



SHANTOU CHENGHAI LUCK STRNG ANIMATION LTD..

Technical Report: (8822)157-0076(A)

Date Received: Jun 6, 2022

Jun 23, 2022

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SHANTOU CHENGHAI LUCK STRNG ANIMATION
LTD..
CHENGHAI, SHANTOU CITY, GUANGDONG, CHINA

| | | | |
|-----------------------------|----------------------------------|---------------------|----------------|
| Sample Description: | ANIMALS SERIES / DINOSAUR SERIES | Sample Size: | 8 |
| Vendor: | N/A | Style No(s): | SEE ATTACHMENT |
| Manufacturer: | N/A | SKN/SKU No.: | NOT PROVIDE |
| Labeled Age Grade: | 3+ | PO No.: | NOT PROVIDE |
| Appropriate Age Grade: | NOT REQUESTED | Ref #: | NOT PROVIDE |
| Client Specified Age Grade: | 3+ | | |
| Tested Age Grade: | OVER 3 YEARS OF AGE | Country of Origin: | NOT PROVIDE |
| UPC Code: | N/A | Assortment No.: | NOT PROVIDE |
| Resubmitted Sample Date: | JUN 22, 2022 | | |
| Test Starting Date: | JUN 6, 2022 | Test Finished Date: | JUN 23, 2022 |

EXECUTIVE SUMMARY:

| Test Requested | Conclusion |
|---|------------|
| Mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety". | PASS |
| Labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety". | PASS |
| Flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys". | PASS |
| Total lead content in surface coating requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.1(1). | PASS |
| Total lead content in substrate requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.2(2)(a). | PASS |

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Hunter Lin
Assistant Manager, Analytical Lab



Rose Ge
Supervisor, Toys Lab

RT/ Aurora Fang

REMARK

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 89952999 Ext. 8175 CPSAnalytical.DG@bureauveritas.com

Business Contact: (86) 0769 85893595

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Bureau Veritas Shenzhen Co., Ltd., Dongguan
Branch
No.96, Houjie, Guantai Road., Houjie,
Dongguan, Guangdong, China
Tel: +86-769-89982098
Fax: +86-769-85991080
www.cps.bureauveritas.com

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EXECUTIVE SUMMARY:

| Test Requested | Conclusion |
|--|------------|
| Soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2). | PASS |
| Soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b). | PASS |
| Total lead content of 90ppm requirements in surface coating (Consumer Products Safety Improvement Act (CPSIA) of 2008). | PASS |
| Total lead content of 100ppm requirements in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008). | PASS |
| Phthalates (BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP & DCHP) content requirements of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) and 108(c), 16 CFR 1307). | PASS |
| Total lead content requirements in children products according to the California Proposition 65 settlements of Alameda Superior Court RG 07356892. | PASS |
| BBP, DBP, DEHP, DnHP and DIDP content requirements in toys, child care articles and watches according to the California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050. | PASS |

Note: At the request of the client, the sample(s) was evaluated for use by children 3+.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.



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ATTACHMENT:

Style No(s):

39671,39666,39667,39668,39669, XMY-W12, M16100, XMY-D12, T1、 T2、 T3、 T4、 T5, XMY- F12, XMY-D12, XMY-W12, M01 ,M02,M03,M04 ,M05,M06,M07 ,M08,M09,M10, M11, M12, M13, M14, M15, M16, M17, M18, M19, M20,M21,M22, M23, M24, M25, M26, M27, M28, M29, M30, M31, M32, M33, M34, M35, M36, M37, M38, M39, M40, M41, M42,M43, M44, M45, M46, M47, M48, M49, M50, M51, M52, M53, M54, M55, M56, M57,M58,M59,M60,961,962,963,964

Tested Component(s) Description List:

| Test Item(s) | Item / Component Description(s) | Location(s) | Style(s) |
|--------------|---------------------------------|-------------|----------|
| I001 | Orange coating | Dinosaur | - |
| I002 | Blue coating | Dinosaur | - |
| I003 | Black coating | Dinosaur | - |
| I004 | White coating | Dinosaur | - |
| I005 | Red coating | Dinosaur | - |
| I006 | Brown coating | Dinosaur | - |
| I007 | Black PVC | Dinosaur | - |
| I008 | Gary PVC | Dinosaur | - |
| I009 | Blue PVC | Dinosaur | - |
| I010 | Brown PVC | Dinosaur | - |
| I011 | Orange PVC | Dinosaur | - |
| I012 | Deep green PVC | Dinosaur | - |
| I013 | Pink PVC | Sheep | - |
| I014 | Yellow PVC | Starfish | - |
| I015 | Green PVC | Tortoise | - |
| I016 | Light brown PVC | Lion | - |
| I017 | White PVC | Giraffe | - |
| I018 | Beige PVC | Zebra | - |



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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 F963-17, "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) |



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RESULTS:

PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

| Section | Requirement | Result |
|----------------|--|---------------|
| 4.1 | Material Quality | M |
| 4.3.7 | Stuffing Materials | 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 | Plastic Film | N/A |
| 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 & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries) | 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 Nearly 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 |
| 4.40 | Expanding Materials | N/A |

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



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RESULTS:

LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-17)

| Section | Requirement | Result |
|----------------|---|---------------|
| 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 or Sharp Points | N/A |
| 5.11 | Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19) | M |
| 5.12 | Toy Caps (16CFR1500.86) | N/A |
| 5.13 | Art Materials (16 CFR 1500.14(b)(8)) | N/A |
| 5.15 | Battery-Operated Toys (exclude 5.15.1 and 5.15.2) | N/A |
| 5.15.1 & 5.3 | Battery-Powered Ride-On Toys | N/A |
| 5.15.2 & 5.3 | Button or Coin Cell Batteries | N/A |
| 5.16 | Promotional Materials | M |
| 5.17 & 5.3 | Magnets | N/A |
| 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 | Battery-Operated Toys | N/A |
| 6.6 | Battery-Powered Ride-On Toys | N/A |
| 6.7 | Toys in Contact with Food | N/A |
| 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. |



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RESULTS:

Total Lead Content in Surface Coating – ASTM International Standard ASTM F963-17, Section 4.3.5.1(1)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

| | |
|---------------------------|----------|
| Maximum Allowable Limit : | 90 mg/kg |
|---------------------------|----------|

| Test Item(s) | Result | Unit | Conclusion |
|----------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I001+I002+I003 | ND | mg/kg | PASS |
| I004+I005+I006 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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RESULTS:

Total Lead Content in Substrate – ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(a)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

| | |
|---------------------------|-----------|
| Maximum Allowable Limit : | 100 mg/kg |
|---------------------------|-----------|

| Test Item(s) | Result | Unit | Conclusion |
|----------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I007+I008+I009 | ND | mg/kg | PASS |
| I010+I011+I012 | ND | mg/kg | PASS |
| I013+I014+I015 | ND | mg/kg | PASS |
| I016+I017+I018 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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RESULTS:

Soluble Heavy Metals Content in Surface Coating –ASTM F963-17, Section 4.3.5.1(2)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.4

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|---------------------------|----|------|----|----|----|----|----|-----|
| Max. 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 |
|--------------|----------------|----|----|----|----|----|----|----|----------------------|------------|
| Test Item(s) | Result (mg/kg) | | | | | | | | (g) | |
| I001 | ND | ND | ND | ND | ND | ND | ND | ND | 0.0201 | PASS |
| I002 | ND | ND | ND | ND | ND | ND | ND | ND | 0.0213 | PASS |
| I003 | ND | ND | ND | ND | ND | ND | ND | ND | 0.0181 | PASS |
| I004 | ND | ND | ND | ND | ND | ND | ND | ND | 0.0198 | PASS |
| I005 | ND | ND | ND | ND | ND | ND | ND | ND | 0.0241 | PASS |
| I006 | ND | ND | ND | ND | ND | ND | ND | ND | 0.0320 | PASS |

Note / key:

As = Arsenic

Ba = Barium

Cd = Cadmium

Cr = Chromium

Hg = Mercury

Pb = Lead

Sb = Antimony

Se = Selenium

ND = Not detected

g = gram(s)

% = percent

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50



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RESULTS:

Soluble Heavy Metals Content in Substrate –ASTM F963-17, Section 4.3.5.2(2)(b)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|----------------------------|----|------|----|----|----|----|----|-----|
| Max. Limit Type I (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Max. Limit Type II (mg/kg) | 25 | 250 | 50 | 25 | 25 | 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 |
|--|----------------|----|----|----|----|----|----|----|----------------------|------------|
| Test Item(s) | Result (mg/kg) | | | | | | | | (g) | |
| Type I: Substrate other than modeling clay | | | | | | | | | | |
| I007 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I008 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I009 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I010 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I011 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I012 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I013 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I014 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I015 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I016 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I017 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |
| I018 | ND | ND | ND | ND | ND | ND | ND | ND | - | PASS |

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
ND = Not detected g = gram(s) % = percent
mg/kg = milligram(s) per kilogram (ppm=parts per million)

Detection Limit (mg/kg) :

For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50

For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.



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RESULTS:

Total Lead Content in Surface Coating – Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 101(f)

Test Method : U.S. CPSC-CH-E1003-09.1:2011

| | |
|---------------------------|----------|
| Maximum Allowable Limit : | 90 mg/kg |
|---------------------------|----------|

| Test Item(s) | Result | Unit | Conclusion |
|----------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I001+I002+I003 | ND | mg/kg | PASS |
| I004+I005+I006 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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RESULTS:

**Total Lead Content in Substrate Materials – Consumer Product Safety Improvement Act (CPSIA) of 2008
Sec. 101(a)(2)**

Test Method : U.S. CPSC-CH-E1002-08.3:2012 and U.S. CPSC-CH-E1001-08.3:2012

| | |
|---------------------------|-----------|
| Maximum Allowable Limit : | 100 mg/kg |
|---------------------------|-----------|

| Test Item(s) | Result | Unit | Conclusion |
|----------------|-----------------|-------|------------|
| | Total Lead (Pb) | | |
| I007+I008+I009 | ND | mg/kg | PASS |
| I010+I011+I012 | ND | mg/kg | PASS |
| I013+I014+I015 | ND | mg/kg | PASS |
| I016+I017+I018 | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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RESULTS:

PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILD CARE ARTICLES (Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108(a) and 108(c), 16 CFR 1307)

Test Method : With reference to U. S. CPSC-CH-C1001-09.4 (January 17, 2018)

| Test Parameter: | BBP | DBP | DEHP | DINP | DIBP | DPENP | DHEXP | DCHP | - |
|-----------------|------------|-----|------|------|------|-------|-------|------|------------|
| Limit (%): | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | - |
| Test Item(s) | Result (%) | | | | | | | | Conclusion |
| I001+I002+I003 | ND | ND | ND | ND | ND | ND | ND | ND | PASS |
| I004+I005+I006 | ND | ND | ND | ND | ND | ND | ND | ND | PASS |
| I007+I008+I009 | ND | ND | ND | ND | ND | ND | ND | ND | PASS |
| I010+I011+I012 | ND | ND | ND | ND | ND | ND | ND | ND | PASS |
| I013+I014+I015 | ND | ND | ND | ND | ND | ND | ND | ND | PASS |
| I016+I017+I018 | ND | ND | ND | ND | ND | ND | ND | ND | PASS |

Note / key:

DEHP = Di(2-ethylhexyl) phthalate

DHEXP(DnHP) = Di-n-hexyl phthalate

DPENP(DnPP) = Di-n-pentyl phthalate

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

DBP = Dibutyl phthalate

DIBP = Di-iso-butyl phthalate

DCHP = Dicyclohexyl phthalate

% = percent

BBP = Butyl benzyl phthalate

DINP = Di-iso-nonyl phthalate

10000 mg/kg = 1 %



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RESULTS:

Total Lead Content in Children Products (California Proposition 65 settlements of Alameda Superior court RG 07356892)

Test Method : EPA 3050B (Mod) / EPA 3051A (Mod)

| | | |
|--------------------------|---------|--------------------------------------|
| Maximum Allowable Limit: | Type I | Paint and surface coatings: 90 mg/kg |
| | Type II | Substrate materials: 100 mg/kg |

| Test Item(s) | Type | Result | Unit | Conclusion |
|----------------|------|-----------------|-------|------------|
| | | Total Lead (Pb) | | |
| I001+I002+I003 | I | ND | mg/kg | PASS |
| I004+I005+I006 | I | ND | mg/kg | PASS |
| I007+I008+I009 | II | ND | mg/kg | PASS |
| I010+I011+I012 | II | ND | mg/kg | PASS |
| I013+I014+I015 | II | ND | mg/kg | PASS |
| I016+I017+I018 | II | ND | mg/kg | PASS |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



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RESULTS:

BBP/DBP/DEHP/DnHP/DIDP Phthalates Content Requirements in Toys, Child Care Articles and Watches – California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050

Test Method : With reference to U. S. CPSC-CH-C1001-09.4 (January 17, 2018)

| Test Parameter: | BBP | DBP | DEHP | DnHP | DIDP | - |
|-----------------|------------|-----|------|------|------|------------|
| Limit (%): | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | - |
| Test Item(s) | Result (%) | | | | | Conclusion |
| I001+I002+I003 | ND | ND | ND | ND | ND | PASS |
| I004+I005+I006 | ND | ND | ND | ND | ND | PASS |
| I007+I008+I009 | ND | ND | ND | ND | ND | PASS |
| I010+I011+I012 | ND | ND | ND | ND | ND | PASS |
| I013+I014+I015 | ND | ND | ND | ND | ND | PASS |
| I016+I017+I018 | ND | ND | ND | ND | ND | PASS |

Note / key:

BBP = Butyl benzyl phthalate

DnHP = Di-n-hexyl phthalate

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

DBP = Dibutyl phthalate

DIDP = Di-iso-decyl phthalate

% = percent

DEHP = Di(2-ethylhexyl) phthalate

10000 mg/kg = 1 %

RESULTS:



END OF REPORT