



CONSUMER PRODUCTS SERVICES DIVISION

CARPENTERS MANUFACTORY LIMITED

Technical Report: (8519)311-0551(Revision)

April 28, 2020

Date Received: November 07, 2019

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CARPENTERS MANUFACTORY LIMITED
HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE
VILLAGE, QI SHI TOWN, DONG GUAN CITY, GUANG
DONG PROVINCE, P.R.CHINA

Sample Description: A.) RECTANGULAR TABLETOP
B.) SQUARE TABLETOP
C.) 1800L RECTANGULAR TABLETOP
D.) 515H TABLE LEGS 4 PIECE
E.) 365H TABLE LEGS 4 PIECE
F.) 220H BEECH WOOD CHAIR
G.) 300H BEECH WOOD CHAIR
H.) 480H MOVABLE TODDLER MULTI-ACTIVITY TABLE
I.) 650H MOVABLE MULTI-ACTIVITY TABLE

Vendor: CARPENTERS MANUFACTORY LIMITED Sample Size: 16

Manufacturer: N/A Style No(s): ME04239, ME04246,
ME10162, ME05533,
ME05540, ME10438,
ME10445, ME13941,
ME14795

Buyer: N/A SKN/SKU No.: N/A
Labeled Age Grade: 3 YEARS + PO No.: N/A
Appropriate Age Grade: NOT REQUESTED Ref #: N/A
Client Specified Age: NOT SPECIFIED Country of Origin: CHINA
Grade:
Tested Age Grade: OVER 3 YEARS OF AGE Assortment No.: N/A
UPC Code: 6955920004239, 6955920004246, Country of Destination: GLOBAL
6955920010162, 6955920005533,
6955920005540, N/A,
6955920013941, 6955920014795

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).
- Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".
- The migration of certain elements requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 3: 2012 with Amendment No. 1: 2016.
- The labeling requirements of the tested subclauses of the Australian/New Zealand Standard, "Safety of toys", AS/NZS ISO 8124: Part 1: 2019.



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EXECUTIVE SUMMARY:

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

- The flammability requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 2: 2016.
- The labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The 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).
- The 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).
- The applicable heavy metals content requirements for surface coatings of the Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 Sec. 23 with Amendment in SOR/2016-195.
- The total lead content requirements of the Canada Consumer Product Safety Act, Consumer Products Containing Lead Regulations SOR/2018-83.
- The 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).
- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- 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.
- The cellulose nitrate requirements of Canada Toys Regulations, SOR/2011-17, section 21.
- The diisobutyl phthalate (DIBP) content requirement in toys of the European Council Directive 2009/48/EC (and its amendments), Annex II, Part III, Point 3.
- The BBP, DBP and DEHP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51.
- The cadmium content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 23 (amended up to EU No. 2016/217).
- The DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52.



EXECUTIVE SUMMARY:

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

- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-7.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+ A1: 2014.
- The formaldehyde release requirement in accessible resin-bonded wood components of the European Standard, "Safety of Toys: Organic Chemical Compounds - Requirement", EN 71: Part 9: 2005, and Amendment A1: 2007, when tested according to the method BS EN 717-3.
- The migration of certain elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A3:2018.
- The migration of certain elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2019.
- The 17 phthalates content requirements of the client's specifications.

The style# A-F, H-I sample(s) MEET the following requirement(s):

- The mechanical and physical properties requirements of the tested subclauses of the Australian/New Zealand Standard, "Safety of toys", AS/NZS ISO 8124: Part 1: 2019.
- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".

The style# A-E, H-I sample(s) MEET the following requirement(s):

- The mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 and Schedule 2.

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17, 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 manufacturer / importer information was present on the packaging only. It has to be noted that, according to TSD 2009/48/EC, the manufacturers/ importer shall indicate their name, registered trade name or registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.

Note: The product identifications is present on the packaging only. It has to be noted that, according to TSD 2009/48/EC, manufacturers shall ensure their toys bear a type, batch, serial or model number or other element allowing their identification, or, where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

Note: The sample(s) submitted do not fall within the scope of CPSIA Total lead in children metal jewelry(100ppm), EC Directive 2009/48/EC Formamide thus the corresponding testing has/have not been conducted.



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(*)EXECUTIVE SUMMARY:

- Note: According to the associated documents of Consumer Product Safety Improvement Act (CPSIA) of 2008, exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / electronics devices components / ordinary books / dyed & undyed textiles. Therefore, the lead content analysis of some components was not conducted.
- Note: Exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / dyed & undyed textiles. Therefore, the lead content analysis of some components was not conducted.
- Note: Based on visual evaluation and/or material breakdown received, there is no polyvinyl chloride (PVC) found in the samples submitted and thus the corresponding testing of the Canada Consumer Product Safety Act, Phthalates Regulations, SOR/2016-188 regarding to the restriction of use of certain phthalates content have not been conducted.
- Note: Based on visual evaluation and/or material breakdown received, there is no applicable material(s) found in the sample(s) submitted and thus the corresponding testing of EC No. 1907/2006 Azodyes content (2017) has/have not been conducted.
- Note: This report is amendment of and supersedes the previous (8519)311-0551 dated January 07, 2020.**

BUREAU VERITAS SHENZHEN CO., LTD.

Hon Yin Kan
Manager
Toys And Juvenile Products Department

HK/ su



RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

| | |
|---|---|
| The Appropriate Age Grade is determined with reference to the EN71: Part 1 : 2014 +A1:2018, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age Determination Guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC). | |
| 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. |

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

| Symbol | Explanation | | | | |
|--------|---|--------|--------------------|--------|---------------------|
| NM | The sample(s) DOES NOT MEET the requirement of this Subclause | | | | |
| M | The sample(s) MEET the requirement of this Subclause | | | | |
| N/A | Not Applicable | | | | |
| NR | Not Requested | | | | |
| NE | Not Evaluated | | | | |
| NT | Not Tested | | | | |
| NP | None Present | | | | |
| P | Present | | | | |
| R | Refer to Comment Section of this report | | | | |
| Symbol | Language Present | Symbol | Language Present | Symbol | Language Present |
| B | Belgian language | G | German language | PR | Portuguese language |
| D | Danish language | GR | Greek language | S | Spanish language |
| E | English language | H | Dutch language | SD | Swedish language |
| SF | Finnish language | I | Italian language | SZ | Swiss language |
| FR | French language | N | Norwegian language | | |

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1 – 2018)**

| Subclause | Requirement | Result |
|---|--|--------|
| 4.1 | Material cleanliness | M |
| 4.2 | Assembly | M |
| 4.3 | Flexible plastic sheeting | NA |
| 4.4 | Toy Bags | NA |
| 4.5 | Glass | NA |
| 4.6 | Expanding materials | NA |
| 4.7 & 7.6 | Edges | M |
| 4.8 & 7.6 | Points and metallic wires | M |
| 4.8e | Splinters | M |
| 4.9 | Protruding parts | NA |
| 4.10.1 | Folding and sliding mechanisms | NA |
| 4.10.2 | Driving mechanisms | NA |
| 4.10.3 | Hinges | NA |
| 4.10.4 | Springs | NA |
| 4.11 | Mouth actuated toys and other toys intended to be put in the mouth | NA |
| 4.12 & 7.3 | Balloons | NA |
| 4.13 & 7.9 | Cord of toy kites and other flying toys | NA |
| 4.14.1 | Toys which a child can enter | NA |
| 4.14.2 & 7.8 | Masks and helmets | NA |
| 4.15.1 | Toys propelled by child | |
| 4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16 | Toys propelled by child – Instructions for use | NA |
| 4.15.1.3 | Toys propelled by child – Strength | NA |
| 4.15.1.4 | Toys propelled by child – Stability | NA |
| 4.15.1.5 | Toys propelled by child – Braking | NA |
| 4.15.1.6 | Toys propelled by child - Transmission | NA |
| 4.15.1.7 | Toys propelled by child – insertion mark | NA |
| 4.15.1.8 | Electrically-driven ride-on toys | NA |
| 4.15.2 | Toy bicycles | |
| 4.15.2.2 & 7.15 | Toy bicycles – Warnings and instructions for use | NA |
| 4.15.2.3 | Toy bicycles – Braking | NA |
| 4.15.3 & 7.16 & 7.19 | Rocking horses and similar toys | NA |
| 4.15.4 & 7.16 | Toys not propelled by child | M |
| 4.15.5 & 7.18 | Toy scooters | NA |
| 4.16 | Heavy immobile toys | M |
| 4.17.2 | All projectiles | NA |
| 4.17.3 & 7.7 | Projectile toys with stored energy | NA |
| 4.17.4 & 7.26 | Certain projectiles toys without stored energy | NA |

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1 – 2018)**

| Subclause | Requirement | Result |
|---|---|--------|
| 4.18 & 7.4 | Aquatic toys and inflatable toys | NA |
| 4.19 & 7.13 & 7.14 | Percussion caps | NA |
| 4.20.2.1- 4.20.2.8, 4.20.2.10, 4.20.2.12 | Acoustics | NA |
| 4.20.2.9, 4.20.2.11 & 7.14 | Acoustics – percussion toys & cap-firing toys | NA |
| 4.21 | Toys containing a non-electrical heat source | NA |
| 4.22 & 7.2 | Small balls | NA |
| 4.23 | Magnet | |
| 4.23.2 a, b & c | Toy other than magnetic / electrical experimental sets intended for children over 8 years | NA |
| 4.23.3 & 7.20 | Magnetic / electrical experimental sets intended for children over 8 years | NA |
| 4.24 | Yo-yo ball | NA |
| 4.25 | Toys attached to food | NA |
| 4.26 | Toy Disguise Costumes | NA |
| 4.27.1 | Flying toys – General | NA |
| 4.27.2 & 7.25.1 | Rotors and propellers on flying toys | NA |
| 4.27.3 & 7.25.2 | Rotors and propellers on remote controlled flying toys | NA |
| FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS | | |
| 5.1 | General | NA |
| 5.1a | Small parts – as received | NA |
| 5.1b | Small parts, sharp points, sharp edges – after tests | NA |
| 5.1c | Cross section <2mm metal points & wires | NA |
| 5.1e | Toys contain glue | NA |
| 5.1f | Casing of toys | NA |
| 5.2 | Fillings, coverings and seams | NA |
| 5.3 | Adhesion of plastic sheeting | NA |
| 5.4.2 | Cords and chains in toys intended for children under 18 months | NA |
| 5.4.3 & 7.22 | Cords and chains in toys intended for children of 18 months or over but under 36 months | NA |
| 5.4.4 | Fixed loops, tangled loops and nooses | NA |
| 5.4.5 | Cords and chains on pull along toys | NA |
| 5.4.6 & 7.21 | Electrical cables | NA |
| 5.4.7 | Cross-sectional dimension of certain cords | NA |
| 5.4.8 | Self-retracting cords | NA |
| 5.4.9 & 7.11 & 7.23 | Toys attached to or intended to be strung across a cradle, cot or perambulator | NA |
| 5.5 & 7.12 | Liquid filled toys | NA |
| 5.6 | Electrically driven toys | NA |



RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
 (EN 71: PART 1 – 2014+A1 – 2018)**

| Subclause | Requirement | Result |
|---------------------------------------|---|--------|
| 5.7 | Glass and porcelain | NA |
| 5.8 | Shape and size | NA |
| 5.9 & 7.17 | Monofilament fibres | NA |
| 5.10 | Small balls | NA |
| 5.11 | Play figures | NA |
| 5.12 | Hemispheric shaped toys | NA |
| 5.13 | Suction cups | NA |
| 5.14 | Straps intended to be worn fully or partially around the neck | NA |
| 5.15 & 7.24 | Sledges with cords for pulling | NA |
| 6 | Packaging | M |
| WARNINGS, INSTRUCTIONS FOR USE | | |
| 7.1 | General | M |
| 7.2 | Toys not intended for children under 36 months | M |
| 7.5 | Functional toys | NA |

2009/48/EC GENERAL LABELING REQUIREMENT

| Requirement | Result |
|---|--------|
| CE Mark | M |
| Manufacturer/ Importer name and address | M |
| Product Identification | M |

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



RESULTS:

FLAMMABILITY (EN 71 PART 2: 2011 + A1: 2014)

| Subclause | Requirement | Result |
|-----------|---|--------|
| 4.1 | Cellulose nitrate | NP |
| 4.1 | Surface flash on a piled surface | NA |
| 4.1 | Flammable gases | NA |
| 4.1 | Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels | NA |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by child in play | NA |
| 4.3 | warning on product and packaging (10 - 30 mm/s) | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.4 | warning on product and packaging (10 – 30 mm/s) | NA |
| 4.5 | Soft-filled toys | NA |

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

| Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method |
|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| 4.2.2 | 5.2 | 4.2.4 | 5.3 | 4.3 | 5.4 | 4.5 | 5.5 |
| 4.2.3 | 5.3 | 4.2.5 | 5.4 | 4.4 | 5.4 | - | - |



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 for 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) |
| Tip Over Test | 3 times | 1500.53(b)(4)(i) |
| 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 F963-17)

| 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 | M |
| 4.12 | Plastic 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 | M |
| 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



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 | M |
| 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) | N/A |
| 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 | M |
| 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 | Ignited but Self-Extinguished. |



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is recommended with reference to the Toys: Age Classification Guidelines (1998-01-13) of the Product Safety Bureau, Health Canada.

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.



(*)RESULTS:

CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS, SOR/2011-17

| Section | Parameter / Requirement | Result |
|--|---|-----------|
| Mechanical Hazards | | |
| 4 | Flexible film bag used for package | NA |
| 7 | Small Toys and Detachable component | NA |
| 8 | Metal edge | M |
| 9 | Wires frames | M |
| 10 | Plastic Edges | M |
| 11 | Wood | M |
| 12 | Glass | NA |
| 13 | Nails and fasteners | M |
| 14 | Safety stops/Locking Device for Folding product | NA |
| 15 (a, b) | Moving Mechanism | NA |
| 15 (c) | Non- Detachable Winding Key Clearance | NA |
| 15 (d) | Detachable Key | NA |
| 16 | Projectile Toy | NA |
| 17 | Enclosures | NA |
| 18 | Stability | NA |
| 19 | Auditory hazards | NA |
| Specific Products - Dolls, Plush Toys and Soft Toys | | |
| 28 | Exposed Sharp Points and Edges | NA |
| 29. (a) | Stuffing Materials shall be clean and free from vermin | NA |
| 29. (b) | Stuffing Materials shall be free from hard and sharp foreign matter | NA |
| 30 | Squeaker, Reed and Valve | NA |
| 31 | Eyes and Nose | NA |
| Specific Products | | |
| 35*36* | Plant seeds | NA |
| 37 | Pull and Push toys | NA |
| 38* | Toys Steam engine Boilers | NA |
| 39* | Finger Paints | NA |
| 40(a) | Rattles – Sharp wire | NA |
| 40(b, c) | Rattles – Impaction | NA |
| 41 | Elastic | NA |
| 42 | Yo-Yo type balls | NA |
| 43 | Magnetic force | NA |
| 44 | Educational experimental kit - Labeling | NA |



(*)RESULTS:

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

| Section | Parameter / Requirement | Result |
|---------------------------|---------------------------------|--------|
| Mechanical Hazards | | |
| 1* | Jequirity Beans | M |
| 8* | Kites | NA |
| 9 | Kite strings | NA |
| 14* | Lawn, darts with elongated tips | NA |

*M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section * = Non-accredited section*

**FLAMMABILITY OF CELLULOSE NITRATE
 TOY REGULATIONS SOR/2011-17 SECTION 21**

| Requirement Reference | Observation | Flammability Classification |
|-----------------------|-----------------|-----------------------------|
| Section 21 | No Flash Effect | M |

M = Meet NM-See comment = Not Meet - Refer to Comment Section NA = Not Applicable



RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age-grading guidelines of the Annex A of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 1: 2019

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.



(*)RESULTS:

MECHANICAL & PHYSICAL PROPERTIES – (AS/NZS ISO 8124.1:2019)

| Subclause | Requirement | Result |
|-------------|---|-----------|
| 4.1 | Normal use | M |
| 4.2 | Reasonably foreseeable abuse | M |
| 4.3 | Material | M |
| 4.4 | Small parts | NA |
| 4.5 | Shape, size and strength of certain toys | NA |
| 4.6 | Edges | M |
| 4.7 | Points | M |
| 4.8 | Projections | NA |
| 4.9 | Metal wires and rods | NA |
| 4.10 | Plastic film or plastic bags in packaging and in toys | M |
| 4.11 | Cords | NA |
| 4.12 | Folding mechanisms | NA |
| 4.13 | Holes, clearances and accessibility of mechanisms | NA |
| 4.14 | Springs | NA |
| 4.15 | Stability and overload requirements | NA |
| 4.16 | Enclosures | NA |
| 4.17 | Simulated protective equipment | NA |
| 4.18 | Projectile toys | NA |
| 4.19 | Rotors and propellers | NA |
| 4.20 | Aquatic toys | NA |
| 4.21 | Braking | NA |
| 4.22 | Toy bicycles | NA |
| 4.23 | Speed limitation of electrically driven ride-on toys | NA |
| 4.24 | Toys containing a heat source | NA |
| 4.25 | Liquid-filled toys | NA |
| 4.26 | Mouth-actuated toys | NA |
| 4.27 | Toy roller skates, toy inline skates and toy skateboards | NA |
| 4.28 | Percussion caps specifically designed for use in toys | NA |
| 4.29 | Acoustic requirement | NA |
| 4.30 | Toy scooters | NA |
| 4.31 | Magnets and magnetic components | NA |
| 4.32 | Yo-yo balls | NA |
| 4.33 | Straps intended to be worn fully or partially around the neck | NA |
| 4.34 | Sledges and toboggans with cords for pulling | NA |
| 4.35 | Jaw entrapment in handles and steering wheels | NA |

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



RESULTS:

FLAMMABILITY (AS/NZS 8124.2: 2016)

| Subclause | Requirement | Result |
|-----------|---|--------|
| 4.1 | Celluloid (cellulose nitrate) | NP |
| 4.1 | Surface flash on a piled surface | NA |
| 4.1 | Flammable Gases | NA |
| 4.1 | Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels | NA |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play | NA |
| 4.3 | warning on product and packaging (10 - 30 mm/s) | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.4 | warning on product and packaging (10 - 30 mm/s) | NA |
| 4.5 | Soft - filled toys | NA |

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



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)

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

| Element: | | | | Lead | | |
|---------------------------------------|--------------------|----------------------------|---------|----------------|-----------|------------|
| Requirement: Maximum allowable limit: | | | | 90 mg/kg | | |
| Sample Description | | | | Result (mg/kg) | | Conclusion |
| Color / Component | | Location | Style | Overall | Potential | |
| (A) | Bright red coating | Bright red paint (A1Y) | A-C,H-I | LT 10 | - | Pass |
| (B) | Dark green coating | Dark green paint (A5Y) | A-C,H-I | LT 10 | - | Pass |
| (C) | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I | LT 10 | - | Pass |
| (D) | Black coating | Black paint (A19Y) | A-C | LT 10 | - | Pass |
| (E) | Clear lacquer | Clear lacquer paint (A21Y) | A-I | LT 10 | - | Pass |

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



RESULTS:

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

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

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

| Analyte | | | | Lead (Pb) | Conclusion |
|--------------------|---------------------------------------|-----------------------|---------|----------------|------------|
| Sample Description | | | | Result (mg/kg) | |
| | Color / Component | Location | Style | | |
| (A) | Light grey plastic | Wheels | H,I | LT 10 | Pass |
| | Matt light grey plastic | Tire | H,I | | |
| | Red plastic | Brake | H,I | | |
| (B) | Silvery metal | Metal plate on corner | A-C | LT 10 | Pass |
| (C) | Silvery metal | Screw on metal plate | A-C | LT 10 | Pass |
| (D) | Silvery metal | Screw on wooden board | A-C | LT 10 | Pass |
| (E) | Silvery metal | Screw on chair | F,G | LT 10 | Pass |
| (F) | Silvery metal | Screw on wooden board | H,I | LT 10 | Pass |
| (G) | Silvery metal | Metal plate of wheels | H,I | LT 10 | Pass |
| (H) | Silvery metal | Hexagonal bolt (A) | A-C,H-I | LT 10 | Pass |
| (I) | Silvery metal | Screw (B) | H-I | LT 10 | Pass |
| (J) | Silvery metal | Screw (C) | H-I | LT 10 | Pass |
| (K) | Bright light flesh /bright flesh wood | Wooden board | A-C,F-I | LT 10 | Pass |

LT = Less Than

* = Average of duplicate analyses

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



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

| Sample Identity | Color | Location | Style |
|-----------------|--------------------|----------------------------|---------|
| A. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| B. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| C. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| D. | Black coating | Black paint (A19Y) | A-C |
| E. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |

| 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 | 0.0856 | Pass |
| B. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0666 | Pass |
| C. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0580 | Pass |
| D. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0894 | Pass |
| E. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0806 | Pass |

LT = Less Than

CR = adjusted analytical result

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

* = Average of duplicate analysis

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium



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))

| Sample Identity | Color | Location | Style |
|--|---------------------------------------|--------------|---------|
| Type I: Substrate other than modeling clay | | | |
| A | Light grey plastic | Wheels | H,I |
| B | Matt light grey plastic | Tire | H,I |
| C | Red plastic | Brake | H,I |
| D | Bright light flesh /bright flesh wood | Wooden board | A-C,F-I |

| 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 |
|---------|----------------|------|------|------|------|------|------|------|----------------------|------------|
| Sample | Result (mg/kg) | | | | | | | | (g) | |
| A | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | Pass |
| B | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | Pass |
| C | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | Pass |
| D | LT 2 | 10 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | Pass |

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

CR = adjusted analytical result

LT = Less Than

ND = None Detected

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

Detection limit (mg/kg): Each element 2

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.



RESULTS:

HEAVY METALS CONTENT IN SURFACE COATING (Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 Sec. 23 with Amendment in SOR/2016-195)

| Sample Identity | Color | Location | Style |
|-----------------|--------------------|----------------------------|---------|
| (A) | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| (B) | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| (C) | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| (D) | Black coating | Black paint (A19Y) | A-C |
| (E) | Clear lacquer | Clear lacquer paint (A21Y) | A-I |

| Analyte | | As | Ba | Cd | Hg | Pb | Sb | Se |
|-----------------------|-----|------|------|------|----|----|------|------|
| Maximum Limit (mg/kg) | (T) | - | - | - | ND | 90 | - | - |
| | (S) | 1000 | 1000 | 1000 | - | - | 1000 | 1000 |

| Analyte | | As | Ba | Cd | Hg | Pb | Sb | Se | |
|---------|--------|----------------|-------|-------|----|-------|-------|-------|------------|
| | Method | Result (mg/kg) | | | | | | | Conclusion |
| (A) | (T) | LT 10 | LT 10 | LT 10 | ND | LT 10 | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | |
| (B) | (T) | LT 10 | LT 10 | LT 10 | ND | LT 10 | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | |
| (C) | (T) | LT 10 | LT 10 | LT 10 | ND | LT 10 | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | |
| (D) | (T) | LT 10 | 22 | LT 10 | ND | LT 10 | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | |
| (E) | (T) | LT 10 | 12 | LT 10 | ND | LT 10 | LT 10 | LT 10 | PASS |
| | (S) | - | - | - | - | - | - | - | |

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

*= Average of duplicate analysis

ND = Not detected (Detection Limit = 10 mg/kg)

(T) = Total Analysis (With referenced to ASTM F963-17 Sec. 8.3)

(S) = Soluble analysis (Canada Product Safety Manual Book 5, Part-B, C-03 (2014))

LT = Less Than

As = Arsenic, Ba = Barium, Cd = Cadmium,

Hg = Mercury, Pb = Lead, Sb = Antimony,

Se = Selenium



RESULTS:

TOTAL LEAD CONTENT (Canada Consumer Product Safety Act – Consumer Products Containing Lead Regulations SOR/2018-83)

Test Method: Health Canada, Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures – Part B: Test Method Section, Method C-02.2:2017, C-02.3:2017 or C-02.4:2017

| | | |
|---------------------------------------|----------|--|
| Analyte | Lead | |
| Requirement: Maximum allowable limit: | 90 mg/kg | |

| Analyte | | | | Lead (Pb) | Conclusion |
|---|----------------------------|---------|--|-----------|------------|
| Sample Description | | | | Result | |
| Color / Component | Location | Style | | (mg/kg) | |
| (A) Light grey plastic | Wheels | H,I | | LT 10 | PASS |
| Matt light grey plastic | Tire | H,I | | | |
| Red plastic | Brake | H,I | | | |
| (B) Silvery metal | Metal plate on corner | A-C | | LT 10 | PASS |
| (C) Silvery metal | Screw on metal plate | A-C | | LT 10 | PASS |
| (D) Silvery metal | Screw on wooden board | A-C | | LT 10 | PASS |
| (E) Silvery metal | Screw on chair | F,G | | LT 10 | PASS |
| (F) Silvery metal | Screw on wooden board | H,I | | LT 10 | PASS |
| (G) Silvery metal | Metal plate of wheels | H,I | | LT 10 | PASS |
| (H) Silvery metal | Hexagonal bolt (A) | A-C,H-I | | LT 10 | PASS |
| (I) Silvery metal | Screw (B) | H-I | | LT 10 | PASS |
| (J) Silvery metal | Screw (C) | H-I | | LT 10 | PASS |
| (K) Bright red coating | Bright red paint (A1Y) | A-C,H-I | | LT 10 | PASS |
| (L) Dark green coating | Dark green paint (A5Y) | A-C,H-I | | LT 10 | PASS |
| (M) Dark blue coating | Dark blue paint (A7Y) | A-C,H-I | | LT 10 | PASS |
| (N) Black coating | Black paint (A19Y) | A-C | | LT 10 | PASS |
| (O) Clear lacquer | Clear lacquer paint (A21Y) | A-I | | LT 10 | PASS |
| (P) Bright light flesh /bright flesh wood | Wooden board | A-C,F-I | | LT 10 | PASS |

LT = Less Than

* = Average of duplicate analyses

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

ND=Not detected



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method : European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

| Sample Identity | Color | Location | Style |
|-----------------|---------------------------------------|----------------------------|---------|
| A. | Light grey plastic | Wheels | H,I |
| B. | Matt light grey plastic | Tire | H,I |
| C. | Red plastic | Brake | H,I |
| D. | Bright light flesh /bright flesh wood | Wooden board | A-C,F-I |
| E. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| F. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| G. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| H. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |
| I. | Light brown wood | Wooden board | D-I |
| J. | Black coating | Black paint (A19Y) | A-C |



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method : European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

| Analyte | Requirement (mg/kg) | Result (mg/kg) | | | | | |
|-----------------------------|------------------------|----------------|----------|----------|----------|---------|--------------|
| | | Sample ID | | | | | |
| | Category III | A. | B. | C. | D. | E. | F. |
| Aluminium (Al) | 70000 | 2 | LT 2 | LT 2 | 4 | LT 2 | LT 2 |
| Arsenic (As) | 47 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Boron (B) | 15000 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Barium (Ba) | 18750 | LT 2 | LT 2 | LT 2 | 4 | LT 2 | LT 2 |
| Cadmium (Cd) | 17 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Cobalt (Co) | 130 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Chromium III (Cr III) | 460 | LT 0.050 | LT 0.050 | LT 0.050 | LT 0.050 | LT 0.05 | 0.23 |
| Chromium VI (Cr VI) | 0.2 | | | | | | #LT 0.002 |
| Copper (Cu) | 7700 | 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Mercury (Hg) | 94 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Manganese (Mn) | 15000 | LT 2 | LT 2 | LT 2 | 35 | LT 2 | LT 2 |
| Nickel (Ni) | 930 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Lead (Pb) | 23 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Antimony (Sb) | 560 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Selenium (Se) | 460 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Tin (Sn) | 180000 | 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Organic tin | 12 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Strontium (Sr) | 56000 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Zinc (Zn) | 46000 | 6 | LT 2 | LT 2 | 26 | 53 | 110 |
| Mass of trace amount (gram) | | - | - | - | - | 0.0856 | 0.0666 |
| Conclusion | | Pass | Pass | Pass | Pass | Pass | Pass |



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method : European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

| Analyte | Requirement (mg/kg) | Result (mg/kg) | | | | | |
|-----------------------------|------------------------|----------------|---------|---------|----------|---|---|
| | | Sample ID | | | | | |
| | Category III | G. | H. | I. | J. | - | - |
| Aluminium (Al) | 70000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Arsenic (As) | 47 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Boron (B) | 15000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Barium (Ba) | 18750 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Cadmium (Cd) | 17 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Cobalt (Co) | 130 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Chromium III (Cr III) | 460 | LT 0.05 | LT 0.05 | LT 0.05 | LT 0.050 | - | - |
| Chromium VI (Cr VI) | 0.2 | | | | | | |
| Copper (Cu) | 7700 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Mercury (Hg) | 94 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Manganese (Mn) | 15000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Nickel (Ni) | 930 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Lead (Pb) | 23 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Antimony (Sb) | 560 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Selenium (Se) | 460 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Tin (Sn) | 180000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Organic tin | 12 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Strontium (Sr) | 56000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Zinc (Zn) | 46000 | 97 | 77 | LT 2 | 290 | - | - |
| Mass of trace amount (gram) | | 0.0580 | 0.0806 | - | 0.0894 | - | - |
| Conclusion | | Pass | Pass | Pass | Pass | - | - |



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RESULTS:

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

LT = Less Than

** = Average of duplicate analysis*

FR = Failed Result

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

= Verified results (see note)

Remark: - Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note: If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis

- Organic tin: EN71 part 3:2013+A3:2018, Annex G by Gas Chromatography – Mass Spectroscopy analysis.



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method : European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

| Sample Identity | Color | Location | Style |
|-----------------|---------------------------------------|----------------------------|---------|
| A. | Light grey plastic | Wheels | H,I |
| B. | Matt light grey plastic | Tire | H,I |
| C. | Red plastic | Brake | H,I |
| D. | Bright light flesh /bright flesh wood | Wooden board | A-C,F-I |
| E. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| F. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| G. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| H. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |
| I. | Light brown wood | Wooden board | D-I |
| J. | Black coating | Black paint (A19Y) | A-C |



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method : European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

| Analyte | Requirement (mg/kg) | Result (mg/kg) | | | | | |
|-----------------------------|------------------------|----------------|----------|----------|----------|---------|--------------|
| | | Sample ID | | | | | |
| | Category III | A. | B. | C. | D. | E. | F. |
| Aluminium (Al) | 70000 | 2 | LT 2 | LT 2 | 4 | LT 2 | LT 2 |
| Arsenic (As) | 47 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Boron (B) | 15000 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Barium (Ba) | 18750 | LT 2 | LT 2 | LT 2 | 4 | LT 2 | LT 2 |
| Cadmium (Cd) | 17 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Cobalt (Co) | 130 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Chromium III (Cr III) | 460 | LT 0.050 | LT 0.050 | LT 0.050 | LT 0.050 | LT 0.05 | 0.23 |
| Chromium VI (Cr VI) | 0.053 | | | | | | #LT 0.002 |
| Copper (Cu) | 7700 | 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Mercury (Hg) | 94 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Manganese (Mn) | 15000 | LT 2 | LT 2 | LT 2 | 35 | LT 2 | LT 2 |
| Nickel (Ni) | 930 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Lead (Pb) | 23 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Antimony (Sb) | 560 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Selenium (Se) | 460 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Tin (Sn) | 180000 | 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Organic tin | 12 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Strontium (Sr) | 56000 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 |
| Zinc (Zn) | 46000 | 6 | LT 2 | LT 2 | 26 | 53 | 110 |
| Mass of trace amount (gram) | | - | - | - | - | 0.0856 | 0.0666 |
| Conclusion | | Pass | Pass | Pass | Pass | Pass | Pass |



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method : European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

| Analyte | Requirement (mg/kg) | Result (mg/kg) | | | | | |
|-----------------------------|------------------------|----------------|---------|---------|----------|---|---|
| | | Sample ID | | | | | |
| | Category III | G. | H. | I. | J. | - | - |
| Aluminium (Al) | 70000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Arsenic (As) | 47 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Boron (B) | 15000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Barium (Ba) | 18750 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Cadmium (Cd) | 17 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Cobalt (Co) | 130 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Chromium III (Cr III) | 460 | LT 0.05 | LT 0.05 | LT 0.05 | LT 0.050 | - | - |
| Chromium VI (Cr VI) | 0.053 | | | | | | |
| Copper (Cu) | 7700 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Mercury (Hg) | 94 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Manganese (Mn) | 15000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Nickel (Ni) | 930 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Lead (Pb) | 23 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Antimony (Sb) | 560 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Selenium (Se) | 460 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Tin (Sn) | 180000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Organic tin | 12 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Strontium (Sr) | 56000 | LT 2 | LT 2 | LT 2 | LT 2 | - | - |
| Zinc (Zn) | 46000 | 97 | 77 | LT 2 | 290 | - | - |
| Mass of trace amount (gram) | | 0.0580 | 0.0806 | - | 0.0894 | - | - |
| Conclusion | | Pass | Pass | Pass | Pass | - | - |



CARPENTERS MANUFACTORY LIMITED
Technical Report: **(8519)311-0551(Revision)**

April 28, 2020

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RESULTS:

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

LT = Less Than

** = Average of duplicate analysis*

FR = Failed Result

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

= Verified results (see note)

Remark: - Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note: If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis

- Organic tin: EN71 part 3:2019, Annex G by Gas Chromatography – Mass Spectroscopy analysis.



RESULTS:

CADMIUM CONTENT (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 23)

| Category: | | | | Plastics | | | |
|--------------------------|----------|-------|----------------|-----------------------------|-----------|---------|------------|
| Element: | | | | Cadmium | | | |
| Test Method | | | | BS EN 1122: 2001, Method B | | | |
| Maximum Allowable Limit: | | | | 100 mg/kg (0.01% by weight) | | | |
| Sample Description | | | | Reading 1 | Reading 2 | Average | Conclusion |
| Color / Component | Location | Style | Result (mg/kg) | | | | |
| (A) Light grey plastic | Wheels | H,I | LT 10 | LT 10 | LT 10 | | Pass |
| Matt light grey plastic | Tire | H,I | | | | | |
| Red plastic | Brake | H,I | | | | | |

LT = Less than

= Insufficient sample for duplicate analyses

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

Operator: Zhang Shao Zheng, Ryan

| Category: | | | | Paints on Painted Article | |
|--------------------------|----------------------------|---------|-------|-----------------------------|------------|
| Element: | | | | Cadmium | |
| Test Method: | | | | In house acid digestion | |
| Maximum Allowable Limit: | | | | 1000 mg/kg (0.1% by weight) | |
| Test Component | | | | Result (mg/kg) | Conclusion |
| Colour/Component | Location | Style | | | |
| (A) Bright red coating | Bright red paint (A1Y) | A-C,H-I | LT 10 | | Pass |
| (B) Dark green coating | Dark green paint (A5Y) | A-C,H-I | LT 10 | | Pass |
| (C) Dark blue coating | Dark blue paint (A7Y) | A-C,H-I | LT 10 | | Pass |
| (D) Black coating | Black paint (A19Y) | A-C | LT 10 | | Pass |
| (E) Clear lacquer | Clear lacquer paint (A21Y) | A-I | LT 10 | | Pass |

LT = Less than

* = Average of duplicate analyses

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



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (AS/NZS 8124 Part 3: 2012 with Amendment No. 1: 2016)

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

| Sample Identity | Color / Component | Location | Style |
|---|---------------------------------------|----------------------------|---------|
| Type II: Polymeric Materials | | | |
| A. | Light grey plastic | Wheels | H,I |
| B. | Matt light grey plastic | Tire | H,I |
| C. | Red plastic | Brake | H,I |
| Type I: Coatings | | | |
| D. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| E. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| F. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| G. | Black coating | Black paint (A19Y) | A-C |
| H. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |
| Type VI: Other Materials Whether Mass Coloured Or Not | | | |
| I. | Light brown wood | Wooden board | D-I |
| J. | Bright light flesh /bright flesh wood | Wooden board | A-C,F-I |



RESULTS:

MIGRATION OF CERTAIN ELEMENTS (AS/NZS 8124 Part 3: 2012 with Amendment No. 1: 2016)

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

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | |
|--|-----|------|-----|-----|-----|-----|-----|-----|--|
| Max. Limit All except Type VIII (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 | |
| Max. Limit Type VIII (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 |
|---------|----------------|------|------|------|------|------|------|------|----------------------------|------------|
| Sample | Result (mg/kg) | | | | | | | | (g) | |
| A. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | PASS |
| B. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | PASS |
| C. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | PASS |
| D. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0856 | PASS |
| E. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0666 | PASS |
| F. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0580 | PASS |
| G. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0894 | PASS |
| H. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | 0.0806 | PASS |
| I. | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | PASS |
| J. | LT 2 | 10 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | LT 2 | | PASS |

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

CR = adjusted analytical result

LT = Less Than

* = Average of duplicate analysis

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium



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-C1001-09.3 (April 1, 2010) / CPSC-CH-C1001-09.4 (January 17, 2018).

| Sample Identity | Color / Component | Location | Style |
|-----------------|--|----------------------------|-------------------|
| A. | Light grey plastic Matt light grey plastic Red plastic | Wheels Tire Brake | H,I H,I H,I |
| B. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| C. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| D. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| E. | Black coating | Black paint (A19Y) | A-C |
| F. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |

| Test Parameter: | Listed Phthalates (See Remark) | | |
|-----------------|--------------------------------|-------------------|------------|
| Requirement: | Each 0.1% | | |
| Sample ID | Detected Analyte | Concentration (%) | Conclusion |
| A. | ND | ND | Pass |
| B. | ND | ND | Pass |
| C. | ND | ND | Pass |
| D. | ND | ND | Pass |
| E. | ND | ND | Pass |
| F. | ND | ND | Pass |

Results reported in percentage
ND = None detected
Detection Limit: Each Phthalate (0.005%)

| LIST OF RESTRICTED PHthalATES | | |
|-------------------------------|---------------------------------------|-------------------------|
| Number | Chemical Name | CAS Number |
| 1. | Butyl benzyl phthalate (BBP) | 85-68-7 |
| 2. | Dibutyl phthalate (DBP) | 84-74-2 |
| 3. | Di(2-ethylhexyl) phthalate (DEHP) | 117-81-7 |
| 4. | Di-iso-nonyl phthalate (DINP) | 28553-12-0 & 68515-48-0 |
| 5. | Di-iso-butyl phthalate (DIBP) | 84-69-5 |
| 6. | Di-n-pentyl phthalate (DPENP or DnPP) | 131-18-0 |
| 7. | Di-n-hexyl phthalate (DHEXP or DnHP) | 84-75-3 |
| 8. | Dicyclohexyl phthalate (DCHP) | 84-61-7 |



RESULTS:

BBP/DBP/DEHP CONTENTS IN TOYS AND CHILDCARE ARTICLES (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51)

Test Method: With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

| Sample Identity | Test Component | Location | Style |
|-----------------|--|----------------------------|-------------------|
| A. | Light grey plastic Matt light grey plastic Red plastic | Wheels Tire Brake | H,I H,I H,I |
| B. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| C. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| D. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| E. | Black coating | Black paint (A19Y) | A-C |
| F. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |

| Test Parameter: | BBP | DBP | DEHP | Sum of three phthalates | |
|-----------------|------------|----------|----------|-------------------------|------------|
| Limit (%): | 0.1 | 0.1 | 0.1 | 0.1 | |
| Sample | Result (%) | | | | Conclusion |
| A. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| B. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| C. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| D. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| E. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| F. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |

Detection Limit :

BBP = Butyl benzyl phthalate (0.005%)
 DBP = Dibutyl phthalate (0.005%)
 DEHP = Di(2-ethylhexyl) phthalate (0.005%)

Results reported in percentage

LT = Less than
 ND = None detected



RESULTS:

DNOP/DINP/DIDP CONTENTS IN TOYS AND CHILDCARE ARTICLES WHICH CAN BE PLACED IN MOUTH BY THE CHILDREN (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52)

Test Method: With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

| Sample Identity | Test Component | Location | Style |
|-----------------|--|----------------------------|-------------------|
| A. | Light grey plastic Matt light grey plastic Red plastic | Wheels Tire Brake | H,I H,I H,I |
| B. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| C. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| D. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| E. | Black coating | Black paint (A19Y) | A-C |
| F. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |

| Test Parameter: | DNOP | DINP | DIDP | Sum of three phthalates | |
|-----------------|------------|----------|----------|-------------------------|------------|
| Limit (%): | 0.1 | 0.1 | 0.1 | 0.1 | |
| Sample | Result (%) | | | | Conclusion |
| A. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| B. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| C. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| D. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| E. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |
| F. | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.015 | Pass |

Detection Limit :

DNOP = Di-n-octyl phthalate (0.005%)
 DINP = Di-iso-nonyl phthalate (0.005%)
 DIDP = Di-iso-decyl phthalate (0.005%)

Results reported in percentage

LT = Less than
 ND = None detected



RESULTS:

DIBP CONTENT IN TOYS (2009/48/EC and its amendments, Annex II, Part III, Point 3)

| Test Parameter: | | | | DIBP | |
|-----------------|--|----------------------------|-------------------|------------|------------|
| Limit (%): | | | | 0.3 | |
| | Color / Component | Location | Style | Result (%) | Conclusion |
| A. | Light grey plastic Matt light grey plastic Red plastic | Wheels Tire Brake | H,I H,I H,I | LT 0.005 | Pass |
| B. | Bright red coating | Bright red paint (A1Y) | A-C,H-I | LT 0.005 | Pass |
| C. | Dark green coating | Dark green paint (A5Y) | A-C,H-I | LT 0.005 | Pass |
| D. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I | LT 0.005 | Pass |
| E. | Black coating | Black paint (A19Y) | A-C | LT 0.005 | Pass |
| F. | Clear lacquer | Clear lacquer paint (A21Y) | A-I | LT 0.005 | Pass |

Remark:

DIBP (CAS No: 84-69-5) = Diisobutyl phthalate

Results reported in percentage

ND = None detected

Detection Limit: Each Phthalate (0.005%)



RESULTS:

CLIENT'S 17 PHTHALATES CONTENT SPECIFICATION

• **BBP/DBP/DEHP/DNOP/DINP/DIDP Content**

| Color / Component | | Location | Style |
|-------------------|--|----------------------------|-------------------|
| Composite of | | | |
| A. | Light grey plastic Matt light grey plastic Red plastic | Wheels Tire Brake | H,I H,I H,I |
| B. | Bright red coating | Bright red paint (A1Y) | A-C,H-I |
| C. | Dark green coating | Dark green paint (A5Y) | A-C,H-I |
| D. | Dark blue coating | Dark blue paint (A7Y) | A-C,H-I |
| E. | Black coating | Black paint (A19Y) | A-C |
| F. | Clear lacquer | Clear lacquer paint (A21Y) | A-I |

| Test Parameter | BBP | DBP | DEHP | DNOP | DINP | DIDP | |
|----------------|------------|----------|----------|----------|----------|----------|------------|
| Limit (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Sample | Result (%) | | | | | | Conclusion |
| A | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| B | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| C | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| D | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| E | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| F | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |

Detection Limit :

DNOP = Di-n-octyl phthalate (0.005%) 117-84-0
DINP = Di-nonyl phthalate (0.005%) 117-81-7
DIDP = Di-iso-decyl phthalate (0.005%) 26761-40-0 / 68515-49-1
BBP = Butyl benzyl phthalate (0.005%) 85-68-7
DBP = Dibutyl phthalate (0.005%) 84-74-2
DEHP = Di(2-ethylhexyl) phthalate (0.005%) 117-81-7

Results reported in percentage

LT = Less than
ND = None detected



RESULTS:

CLIENT'S 17 PHTHALATES CONTENT SPECIFICATION

- **EC No. 201-559-5 / DiBP / DHNUP / DIHP / DMEP / DIPP / DnPP / DPP / PiPP / DHP / 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear Content**

| Test Parameter | EC No. 201-559-5 | DiBP | DHNUP | DIHP | DMEP | DIPP | |
|----------------|------------------|----------|----------|----------|----------|----------|------------|
| Limit (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Sample | | | | | | | Conclusion |
| A | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| B | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| C | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| D | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| E | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| F | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |

| Test Parameter | DnPP | DPP | PiPP | DHP | 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear | |
|----------------|----------|----------|----------|----------|--|------------|
| Limit (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | |
| Sample | | | | | | Conclusion |
| A | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| B | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| C | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| D | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| E | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |
| F | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | LT 0.005 | Pass |



RESULTS:

Results reported in percentage

LT = Less than

ND = None detected

Detection Limit:

DiBP = Diisobutylphthalate 84-69-5

DHNUP = 1,2-Benzenedicarboxylic acid, di-C7, 11-
branched and linear alkyl esters 68515-42-4

DIHP = 1,2-Benzenedicarboxylic acid, di-C6-8-branched
alkyl esters, C7-rich 71888-89-6

DMEP = Dimethoxyethyl phthalate 117-82-8

DIPP = Diisopentylphthalate 605-50-5

DnPP = Dipentylphthalate 131-18-0

DPP = 1,2-benzenedicarboxylic acid dipentylester,
branched and linear 84777-06-0

PiPP = n-Pentyl-Isopentylphthalate 776297-69-9

DHP = Dihexylphthalate 84-75-3

1,2-Benzenedicarboxylic acid, dihexyl ester, branched and
linear 68515-50-4

EC No. 201-559-5 = 1,2-benzenedicarboxylic acid, di-C6-
10-alkyl esters; 1,2-benzenedicarboxylic
acid, mixed decyl and hexyl and octyl
diesters with $\geq 0.3\%$ of dihexyl phthalate
68515-51-5 / 68648-93-1



RESULTS:

**FORMALDEHYDE RELEASE IN ACCESSIBLE RESIN-BONDED WOOD COMPONENTS
(EN 71: Part 9: 2005 and Amendment A1: 2007)**

Test Method: BS EN 717 Part 3, Wood-based panels - Determination of formaldehyde release - Part 3:
Formaldehyde release by the flask method.

| Parameter: | | | | Formaldehyde Release | |
|--------------------------|--|--------------|-----------|----------------------------|---------------|
| Maximum allowable limit: | | | | 80 (mg/kg (ppm)) | |
| Test Component | | | | Moisture Content (%) | Conclusion |
| | Color/Component | Location | Style No. | | |
| A. | Bright light flesh /bright flesh wood | Wooden board | A-C,F-I | | LT 16 Pass |

LT = Less than

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

RESULTS:



(*)RESULTS:



END OF REPORT