M | PASS |
| Use labeling / Instruction Languag | CPSD-HL-01057-MTHD / Visual | Use/care instructions that are clear and understandable, if provided, shall be in English for items sold in the United States. Instructions for proper operating procedure and basic functions (if provided) shall be clear and concise. | | M | PASS |
| Packaging Materials | Client's requirements | Staples shall not be used in packaging for children's products where the child is intended to open the package (i.e. header cards attached to polybags) | | M | PASS |
| Plastic Packaging and Twist Tie Packaging | Walmart Requirement | No plastic packaging (e.g. blister packaging and plastic tie) or twist ties packaging shall be used. Report as data only. | | NA | - |
| Wire twist ties | Walmart Requirement | [For Department 7 only] Coated or uncoated wire twist tie shall not present. | | M | PASS |
| Defects | CPSD-HL-01057-MTHD / Visual | Shall have no components missing, malformed, and/or fractured. | | M | PASS |
| Defects | CPSD-HL-01057-MTHD / Visual | Shall have no discernible surface degradation, including crazing, shivering, denting, bubbles, cracks, stains, deformations, chips, fractures, heavy lines, waves, shear marks, scratches, scuff marks, indentations, or blisters. | | M | PASS |
| Actual use - functionality - not covered by other tests | CPSD-HL-01058-MTHD / Actual use | Shall function as as received and after use and abuse. Report details of evaluation (features tested / methods used / materials used / etc.) Report any features not evaluated. | | M | PASS |



RESULTS:

WAL-MART TEST PROTOCOL FOR

**WMRT – 08000 - US
 TOYS (V 42)**

| Evaluation | Citation / Method | Criteria | Comments | Results | Rating |
|----------------------------------|--------------------------|---|-----------------|----------------|---------------|
| Colorfastness to crocking | AATCC 8 | [Textile components on Toys only] [Dry] Grade 3 minimum | | NA | - |
| Colorfastness to crocking | AATCC 8 | [Textile components on Toys only] [Wet] Grade 2 minimum | | NA | - |
| Colorfastness to rotary crocking | AATCC 116 | [Textile components on Toys only] [Dry] Grade 3 minimum | | NA | - |
| Colorfastness to rotary crocking | AATCC 116 | [Textile components on Toys only] [Wet] Grade 2 minimum | | NA | - |

Result Key:

C Claimed
 R Recorded
 M Meets
 NM Does Not Meet
 NA Not Applicable
 NT Not Tested

Rating Key:

PASS Pass
 FAIL Fail

RESULTS:

