



TEST REPORT NO : 1002064357

October 6, 2023

Page : 1 of 52

Applicant : MAKEDO
Address : 4 Paterson Street, Abbotsford VIC 3067

Test Date : September 15 – October 4, 2023
Received Date: September 11, 15 & October 4, 2023

Contact Person : Shelley Pai

Sample Description:
A0050 Explore 050
A0126 Discover 126
A0360 Invent 360
A0036 Starter 036
A0160 Scru Combo 160
B0180 Scru 180
C0120 Scru+ 120
D0001 Scru-Driver 001
F0012 Mini-Tool 012
G0001 Safe-Saw 001
H0001 Fold Roller 001

Export To: USA, EU, UK, Australia, Canada, Israel

Sample Received:
1) Each style x 5 sets
2) 10 ml wet paint for each coating
3) Sticker x 1 pack
4) Labeling Artwork x 1 set

Testing Age Over 3 years

Grading:
Country of Origin: China

Manufacturer:

For and on behalf of
UL VS Hong Kong Limited

Kenneth Ho - Testing Manager
Hardlines & Toys

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



TEST REPORT NO : 1002064357

October 6, 2023

Page : 2 of 52

Test Item	Conclusion
ASTM F963-17 Physical and Mechanical Tests per Standard Consumer Safety Specification for Toy Safety	PASS
16 CFR 1501, 16 CFR 1500.19, 16 CFR 1500.48 and 49 Physical and Mechanical Tests	PASS
Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements	PASS
EN 71-1:2014+A1:2018 Mechanical and Physical Properties	PASS
BS EN 71-1:2014+A1:2018 Mechanical and Physical Properties	PASS
AS/NZS ISO 8124.1:2023 Safety of toys – Part 1: Safety aspects related to mechanical and physical properties	PASS
Flammability Test for Solids and Soft Toys [ASTM F963-17 Section 4.2 and Annex A5 per 16CFR1500.3(c)(6)(vi) and 16CFR1500.44]	PASS
Canada Toys Regulations SOR/2011-17 Flammability Test	PASS
EN 71-2:2020 “Safety of toys – Part 2: Flammability”	PASS
BS EN 71-2:2020 “Safety of toys – Part 2: Flammability”	PASS
AS/NZS 8124.2:2016 Flammability Requirements	PASS
Labeling requirement for specific section according to Toys (Safety) Regulations 2011: Guidance (GB) -Section 5.6 & Layout per Section 10	PASS
Total Lead Content in Paints and Surface Coatings [16 CFR 1303]	PASS
Total Lead Content in Paints and Surface Coatings [ASTM F963-17 Section 4.3.5.1 (1)]	PASS
Total Lead Content in Paints and Surface Coatings [Consumer Product Safety Improvement Act of 2008]	PASS
Total Lead Content in Paints and Surface Coatings [CA Prop. 65 Settlement]	PASS
Total Lead Content In Paints And Surface Coatings [Illinois Lead Poisoning Prevention Act]	PASS
Total Lead Content in Substrate [ASTM F963-17 Section 4.3.5.2 (2)(a)]	PASS
Total Lead Content in Substrates [Consumer Product Safety Improvement Act of 2008]	PASS
Total Lead Content in Substrate [CA Prop. 65 Settlement]	PASS
Total Lead Content [Consumer Products Containing Lead Regulations(SOR/2018-83) amending SOR/2010-273]	PASS
Total Lead Content [Lead Risk Reduction Guidelines, Health Canada]	PASS
Total Lead Content [Canada Regulation SOR/2022-122 amending the Surface Coating Materials Regulations SOR/2016-193]	PASS
Total Mercury Content [Canada Regulation SOR/2022-122 amending the Surface Coating Materials Regulations SOR/2016-193]	PASS
Total Cadmium Content [REACH Annex XVII]	PASS
Organotin Compounds [Restriction of organotin compounds according to Regulation (EC) No. 1907/2006 on REACH Annex XVII Entry 20 as amended by commission Regulation (EC) No. 276/2010]	PASS
Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [94/62/EC]	PASS
Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [NERC Model legislation- Toxics in Packaging Clearhouse (TPCH)]	PASS
Specific Substances in Stickers, Films and Surface Coatings [Canada Regulations SOR/2022-122 amending Consumer Product Safety Act, Toys Regulations (SOR/2011-17), Toxicological Hazards, Section 23]	PASS
Migration of Certain Elements [AS/NZS 8124-3:2012 + A1:2016]	PASS
Soluble Migrated Elements [ASTM F963-17 Section 4.3.5.1 (2), 4.3.5.2 (2b) & 8.3.2 – 8.3.5]	PASS
Migration of Certain Elements [EN 71-3:2019+A1:2021]	PASS
Polycyclic Aromatic Hydrocarbon (PAH) [REACH Annex XVII Entry 50 as amended by Commission Regulation (EU) No. 1272/2013]	PASS
Total Phthalates Content [REACH Annex XVII Entry 51 & 52 amending by (EU) 2018/2005]	PASS

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited (“UL VS”)

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 3 of 52

Total Phthalates Content [The U.S. Public Law 110 - 314, Consumer Product Safety Improvement Act of 2008, Title I, Section 108(a) & 16 CFR part 1307 & California Proposition 65]	PASS
Total Phthalates Content [Canada Phthalates Regulations (SOR/2016-188)]	PASS
DEHP Content Test [Australia Permanent Ban On DEHP In Children's Products, Consumer Protection Notice No. 11 of 2011, Competition and Consumer Act 2010, Commonwealth of Australia]	PASS
Chemicals of High Concern to Children (CHCC) – WASHINGTON STATE CHILDREN SAFE PRODUCT ACT	PASS
Substances of Very High Concern Screening Test (SVHC) -235 SVHCs	PASS
Migration of Certain Elements [BS EN 71-3:2019+A1:2021]	PASS
Remark: <ol style="list-style-type: none">1. The results relate only to the samples tested.2. "NC"=No Comment, "NA"=Not Applicable, " * " See the attached test results details.	

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



Test Result:

Labeled Age Grading	Appropriate Age Grading	Declared Age Grading	Tested Age Grading
4+ & 5+	Over 3 years	Over 3 years	Over 3 years

(01) ASTM F963-17 Physical and Mechanical Tests per Standard Consumer Safety Specification for Toy Safety

Clause	Test Items	Result
4	<u>SAFETY REQUIREMENTS</u>	Pass
4.1	Material Quality	Pass
4.3.7	Stuffing Materials	Not Applicable
4.4	Electrical/Thermal Energy	Not Applicable
4.5	Sound-Producing Toys	Not Applicable
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Not Applicable
4.9	Accessible Points	Pass
4.10	Wires and Rods	Not Applicable
4.11	Nails and Fasteners	Not Applicable
4.12	Plastic Film	Not Applicable
4.13	Folding Mechanisms and Hinges	Not Applicable
4.14	Cords, Straps, and Elastics	Not Applicable
4.15	Stability and Over-Load Requirements	Not Applicable
4.16	Confined Spaces	Not Applicable
4.17	Wheels, Tires, and Axles	Not Applicable
4.18	Holes, Clearance, and Accessibility of Mechanisms	Pass
4.19	Simulated Protective Devices	Not Applicable
4.20.2	Pacifiers – Physical and Mechanical Requirement	Not Applicable
4.21	Projectile Toys	Not Applicable
4.22	Teethers and Teething Toys	Not Applicable
4.23	Rattles	Not Applicable
4.24	Squeeze Toys	Not Applicable
4.25	Battery-Operated Toys	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



TEST REPORT NO : 1002064357

October 6, 2023

Page : 5 of 52

4.25.10	Battery-Powered Ride-on toys	Not Applicable
4.25.11	Toys that Contain Secondary Cells or Secondary Batteries	Not Applicable
4.26	Toys Intended to be Attached to a Crib or Playpen	Not Applicable
4.27	Stuffed and Beanbag-Type Toys	Not Applicable
4.28	Stroller and Carriage Toys	Not Applicable
4.29	Art Materials	Not Applicable
4.30	Toy Gun Marking	Not Applicable
4.31	Balloons	Not Applicable
4.32	Certain Toys with Nearly Spherical Ends	Not Applicable
4.33	Marbles	Not Applicable
4.34	Balls	Not Applicable
4.35	Pompoms	Not Applicable
4.36	Hemispheric-Shaped Objects	Not Applicable
4.37	Yo Yo Elastic Tether Toys	Not Applicable
4.38	Magnets	Not Applicable
4.39	Jaw Entrapment in Handles and Steering Wheels	Not Applicable
4.40	Expanding materials	Not Applicable
4.41	Toy Chests	Not Applicable
5	LABELING REQUIREMENTS	Pass
5.3	Safety Labeling Requirements	Not Applicable
5.4	Aquatic Toys	Not Applicable
5.5	Crib and Playpen Toys	Not Applicable
5.6	Mobiles	Not Applicable
5.7	Stroller and Carriage Toys	Not Applicable
5.8	Toys Intended to be Assembled by an Adult	Not Applicable
5.9	Simulated Protective Devices	Not Applicable
5.10	Toys with Functional Sharp Edges or Points	Not Applicable
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pass
5.12	Toy Caps	Not Applicable
5.13	Art Materials	Not Applicable
5.14	Electric Toys	Not Applicable
5.15	Battery – Operated Toys	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



TEST REPORT NO : 1002064357

October 6, 2023

Page : 6 of 52

5.15.1	Battery – Powered Ride - on Toys	Not Applicable
5.15.2	Button or Coin Cell Batteries	Not Applicable
5.16	Promotional Materials	Pass
5.17	Magnets	Not Applicable
6	INSTRUCTIONAL LITERATURE	Pass
6.1	Definition and Description	Pass
6.2	Crib and Playpen Toys	Not Applicable
6.3	Mobiles	Not Applicable
6.4	Toys Intended to be Assembled By an Adult	Not Applicable
6.5	Battery-Operated Toys	Not Applicable
6.6	Battery Powered Ride-on Toys	Not Applicable
6.7	Toys in Contact with Food	Not Applicable
6.8	Toy Chests	Not Applicable
7	PRODUCER'S MARKINGS	Pass
7.1	Producer's Name and Address	Pass
7.2	Battery-Powered Ride-On Toys	Not Applicable
7.3	Toy Chests	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(02) 16 CFR 1501, 16 CFR 1500.19, 16 CFR 1500.48 and 49 Physical and Mechanical Tests

Test Parameters for Abuse Tests			
Test	ASTM F963-17	FHSA	Parameters
Drop Test	8.7.1	16 CFR 1500.53(b)	4 x 3 feet
Torque Test	8.8	16 CFR 1500.53(e)	4 in-lbf
Tension Test	8.9	16 CFR 1500.53(f)	15 lbf
Compression	8.10	16 CFR 1500.53(g)	---
Flexure	8.12	16 CFR 1500.53(d)	---

Test Items	Result
16 CFR 1501 Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts.	Not Applicable
16 CFR 1500.49 Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age	Pass
16 CFR 1500.48 Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age	Pass
16CFR1500.19 Misbranded toys and other articles intended for use by children	Not Applicable
16 CFR1500.19(a)(8)(b)(1) Small part warning intended for children at least 3 years old but less than 6 years of age.	Pass
16 CFR1500.19(a)(8)(b)(2) Balloon warning intended for latex balloon or any toy or game that contains a latex balloon.	Not Applicable
16 CFR1500.19(a)(8)(b)(3) Small ball warning intended for children 3 years of age or older	Not Applicable
16 CFR1500.19(a)(8)(b)(4) Marble Warning Intended for children 3 years of age or older	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(03) Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements

The following clauses are identified to be applicable:

Applicant Specified age Grading for testing: Over 3 years
Sample size: 1 set(s) × 11 style(s)

<u>Clause</u>	<u>Test Item (Test Method)</u>	<u>Assessment</u>
3	Official languages	Pass
4	Flexible film bags (M03*)	Pass ¹
8	Metal edges (M00.2*)	Pass
10	Plastic edges (M00.2*, M00.3*, M01.1*)	Pass

*Remarks:

- M00.1 Method M00.1 Small components (2019-07-02)
- M00.2 Method M00.2 Sharp edges (2020-12-07)
- M00.3 Method M00.3 Sharp points (2021-01-15)
- M00.4 Method M00.4 Eye / Nose Security – Dolls, Plush Toys and Soft Toys (2020-05-06)
- M01.1 Method M01.1 Reasonably foreseeable use - toys (2019-02-18)
- M03 Test method for flexible film bags (2022-03-16)
- M04 Test method to determine the noise level of the toys (2022-07-04)
- M05 Test method for rattles (2021-04-27)
- M18 Test method for magnetic toys (2021-02-04)

Details

- 1. The opening was less than 356mm in circumference.

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(04) PHYSICAL AND MECHANICAL TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:

A) EN 71-1:2014+A1:2018

Applicant Specified Age Grading for testing: Over 3 years
Sample size: 1 set(s) × 11 style(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material cleanliness	Pass
4.2	Assembly	Not Applicable
4.3	Flexible plastic sheeting	Not Applicable
4.4	Toy bags	Not Applicable
4.5	Glass	Not Applicable
4.6	Expanding materials	Not Applicable
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	Not Applicable
4.10	Parts moving against each other	Not Applicable
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	Not Applicable
4.12	Balloons	Not Applicable
4.13	Cords of toys kites and other flying toys	Not Applicable
4.14	Enclosures	Not Applicable
4.15	Toys intended to bear the mass of a child	Not Applicable
4.16	Heavy immobile toys	Not Applicable
4.17	Projectile toys	Not Applicable
4.18	Aquatic toys and inflatable toys	Not Applicable
4.19	Percussion caps specifically designed for use in toys and toy using percussion caps	Not Applicable
4.20	Acoustics	Not Applicable
4.21	Toys containing a non-electrical heat source	Not Applicable
4.22	Small balls	Not Applicable
4.23	Magnets	Not Applicable
4.24	Yo-yo balls	Not Applicable
4.25	Toys attached to food	Not Applicable
4.26	Toy Disguise Costumes	Not Applicable
4.27	Flying toys	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



TEST REPORT NO : 1002064357

October 6, 2023

Page : 10 of 52

5.1	General Requirements – Toys intended for children under 36 months	Not Applicable
5.2	Soft-filled toys and soft-filled parts of a toy	Not Applicable
5.3	Plastic sheeting	Not Applicable
5.4	Cords, chains and electrical cables in toys	Not Applicable
5.5	Liquid-filled toys	Not Applicable
5.6	Speed limitation of electrically driven ride-on toys	Not Applicable
5.7	Glass and porcelain	Not Applicable
5.8	Shape and size of certain toys	Not Applicable
5.9	Toys comprising monofilament fibers	Not Applicable
5.10	Small balls	Not Applicable
5.11	Play figures	Not Applicable
5.12	Hemispheric-shaped toys	Not Applicable
5.13	Suction cups	Not Applicable
5.14	Straps intended to be worn fully or partially around the neck	Not Applicable
5.15	Sledges with cords for pulling	Not Applicable
6	Packaging	Not Applicable
7.1	General – Warnings, markings and instructions for use	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	Not Applicable
7.4	Aquatic toys	Not Applicable
7.5	Functional toys	Not Applicable
7.6	Hazardous sharp functional edges and points	Not Applicable
7.7	Projectile toys	Not Applicable
7.8	Imitation protective masks and helmets	Not Applicable
7.9	Toy kites	Not Applicable
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	Not Applicable
7.11	Toys intended to be strung across a cradle, cot, or perambulator	Not Applicable
7.12	Liquid-filled teethingers	Not Applicable
7.13	Percussion caps specifically designed for use in toys	Not Applicable
7.14	Acoustics	Not Applicable
7.15	Toy bicycles	Not Applicable
7.16	Toys intended to bear the mass of a child	Not Applicable
7.17	Toys comprising monofilament fibres	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

		Page :	11 of 52
7.18	Toy scooters		Not Applicable
7.19	Rocking horses and similar toys		Not Applicable
7.20	Magnetic/electrical experimental sets		Not Applicable
7.21	Toys with electrical cables exceeding 300 mm in length		Not Applicable
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months		Not Applicable
7.23	Toys intended to be attached to a cradle, cot or perambulator		Not Applicable
7.24	Sledges with cords for pulling		Not Applicable
7.25	Flying toys		Not Applicable
7.26	Improvised projectiles		Not Applicable

Remarks:

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(05) PHYSICAL AND MECHANICAL TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:

A) BS EN 71-1:2014+A1:2018

Applicant Specified Age Grading for testing: Over 3 years
Sample size: 1 set(s) × 11 style(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material cleanliness	Pass
4.2	Assembly	Not Applicable
4.3	Flexible plastic sheeting	Not Applicable
4.4	Toy bags	Not Applicable
4.5	Glass	Not Applicable
4.6	Expanding materials	Not Applicable
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	Not Applicable
4.10	Parts moving against each other	Not Applicable
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	Not Applicable
4.12	Balloons	Not Applicable
4.13	Cords of toys kites and other flying toys	Not Applicable
4.14	Enclosures	Not Applicable
4.15	Toys intended to bear the mass of a child	Not Applicable
4.16	Heavy immobile toys	Not Applicable
4.17	Projectile toys	Not Applicable
4.18	Aquatic toys and inflatable toys	Not Applicable
4.19	Percussion caps specifically designed for use in toys and toy using percussion caps	Not Applicable
4.20	Acoustics	Not Applicable
4.21	Toys containing a non-electrical heat source	Not Applicable
4.22	Small balls	Not Applicable
4.23	Magnets	Not Applicable
4.24	Yo-yo balls	Not Applicable
4.25	Toys attached to food	Not Applicable
4.26	Toy Disguise Costumes	Not Applicable
4.27	Flying toys	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



TEST REPORT NO : 1002064357

October 6, 2023

Page : 13 of 52

5.1	General Requirements – Toys intended for children under 36 months	Not Applicable
5.2	Soft-filled toys and soft-filled parts of a toy	Not Applicable
5.3	Plastic sheeting	Not Applicable
5.4	Cords, chains and electrical cables in toys	Not Applicable
5.5	Liquid-filled toys	Not Applicable
5.6	Speed limitation of electrically driven ride-on toys	Not Applicable
5.7	Glass and porcelain	Not Applicable
5.8	Shape and size of certain toys	Not Applicable
5.9	Toys comprising monofilament fibers	Not Applicable
5.10	Small balls	Not Applicable
5.11	Play figures	Not Applicable
5.12	Hemispheric-shaped toys	Not Applicable
5.13	Suction cups	Not Applicable
5.14	Straps intended to be worn fully or partially around the neck	Not Applicable
5.15	Sledges with cords for pulling	Not Applicable
6	Packaging	Not Applicable
7.1	General – Warnings, markings and instructions for use	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	Not Applicable
7.4	Aquatic toys	Not Applicable
7.5	Functional toys	Not Applicable
7.6	Hazardous sharp functional edges and points	Not Applicable
7.7	Projectile toys	Not Applicable
7.8	Imitation protective masks and helmets	Not Applicable
7.9	Toy kites	Not Applicable
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	Not Applicable
7.11	Toys intended to be strung across a cradle, cot, or perambulator	Not Applicable
7.12	Liquid-filled teethingers	Not Applicable
7.13	Percussion caps specifically designed for use in toys	Not Applicable
7.14	Acoustics	Not Applicable
7.15	Toy bicycles	Not Applicable
7.16	Toys intended to bear the mass of a child	Not Applicable
7.17	Toys comprising monofilament fibres	Not Applicable

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 14 of 52

7.18	Toy scooters	Not Applicable
7.19	Rocking horses and similar toys	Not Applicable
7.20	Magnetic/electrical experimental sets	Not Applicable
7.21	Toys with electrical cables exceeding 300 mm in length	Not Applicable
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	Not Applicable
7.23	Toys intended to be attached to a cradle, cot or perambulator	Not Applicable
7.24	Sledges with cords for pulling	Not Applicable
7.25	Flying toys	Not Applicable
7.26	Improvised projectiles	Not Applicable

(06) Physical And Mechanical Tests Of The Most Stringent Requirements Of The Following Standards:

A) AS/NZS ISO 8124.1:2023

The following clauses are identified to be applicable:

Applicant Specified Age Grading for testing: Over 3 years

Clause	Test Items	Assessment
4.1	General	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	Pass
4.4	Small parts	Pass
4.6	Edges	Pass
4.7	Points	Pass
4.13	Holes, clearances and accessibility of mechanisms	Pass
Annex B	Safety-labelling guidelines and manufacturer's markings	Pass

(07) Flammability Test for Solids and Soft Toys [ASTM F963-17 Section 4.2 and Annex A5 per 16CFR1500.3(c)(6)(vi) and 16CFR1500.44]

Test Items	Result
Flammability Test for Solids and Soft Toys [ASTM F963-17 Section 4.2 and Annex A5 per 16CFR1500.3(c)(6)(vi) and 16CFR1500.44]	Pass

(08) Flammability Test (Cellulose Nitrate) To Canada Toys Regulations SOR/2011-17

Clause	Test Item	Assessment
21	Celluloid or cellulose nitrate	Pass

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(09) FLAMMABILITY PROPERTIES (EN 71-2:2020)

<u>SUBCLAUSE</u>	<u>REQUIREMENT</u>	<u>RESULT</u>
4	REQUIREMENTS	P
4.1	General requirements	P
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
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

<u>REMARK</u>	<u>EXPLANATION</u>
1.	The result applies to the sample as received and tested
2.	Sample status : As received
3.	Packaging / Instructions : Actual packaging
4.	Period of Testing : 19 Sep 2023 to 20 Sep 2023

(10) FLAMMABILITY PROPERTIES (BS EN 71-2:2020)

<u>SUBCLAUSE</u>	<u>REQUIREMENT</u>	<u>RESULT</u>
4	REQUIREMENTS	P
4.1	General requirements	P
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
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

<u>REMARK</u>	<u>EXPLANATION</u>
1.	The result applies to the sample as received and tested
2.	Sample status : As received
3.	Packaging / Instructions : Actual packaging
4.	Period of Testing : 19 Sep 2023 to 20 Sep 2023


This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



- (11) **Flammability Test To AS/NZS 8124.2:2016 Clause 4.1 General Requirements (Cellulose Nitrate)**
 Requirement : Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behavior in fire as celluloid shall not be used in the manufacture of toys.
 Result: The submitted sample(s) complied with this requirement.

- (12) **Labeling requirement for specific section according to Toys (Safety) Regulations 2011: Guidance (GB) - Section 5.6 & Layout per Section 10**

TEST DESCRIPTION		RESULT	RATING
Section 5 .Obligations of manufacturers (Section 5.6)	Identifying the toy (e.g. type/ batch/ serial/ model number)	Present on Toy/Packaging	PASS
	Manufacturer (e.g. name, registered trade name / trademark, contact address)	Present on Toy/Packaging	PASS
Section 10. UKCA Marking Form & Size verification	The UK marking consists of the initials "UKCA" taking the following form— 	Present	PASS
	Where the UK marking is reduced or enlarged, the proportions given in the graduated drawing in above must be respected. (In proportion to the version)	In proportion	PASS
	UKCA marking is at least 5mm in height (unless a different minimum dimension is specified in the relevant legislation)	Measured value 9 mm (Toy/Package)	PASS
	UKCA marking is easily visible, legible (From 1 January 2023 it must be permanently attached)	Comply	PASS

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



TEST REPORT NO : 1002064357

October 6, 2023

Page : 17 of 52

Sample Information :

Sample	Product
001	A0050 Explore 050 A0126 Discover 126 A0360 Invent 360 A0036 Starter 036 A0160 Scru Combo 160 B0180 Scru 180 C0120 Scru+ 120 D0001 Scru-Driver 001 F0012 Mini-Tool 012 G0001 Safe-Saw 001 H0001 Fold Roller 001
002	Grey coating (words on handle of all hand tools)
003	Deep pink coating (on metal safe-saw)
004	Pink coating (on metal fold-roller)
005	Yellow plastic (handle of all hand tools, pins)
006	Blue plastic (pin on handle of all hand tools, screws)
007	Grey plastic (head of all hand tools)
008	Silvery metal (safe saw)
009	Silvery metal (fold-roller)
010	Brown carton with white printing (tray, Explore/ Discover)
011	Clear lamiante (tray sleeve, Explore/ Discover)
012	Multicolor paper with clear lamiante (tray sleeve, Explore/ Discover)
013	White plastic adhesive with multicolor prining (sticker of all hand tools)
014	Multicolor carton with clear lamiante (box, Invent)
015	Multicolor paper (instruction, Invent)
016	Multicolor paper adhesive (stickers on polybag, Explore/ Discover)
017	Multicolor sticker sheet (on paper box, Invent)
018	Brown paper with white printing (paper box, Invent)
019	Brown paper adhesive (adhesive tape on hand tools, Invent/ Explore/ Discover)
020	Clear plastic adhesive (round adhesive tape, Invent/ Explore/ Discover)
021	Clear plastic (polybag, Explore/ Discover)
022	Yellow plastic with grey coating (handle of all hand tools)
023	Silvery metal with deep pink coating (safe saw)
024	Silvery metal with pink coating (fold-roller)
025	6+7+10+11+12+22+28+29
026	13+14+15+16+17+18+19+20+21
027	23+24
028	Multicolor paper adhesive (red/ yellow/ blue screw logo stickers)
029	White paper (screw logo stickers backing)

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(13) Total Lead Content in Paints and Surface Coatings [16 CFR 1303]

Test Method : CPSC-CH-E1003-09.1 (Paints and Surface Coatings)

The submitted sample(s) must not exceed the total lead limit of 90 milligrams per kilogram for paints or surface coatings as stated in 16 CFR 1303.

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
002	<10.0	Max. 90	PASS
003	<10.0	Max. 90	PASS
004	<10.0	Max. 90	PASS
“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram			

(14) Total Lead Content in Paints and Surface Coatings [ASTM F963-17 Section 4.3.5.1 (1)]

Test Method : CPSC-CH-E1003-09.1 (Paints and Surface Coatings)

The submitted sample(s) must not exceed the total lead limit of 90 milligrams per kilogram for paints or surface coatings as stated in ASTM F963-16+17 Section 4.3.5.1 (1)

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
002	<10.0	Max. 90	PASS
003	<10.0	Max. 90	PASS
004	<10.0	Max. 90	PASS
“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram			

(15) Total Lead Content in Paints and Surface Coatings [Consumer Product Safety Improvement Act of 2008]

Test Method : CPSC-CH-E1003-09.1 (Paints and Surface Coatings)

The submitted sample(s) must not exceed the total lead limit of 90 milligrams per kilogram for paints or surface coatings as stated in the U.S. Public Law 110 - 314, Consumer Product Safety Improvement Act of 2008, Title I, Section 101(f).

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
002	<10.0	Max. 90	PASS
003	<10.0	Max. 90	PASS
004	<10.0	Max. 90	PASS
“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram			

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited (“UL VS”)

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(16) Total Lead Content in Paints and Surface Coatings [CA Prop. 65 Settlement]

Test Method : CPSC-CH-E1003-09.1 (Paints and Surface Coatings)

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
002	<10.0	Max. 90	PASS
003	<10.0	Max. 90	PASS
004	<10.0	Max. 90	PASS

“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram

(17) Total Lead Content In Paints And Surface Coatings [Illinois Lead Poisoning Prevention Act]

Test Method : CPSC-CH-E1003-09.1, CPSC-CH-E1001-08.3 & CPSC-CH-E1002-08.3 Section I and II A

Criteria : The submitted sample(s) must not exceed the Total Lead Limit of 40 milligrams per kilogram as per Illinois Public Act 097-0612 (SB1943): The Lead Poisoning Prevention Act. (Amended 2011)

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
002	<10.0	Max. 40	PASS
003	<10.0	Max. 40	PASS
004	<10.0	Max. 40	PASS

“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram

(18) Total Lead Content in Substrate [ASTM F963-17 Section 4.3.5.2 (2)(a)]

Test Method : CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

The submitted sample(s) must not exceed the total lead limit of 100 milligrams per kilogram for substrate as stated in ASTM F963-16+17 Section 4.3.5.2 (2)(a)

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
005+006+007	<10.0	Max. 100	PASS
008+009	18.8	Max. 100	PASS
011	<10.0	Max. 100	PASS

“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited (“UL VS”)

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



TEST REPORT NO : 1002064357

October 6, 2023

Page : 20 of 52

(19) Total Lead Content in Substrates [Consumer Product Safety Improvement Act of 2008]

Test Method : CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

The submitted sample(s) must not exceed the total lead limit of 100 milligrams per kilogram for substrate materials as stated in the U.S. Public Law 110 - 314, Consumer Product Safety Improvement Act of 2008, Title I, Section 101(a)(2)

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
005+006+007	<10.0	Max. 100	PASS
008+009	18.8	Max. 100	PASS
011	<10.0	Max. 100	PASS
“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram			

(20) Total Lead Content in Substrate [CA Prop. 65 Settlement]

Test Method : CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
005+006+007	<10.0	Max. 100	PASS
008+009	18.8	Max. 100	PASS
011	<10.0	Max. 100	PASS
“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram			

(21) Total Lead Content [Consumer Products Containing Lead Regulations(SOR/2018-83) amending SOR/2010-273]

Test Method : CPSC-CH-E1001-08.3 (Metal Substrates) / CPSC-CH-E1002-08.3 Section IA & IIA (Non-Metal Substrates)

Accessible part(s) of the following items shall not have total lead content greater than 90 milligrams per kilogram as per Consumer Products Containing Lead Regulations(SOR/2018-83) amending SOR/2010-273

<u>Sample</u>	<u>Result(mg/kg)</u>	<u>Requirement(mg/kg)</u>	
002	<10.0	Max. 90	PASS
003	<10.0	Max. 90	PASS
004	<10.0	Max. 90	PASS
005+006+007	<10.0	Max. 90	PASS
008+009	18.8	Max. 90	PASS
011	<10.0	Max. 90	PASS
“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram			

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited (“UL VS”)

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(22) Total Lead Content [Lead Risk Reduction Guidelines, Health Canada]

Test Method : In-House Method With Reference To SLIHT002

Criteria : The accessible materials on items intended for children must not exceed the Total Lead Limit of 600 milligrams per kilogram as per Lead Risk Reduction Guidelines, Health Canada

Sample	Result(mg/kg)	Requirement(mg/kg)	
005+006+007	<10.0	Max. 600	PASS
008+009	18.8	Max. 600	PASS
011	<10.0	Max. 600	PASS
“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram			

(23) Total Lead Content [Canada Regulation SOR/2022-122 amending the Surface Coating Materials Regulations SOR/2016-193]

Test Method : In House Method

Sample Number:	002	003	004	-
	Result	Result	Result	Requirement
Lead	<10.0	<10.0	<10.0	Max. 90
Conclusion	Pass	Pass	Pass	-

Remark:

1. All result expressed in mg/kg.
2. "<" means "less than".
3. "mg/kg" means "milligrams per kilogram".

(24) Total Mercury Content [Canada Regulation SOR/2022-122 amending the Surface Coating Materials Regulations SOR/2016-193]

Test Method : In House Method

Sample Number:	002	003	004	-
	Result	Result	Result	Requirement
Mercury	<10.0	<10.0	<10.0	Max. 10
Conclusion	Pass	Pass	Pass	-

Remark:

1. All result expressed in mg/kg.
2. "<" means "less than".
3. "mg/kg" means "milligrams per kilogram".

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(25) Total Cadmium Content [REACH Annex XVII]

Test Method : In House Method

Sample	Result(mg/kg)	Requirement(mg/kg)	
002	<10.0	Max. 1000	PASS
003	<10.0	Max. 1000	PASS
004	<10.0	Max. 1000	PASS
005+006+007	<10.0	Max. 100	PASS
011	<10.0	Max. 100	PASS

“<” means less than ; “>” means greater than ; “mg/kg” means milligrams per kilogram

(26) Organotin Compounds [Restriction of organotin compounds according to Regulation (EC) No. 1907/2006 on REACH Annex XVII Entry 20 as amended by commission Regulation (EC) No. 276/2010]

Extraction with ethanolic carbamate, derivatization/extraction with NaBEt4/Hexane and quantification with GC-MS.

Sample		Result (%)	Requirement (%)	
002	Tributyltin (TBT)	<0.001	Max. 0.1	PASS
	Triphenyltin (TPhT)	<0.001	Max. 0.1	PASS
	Dibutyltin (DBT)	<0.001	Max. 0.1	PASS
	Diocetyl tin (DOT)	<0.001	Max. 0.1	PASS
003	Tributyltin (TBT)	<0.001	Max. 0.1	PASS
	Triphenyltin (TPhT)	<0.001	Max. 0.1	PASS
	Dibutyltin (DBT)	<0.001	Max. 0.1	PASS
	Diocetyl tin (DOT)	<0.001	Max. 0.1	PASS
004	Tributyltin (TBT)	<0.001	Max. 0.1	PASS
	Triphenyltin (TPhT)	<0.001	Max. 0.1	PASS
	Dibutyltin (DBT)	<0.001	Max. 0.1	PASS
	Diocetyl tin (DOT)	<0.001	Max. 0.1	PASS

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited (“UL VS”)

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(26) Organotin Compounds [Restriction of organotin compounds according to Regulation (EC) No. 1907/2006 on REACH Annex XVII Entry 20 as amended by commission Regulation (EC) No. 276/2010]

Extraction with ethanolic carbamate, derivatization/extraction with NaBEt4/Hexane and quantification with GC-MS.

Sample		Result (%)	Requirement (%)	
005+006+007	Tributyltin (TBT)	<0.001	Max. 0.1	PASS
	Triphenyltin (TPhT)	<0.001	Max. 0.1	PASS
	Dibutyltin (DBT)	<0.001	Max. 0.1	PASS
	Diocetyl tin (DOT)	<0.001	Max. 0.1	PASS
010	Tributyltin (TBT)	<0.001	Max. 0.1	PASS
	Triphenyltin (TPhT)	<0.001	Max. 0.1	PASS
	Dibutyltin (DBT)	<0.001	Max. 0.1	PASS
	Diocetyl tin (DOT)	<0.001	Max. 0.1	PASS
013	Tributyltin (TBT)	<0.001	Max. 0.1	PASS
	Triphenyltin (TPhT)	<0.001	Max. 0.1	PASS
	Dibutyltin (DBT)	<0.001	Max. 0.1	PASS
	Diocetyl tin (DOT)	<0.001	Max. 0.1	PASS

(27) Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [94/62/EC]

Test Method: In House method

Sample	TOTAL CADMIUM	HEXAVALENT CHROMIUM	TOTAL LEAD	TOTAL MERCURY	Pb + Cd + Hg + Cr(VI)	
013	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
014	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
015	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
016	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
017	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
018+019	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
020+021	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
028+029	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
					Requirement (Max.)	100
<ul style="list-style-type: none"> - All concentrations expressed in milligrams per kilogram - "<" means less than 						

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(28) Heavy Metals in Packaging (Lead/Cadmium/Chromium VI/Mercury) [NERC Model legislation- Toxics in Packaging Clearhouse (TPCH)]

Test Method: In House method

Sample	TOTAL CADMIUM	HEXAVALENT CHROMIUM	TOTAL LEAD	TOTAL MERCURY	Pb + Cd + Hg + Cr(VI)	
013	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
014	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
015	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
016	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
017	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
018+019	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
020+021	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
028+029	<10.0	<10.0	<10.0	<10.0	<40.0	PASS
Requirement (Max.)					100	
<ul style="list-style-type: none"> - All concentrations expressed in milligrams per kilogram - "<" means less than 						

(29) Specific Substances in Stickers, Films and Surface Coatings [Canada Regulations SOR/2022-122 amending Consumer Product Safety Act, Toys Regulations (SOR/2011-17), Toxicological Hazards, Section 23]

Sample	Total Elements		Soluble Elements					
	<u>Pb</u>	<u>Hg</u>	<u>Sb</u>	<u>As</u>	<u>Ba</u>	<u>Cd</u>	<u>Se</u>	
002	<10.0	<10.0	**	**	**	**	**	PASS
003	<10.0	<10.0	**	**	**	**	**	PASS
004	<10.0	<10.0	**	**	**	**	**	PASS
Requirements (mg/kg)	<90	<10	<1000	<1000	<1000	<1000	<1000	
"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram								
Remarks : 1. The limits are not applicable to composite sample (s). 2. Methods for determination of total Lead (Pb) and Mercury (Hg) content (In-House Method). 3. Method for determination of each soluble element by EN 71-3. 4. **Test specimen less than 10 mg is not required to test soluble migrated elements according to EN 71-3.								

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(30) Migration of Certain Elements [AS/NZS 8124-3:2012 + A1:2016]

<u>Sample</u>	(Sb)	(As)	(Ba)	(Cd)	(Cr)	(Pb)	(Hg)	(Se)	
002**	**	**	**	**	**	**	**	**	NA
003**	**	**	**	**	**	**	**	**	NA
004**	**	**	**	**	**	**	**	**	NA
005	<5	<2.5	<20	<5	<5	<5	<5	<5	PASS
006	<5	<2.5	<20	<5	<5	<5	<5	<5	PASS
007	<5	<2.5	<20	<5	<5	<5	<5	<5	PASS
010	<5	<2.5	<20	<5	<5	<5	<5	<5	PASS
012	<5	<2.5	<20	<5	<5	<5	<5	<5	PASS
Requirement (Max.)	60	25	1000	75	60	90	60	500	

- All concentrations expressed in milligrams per kilogram and unadjusted unless otherwise stated
- "<" means less than
- Method for determination of each soluble element present: Antimony(Sb), Arsenic(As), Barium(Ba), Cadmium(Cd), Chromium(Cr), Lead(Pb), Mercury(Hg) and Selenium(Se) are determined by Inductively Coupled Plasma Spectroscopy.
- ** Test specimen less than 10 mg is not required to test soluble migrated elements according to AS/NZS 8124-3:2012 Section 7.
- "*" means the result(s) was (were) adjusted by subtracting the analytical correction factor.

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(31) Soluble Migrated Elements [ASTM F963-17 Section 4.3.5.1 (2), 4.3.5.2 (2b) & 8.3.2 – 8.3.5]

<u>Sample</u>	(Sb)	(As)	(Ba)	(Cd)	(Cr)	(Pb)	(Hg)	(Se)	
002**	**	**	**	**	**	**	**	**	NA
003**	**	**	**	**	**	**	**	**	NA
004**	**	**	**	**	**	**	**	**	NA
005	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	PASS
006	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	PASS
007	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	PASS
010	<6.0	<2.5	15.3	<6.0	<6.0	<6.0	<6.0	<6.0	PASS
012	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0	PASS
Requirement (Max.)	60	25	1000	75	60	90	60	500	
<ul style="list-style-type: none"> - All concentrations expressed in milligrams per kilogram and unadjusted unless otherwise stated - "<" means less than - Method for determination of each soluble element present: Antimony(Sb), Arsenic(As), Barium(Ba), Cadmium(Cd), Chromium(Cr), Lead(Pb), Mercury(Hg) and Selenium(Se) are determined by Inductively Coupled Plasma Spectroscopy. - **Test specimen less than 10 mg is not required to test soluble migrated elements according to ASTM F963 Section 8.3 2017. - "**" means the result(s) was (were) adjusted by subtracting the analytical correction factor. 									

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(32) Migration of Certain Elements [EN 71-3:2019+A1:2021]

<u>Elements¹</u>	<u>Limits Category III (Scraped-off material)</u>	<u>002**</u>	<u>003**</u>	<u>004**</u>	<u>005</u>
Aluminum	28130	-	-	-	<50.0
Antimony	560	-	-	-	<10.0
Arsenic	47	-	-	-	<2.5
Barium	18750	-	-	-	<25.0
Boron	15000	-	-	-	<25.0
Cadmium	17	-	-	-	<1.0
Chromium ⁽²⁾	-	-	-	-	<0.05
(Chromium III)	460	-	-	-	<0.05
(Chromium VI)	0.053	-	-	-	<0.05
Cobalt	130	-	-	-	<10.0
Copper	7700	-	-	-	<15.0
Lead	23	-	-	-	<10.0
Manganese	15000	-	-	-	<25.0
Mercury	94	-	-	-	<10.0
Nickel	930	-	-	-	<10.0
Selenium	460	-	-	-	<10.0
Strontium	56000	-	-	-	<50.0
Tin	180000	-	-	-	<1.5
Organic Tin ⁽³⁾	12	-	-	-	<6.2
Zinc	46000	-	-	-	<50.0
Sample weight between (0.01g) 10 mg and (0.1g) 100 mg		-	-	-	-
Rating		NA	NA	NA	PASS
"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram					

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
 16-17/F Tower B, Regent Centre
 63 Wo Yi Hop Road
 Kwai Chung, N.T., Hong Kong
 T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(32) Migration of Certain Elements [EN 71-3:2019+A1:2021]

<u>Elements¹</u>	<u>Limits</u>	<u>006</u>	<u>007</u>	<u>010</u>	<u>012</u>
	<u>Category III</u> <u>(Scraped-off material)</u>				
Aluminum	28130	<50.0	<50.0	1070	64.0
Antimony	560	<10.0	<10.0	<10.0	<10.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5
Barium	18750	<25.0	<25.0	<25.0	<25.0
Boron	15000	<25.0	<25.0	52.8	<25.0
Cadmium	17	<1.0	<1.0	<1.0	<1.0
Chromium ⁽²⁾	-	<0.05	<0.05	1.14	<0.05
(Chromium III)	460	<0.05	<0.05	1.14	<0.05
(Chromium VI)	0.053	<0.05	<0.05	<0.025 [#]	<0.05
Cobalt	130	<10.0	<10.0	<10.0	<10.0
Copper	7700	<15.0	<15.0	<15.0	<15.0
Lead	23	<10.0	<10.0	<10.0	<10.0
Manganese	15000	<25.0	<25.0	50.0	<25.0
Mercury	94	<10.0	<10.0	<10.0	<10.0
Nickel	930	<10.0	<10.0	<10.0	<10.0
Selenium	460	<10.0	<10.0	<10.0	<10.0
Strontium	56000	<50.0	<50.0	<50.0	<50.0
Tin	180000	<1.5	<1.5	<1.5	<1.5
Organic Tin ⁽³⁾	12	<6.2	<6.2	<6.2	<6.2
Zinc	46000	<50.0	<50.0	<50.0	<50.0
Sample weight between (0.01g) 10 mg and (0.1g) 100 mg		-	-	-	-
Rating		PASS	PASS	PASS	PASS

"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
 16-17/F Tower B, Regent Centre
 63 Wo Yi Hop Road
 Kwai Chung, N.T., Hong Kong
 T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(32) Migration of Certain Elements [EN 71-3:2019+A1:2021]

Remark: 1. Soluble migrated elements are determined by ICP-MS (Induced Couple Plasma Mass Spectrometry)

2. If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI are confirmed by ion speciation techniques

#: The chromium VI content is determined by LC-ICP-MS or High resolution UV-VIS spectroscopy. (If confirmation is done only)

3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and marked with "--". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis.

##: The Organic Tin content is determined by GCMS. (If confirmation is done only).

4. **Test specimen less than 10 mg is not required to test soluble migrated elements according to EN 71-3:2019+A1:2021 Section 7.1

(33) Polycyclic Aromatic Hydrocarbon (PAH) [REACH Annex XVII Entry 50 as amended by Commission Regulation (EU) No. 1272/2013]

With reference to AfPS GS 2019:01 PAK and Detection with GC-MS. (Method detection limit = 0.1 mg/kg)

PAHs	Results in mg/kg		*Requirement (mg/kg)
	(005+006+007)	(011)	
Benzo[a]pyrene	N.D.	N.D.	<0.5
Benzo[e]pyrene	N.D.	N.D.	<0.5
Benzo[a]anthracene	N.D.	N.D.	<0.5
Chrysene	N.D.	N.D.	<0.5
Benzo[b]fluoranthene	N.D.	N.D.	<0.5
Benzo[j]fluoranthene	N.D.	N.D.	<0.5
Benzo[k]fluoranthene	N.D.	N.D.	<0.5
Dibenzo[a,h]anthracene	N.D.	N.D.	<0.5
	PASS	PASS	
"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram "N.D." means Not Detected			
*Remark: Limits for Toys, including childcare articles.			

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(34) Total Phthalates Content [REACH Annex XVII Entry 51 & 52 amending by (EU) 2018/2005]

Test Method:	THF extraction followed by GC-MSD analysis		
Requirement:	Sum of DEHP, DBP, BBP & DIBP content shall not be more than 0.1% by weight.		
	Sum of DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and childcare articles which can be placed in the mouth by children.		
Results:	PASS		
Phthalates	002+003+004	005+006+007	011
DINP	<0.015%	<0.015%	<0.015%
DNOP	<0.015%	<0.015%	<0.015%
DIDP	<0.015%	<0.015%	<0.015%
DEHP	<0.015%	<0.015%	<0.015%
DBP	<0.015%	<0.015%	<0.015%
BBP	<0.015%	<0.015%	<0.015%
DIBP	<0.015%	<0.015%	<0.015%
Detection Limit for each phthalate = 0.015%			
Remark: The Limit is not applicable to composite samples.			
Di-iso-nonyl phthalate , DINP (CAS No. 28553-12-0/68515-48-0)		Di-n-octyl phthalate , DNOP (CAS No. 117-84-0)	
Bis(2-ethylhexyl) phthalate , DEHP (CAS No. 117-81-7)		Diisodecyl phthalate , DIDP (CAS No. 26761-40-0/ 68515-49-1)	
Dibutyl phthalate , DBP (CAS No. 84-74-2)		Benzyl butyl phthalate , BBP (CAS No. 85-68-7)	
Diisobutyl phthalate (DIBP) (CAS No. 84-69-5)			

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



(35) Total Phthalates Content [The U.S. Public Law 110 - 314, Consumer Product Safety Improvement Act of 2008, Title I, Section 108(a) & 16 CFR part 1307 & California Proposition 65]

Test Method:	CPSC-CH-C1001-09.4		
Requirement:	1. DEHP, DBP, BBP, DINP, DPENP, DHEXP, DCHP and DIBP content shall not be more than 0.1% by weight in any children’s toys and child care articles 2. DEHP, BBP, DBP, DIDP and DNHP shall not individually be more than 0.1% by weight in toys and child care articles.		
Results:	PASS		
Phthalates	002+003+004	005+006+007	011
DINP	<0.015%	<0.015%	<0.015%
DPENP	<0.015%	<0.015%	<0.015%
DEHP	<0.015%	<0.015%	<0.015%
DNHP/DHEXP	<0.015%	<0.015%	<0.015%
DBP	<0.015%	<0.015%	<0.015%
BBP	<0.015%	<0.015%	<0.015%
DCHP	<0.015%	<0.015%	<0.015%
DIBP	<0.015%	<0.015%	<0.015%
DIDP	<0.015%	<0.015%	<0.015%
DNOP	<0.015%	<0.015%	<0.015%
Detection Limit for each phthalate = 0.015%			
Di-iso-nonyl phthalate , DINP (CAS No. 28553-12-0/68515-48-0)	Dipentyl phthalate (DPP/DPENP) (CAS No.131-18-0)		
Bis(2-ethylhexyl) phthalate , DEHP (CAS No. 117-81-7)	Di-n-hexyl phthalate (DNHP/DHEXP) (CAS No. 84-75-3);		
Dibutyl phthalate , DBP (CAS No. 84-74-2)	Benzyl butyl phthalate , BBP (CAS No. 85-68-7)		
Dicyclohexyl phthalate (DCHP) (CAS No.84-61-7)	Diisobutyl phthalate (DIBP) (CAS No84-69-5.)		
Diisodecyl phthalate , DIDP (CAS No. 26761-40-0/ 68515-49-1)	Di-n-octyl phthalate (DNOP) (CAS No.117-84-0)		

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(36) Total Phthalates Content [Canada Phthalates Regulations (SOR/2016-188)]

Test Method:	CPSC-CH-C1001-09.4		
Requirement:	- The vinyl in a toy or child care article must contain not more than 1 000 mg/kg of di(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP) or benzyl butyl phthalate (BBP)		
	- The vinyl in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age must contain not more than 1000 mg/kg of diisononyl phthalate (DINP), diisodecyl phthalate (DIDP) or di-n-octyl phthalate (DNOP)		
Results:	PASS		
Phthalates	002+003+004	005+006+007	011
DINP	<0.015%	<0.015%	<0.015%
DNOP	<0.015%	<0.015%	<0.015%
DEHP	<0.015%	<0.015%	<0.015%
DIDP	<0.015%	<0.015%	<0.015%
DBP	<0.015%	<0.015%	<0.015%
BBP	<0.015%	<0.015%	<0.015%
Detection Limit for each phthalate = 0.015%			
Remark: The Limit is not applicable to composite samples.			
Di-iso-nonyl phthalate , DINP (Cas No. 28553-12-0/68515-48-0)		Di-n-octyl phthalate , DNOP (Cas No. 117-84-0)	
Bis(2-ethylhexyl) phthalate , DEHP (Cas No. 117-81-7)		Diisodecyl phthalate , DIDP (Cas No. 26761-40-0/ 68515-49-1)	
Dibutyl phthalate , DBP (Cas No. 84-74-2)		Benzyl butyl phthalate , BBP (Cas No. 85-68-7)	

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(37) DEHP Content Test [Australia Permanent Ban On DEHP In Children's Products, Consumer Protection Notice No. 11 of 2011, Competition and Consumer Act 2010, Commonwealth of Australia]

Test Method:	THF extraction followed by GC-MSD analysis.		
Requirement:	Toys, childcare articles, eating vessels and utensils, are intended for use by children up to and including 36 months of age, which contain or have a component contains more than 1% DEHP, and readily able to be sucked and/or chewed by children up to and including 36 months of age, are regarded as unsafe goods as per the Competition and Consumer Act 2010, Commonwealth of Australia.		
Results:	PASS		
Phthalates	<u>002+003+004</u>	<u>005+006+007</u>	<u>011</u>
DEHP	<0.015%	<0.015%	<0.015%
Detection Limit of DEHP= 0.015%			
Remark: The Limit is not applicable to composite samples. Bis(2-ethylhexyl) phthalate , DEHP (Cas No. 117-81-7)			

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



TEST REPORT NO : 1002064357

October 6, 2023

Page : 34 of 52

(38) CHEMICALS OF HIGH CONCERN TO CHILDREN (CHCC) – WASHINGTON STATE CHILDREN SAFE PRODUCT ACT

No.	Analyte	CAS No.	Item no.		
			<u>006+007+022</u>	<u>010</u>	<u>012</u>
1	Formaldehyde	50-00-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
2	Aniline	62-53-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
3	N-Nitrosodimethylamine	62-75-9	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
4	Benzene	71-43-2	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
5	Vinyl chloride	75-01-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
6	Acetaldehyde	75-07-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
7	Methylene chloride	75-09-2	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
8	Carbon disulfide	75-15-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
9	Methyl ethyl ketone	78-93-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
10	1,1,2,2-Tetrachloroethane	79-34-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
11	Tetrabromobisphenol A (TBBPA)	79-94-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
12	Bisphenol A (BPA)	80-05-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
13	Bisphenol S (BPS)	80-09-1	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
14	Dicyclohexyl phthalate (DCHP)	84-61-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
15	Diethyl phthalate (DEP)	84-66-2	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
16	Diisobutyl phthalate (DIBP)	84-69-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
17	Di-n-butyl phthalate (DBP)	84-74-2	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
18	Di-n-hexyl phthalate (DnHP)	84-75-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
19	Butyl benzyl phthalate (BBP)	85-68-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
20	N-Nitrosodiphenylamine	86-30-6	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
21	Hexachlorobutadiene (HCDB)	87-68-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
22	Propyl paraben	94-13-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
23	Butyl paraben	94-26-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
24	2-Aminotoluene	95-53-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
25	2,4-Diaminotoluene	95-80-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
26	Methyl paraben	99-76-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
27	4-Hydroxybenzoic acid	99-96-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
28	Ethylbenzene	100-41-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
29	Styrene	100-42-5	24 mg/kg	< 20 mg/kg	< 20 mg/kg
30	4-Nonylphenol	104-40-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
31	4-Chloroaniline	106-47-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
32	Acrylonitrile	107-13-1	22.3 mg/kg	< 20 mg/kg	< 20 mg/kg
33	Ethylene glycol	107-21-1	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
34	Toluene	108-88-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
35	Phenol	108-95-2	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
36	2-Methoxyethanol	109-86-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
37	Ethylene glycol monoethyl ether	110-80-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
38	Triphenyl phosphate (TPP)	115-86-6	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



TEST REPORT NO : 1002064357

October 6, 2023

Page : 35 of 52

39	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
40	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
41	Di-(2-methoxyethyl) phthalate (DMEP)	117-82-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
42	Di-n-octyl phthalate (DnOP)	117-84-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
43	Hexachlorobenzene	118-74-1	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
44	3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine	119-93-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
45	Ethyl paraben	120-47-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
46	1,4-Dioxane	123-91-1	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
47	Tris (2,3-dibromopropyl) phosphate (TDBPP)	126-72-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
48	Tri-n-butyl phosphate (TNBP)	126-73-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
49	Tetrachloroethene	127-18-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
50	Dipentyl phthalate (DPP)	131-18-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
51	Benzophenone-2 (Bp-2)	131-55-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
52	4-tert-Octylphenol	140-66-9	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
53	Estragole	140-67-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
54	2-Ethylhexanoic acid	149-57-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
55	Perfluorooctanoic acid (PFOA) and related substances	335-67-1	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
56	Pentachlorobenzene	608-93-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
57	Bisphenol F (BPF)	620-92-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
58	C.I. solvent yellow 14	842-07-9	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
59	N-Methylpyrrolidone	872-50-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
60	Decabromodiphenyl ether (BDE-209)	1163-19-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
61	Ethylhexyl diphenyl phosphate (EHDPP)	1241-94-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
62	Tricresyl phosphate (TCP)	1330-78-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
63	Perfluorooctane sulfonic acid and its salts; PFOS	1763-23-1	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
64	4-Octylphenol	1806-26-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
65	2-Ethyl-hexyl-4-methoxycinnamate	5466-77-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
66	Mercury & mercury compounds including methyl mercury (22967-92-6)	7439-97-6	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
67	Antimony & Antimony compounds	7440-36-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
68	Arsenic & Arsenic compounds including arsenic trioxide (1327-53-3) & dimethyl arsenic acid (75-60-5)	7440-38-2	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
69	Cadmium & cadmium compounds	7440-43-9	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
70	Cobalt & cobalt compounds	7440-48-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 36 of 52

71	Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
72	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
73	Butylated hydroxyanisole (BHA)	25013-16-5	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
74	Nonyl phenol	25154-52-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
75	Hexabromocyclododecane	25637-99-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
76	Bis (2-ethylhexyl) tetrabromophthalate (TBPH)	26040-51-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
77	Diisodecyl phthalate (DIDP)	26761-40-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
78	Diisononyl phthalate (unbranched) (DINP)	28553-12-0	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
79	Bis(chloromethyl)propane-1,3-diyl tetrakis-(2-chloroethyl) bis(phosphate) (V6)	38051-10-4	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
80	Isopropylated triphenyl phosphate (IPTPP)	68937-41-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
81	4-Nonyl phenol (NP) branched	84852-15-3	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
82	Decabromodiphenyl ethane (DBDPE)	84852-53-9	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
83	Short-chain chlorinated paraffins (SCCP)	85535-84-8	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
84	Chlorinated paraffins	108171-26-2	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg
85	2-ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)	183658-27-7	< 20 mg/kg	< 20 mg/kg	< 20 mg/kg

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 37 of 52

(38) CHEMICALS OF HIGH CONCERN TO CHILDREN (CHCC) – WASHINGTON STATE CHILDREN SAFE PRODUCT ACT

No.	Analyte	CAS No.	Item no.	
			023	024
1	Formaldehyde	50-00-0	< 20 mg/kg	< 20 mg/kg
2	Aniline	62-53-3	< 20 mg/kg	< 20 mg/kg
3	N-Nitrosodimethylamine	62-75-9	< 20 mg/kg	< 20 mg/kg
4	Benzene	71-43-2	< 20 mg/kg	< 20 mg/kg
5	Vinyl chloride	75-01-4	< 20 mg/kg	< 20 mg/kg
6	Acetaldehyde	75-07-0	< 20 mg/kg	< 20 mg/kg
7	Methylene chloride	75-09-2	< 20 mg/kg	< 20 mg/kg
8	Carbon disulfide	75-15-0	< 20 mg/kg	< 20 mg/kg
9	Methyl ethyl ketone	78-93-3	< 20 mg/kg	< 20 mg/kg
10	1,1,2,2-Tetrachloroethane	79-34-5	< 20 mg/kg	< 20 mg/kg
11	Tetrabromobisphenol A (TBBPA)	79-94-7	< 20 mg/kg	< 20 mg/kg
12	Bisphenol A (BPA)	80-05-7	< 20 mg/kg	< 20 mg/kg
13	Bisphenol S (BPS)	80-09-1	< 20 mg/kg	< 20 mg/kg
14	Dicyclohexyl phthalate (DCHP)	84-61-7	< 20 mg/kg	< 20 mg/kg
15	Diethyl phthalate (DEP)	84-66-2	< 20 mg/kg	< 20 mg/kg
16	Diisobutyl phthalate (DIBP)	84-69-5	< 20 mg/kg	< 20 mg/kg
17	Di-n-butyl phthalate (DBP)	84-74-2	< 20 mg/kg	< 20 mg/kg
18	Di-n-hexyl phthalate (DnHP)	84-75-3	< 20 mg/kg	< 20 mg/kg
19	Butyl benzyl phthalate (BBP)	85-68-7	< 20 mg/kg	< 20 mg/kg
20	N-Nitrosodiphenylamine	86-30-6	< 20 mg/kg	< 20 mg/kg
21	Hexachlorobutadiene (HCDB)	87-68-3	< 20 mg/kg	< 20 mg/kg
22	Propyl paraben	94-13-3	< 20 mg/kg	< 20 mg/kg
23	Butyl paraben	94-26-8	< 20 mg/kg	< 20 mg/kg
24	2-Aminotoluene	95-53-4	< 20 mg/kg	< 20 mg/kg
25	2,4-Diaminotoluene	95-80-7	< 20 mg/kg	< 20 mg/kg
26	Methyl paraben	99-76-3	< 20 mg/kg	< 20 mg/kg
27	4-Hydroxybenzoic acid	99-96-7	< 20 mg/kg	< 20 mg/kg
28	Ethylbenzene	100-41-4	< 20 mg/kg	< 20 mg/kg
29	Styrene	100-42-5	< 20 mg/kg	< 20 mg/kg
30	4-Nonylphenol	104-40-5	< 20 mg/kg	< 20 mg/kg
31	4-Chloroaniline	106-47-8	< 20 mg/kg	< 20 mg/kg
32	Acrylonitrile	107-13-1	< 20 mg/kg	< 20 mg/kg
33	Ethylene glycol	107-21-1	< 20 mg/kg	< 20 mg/kg
34	Toluene	108-88-3	< 20 mg/kg	< 20 mg/kg
35	Phenol	108-95-2	< 20 mg/kg	< 20 mg/kg
36	2-Methoxyethanol	109-86-4	< 20 mg/kg	< 20 mg/kg
37	Ethylene glycol monoethyl ether	110-80-5	< 20 mg/kg	< 20 mg/kg
38	Triphenyl phosphate (TPP)	115-86-6	< 20 mg/kg	< 20 mg/kg

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)

**TEST REPORT NO : 1002064357****October 6, 2023**

Page : 38 of 52

39	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	< 20 mg/kg	< 20 mg/kg
40	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	< 20 mg/kg	< 20 mg/kg
41	Di-(2-methoxyethyl) phthalate (DMEP)	117-82-8	< 20 mg/kg	< 20 mg/kg
42	Di-n-octyl phthalate (DnOP)	117-84-0	< 20 mg/kg	< 20 mg/kg
43	Hexachlorobenzene	118-74-1	< 20 mg/kg	< 20 mg/kg
44	3,3'-Dimethylbenzidine and Dyes Metabolized to 3,3'-Dimethylbenzidine	119-93-7	< 20 mg/kg	< 20 mg/kg
45	Ethyl paraben	120-47-8	< 20 mg/kg	< 20 mg/kg
46	1,4-Dioxane	123-91-1	< 20 mg/kg	< 20 mg/kg
47	Tris (2,3-dibromopropyl) phosphate (TDBPP)	126-72-7	< 20 mg/kg	< 20 mg/kg
48	Tri-n-butyl phosphate (TNBP)	126-73-8	< 20 mg/kg	< 20 mg/kg
49	Tetrachloroethene	127-18-4	< 20 mg/kg	< 20 mg/kg
50	Dipentyl phthalate (DPP)	131-18-0	< 20 mg/kg	< 20 mg/kg
51	Benzophenone-2 (Bp-2)	131-55-5	< 20 mg/kg	< 20 mg/kg
52	4-tert-Octylphenol	140-66-9	< 20 mg/kg	< 20 mg/kg
53	Estragole	140-67-0	< 20 mg/kg	< 20 mg/kg
54	2-Ethylhexanoic acid	149-57-5	< 20 mg/kg	< 20 mg/kg
55	Perfluorooctanoic acid (PFOA) and related substances	335-67-1	< 20 mg/kg	< 20 mg/kg
56	Pentachlorobenzene	608-93-5	< 20 mg/kg	< 20 mg/kg
57	Bisphenol F (BPF)	620-92-8	< 20 mg/kg	< 20 mg/kg
58	C.I. solvent yellow 14	842-07-9	< 20 mg/kg	< 20 mg/kg
59	N-Methylpyrrolidone	872-50-4	< 20 mg/kg	< 20 mg/kg
60	Decabromodiphenyl ether (BDE-209)	1163-19-5	< 20 mg/kg	< 20 mg/kg
61	Ethylhexyl diphenyl phosphate (EHDPP)	1241-94-7	< 20 mg/kg	< 20 mg/kg
62	Tricresyl phosphate (TCP)	1330-78-5	< 20 mg/kg	< 20 mg/kg
63	Perfluorooctane sulfonic acid and its salts; PFOS	1763-23-1	< 20 mg/kg	< 20 mg/kg
64	4-Octylphenol	1806-26-4	< 20 mg/kg	< 20 mg/kg
65	2-Ethyl-hexyl-4-methoxycinnamate	5466-77-3	< 20 mg/kg	< 20 mg/kg
66	Mercury & mercury compounds including methyl mercury (22967-92-6)	7439-97-6	< 20 mg/kg	< 20 mg/kg
67	Antimony & Antimony compounds	7440-36-0	< 20 mg/kg	< 20 mg/kg
68	Arsenic & Arsenic compounds including arsenic trioxide (1327-53-3) & dimethyl arsenic acid (75-60-5)	7440-38-2	27.2 mg/kg	42.8 mg/kg
69	Cadmium & cadmium compounds	7440-43-9	< 20 mg/kg	< 20 mg/kg
70	Cobalt & cobalt compounds	7440-48-4	< 20 mg/kg	< 20 mg/kg

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 39 of 52

71	Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	< 20 mg/kg	< 20 mg/kg
72	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	< 20 mg/kg	< 20 mg/kg
73	Butylated hydroxyanisole (BHA)	25013-16-5	< 20 mg/kg	< 20 mg/kg
74	Nonyl phenol	25154-52-3	< 20 mg/kg	< 20 mg/kg
75	Hexabromocyclododecane	25637-99-4	< 20 mg/kg	< 20 mg/kg
76	Bis (2-ethylhexyl) tetrabromophthalate (TBPH)	26040-51-7	< 20 mg/kg	< 20 mg/kg
77	Diisodecyl phthalate (DIDP)	26761-40-0	< 20 mg/kg	< 20 mg/kg
78	Diisononyl phthalate (unbranched) (DINP)	28553-12-0	< 20 mg/kg	< 20 mg/kg
79	Bis(chloromethyl)propane-1,3-diyl tetrakis-(2-chloroethyl) bis(phosphate) (V6)	38051-10-4	< 20 mg/kg	< 20 mg/kg
80	Isopropylated triphenyl phosphate (IPTPP)	68937-41-7	< 20 mg/kg	< 20 mg/kg
81	4-Nonyl phenol (NP) branched	84852-15-3	< 20 mg/kg	< 20 mg/kg
82	Decabromodiphenyl ethane (DBDPE)	84852-53-9	< 20 mg/kg	< 20 mg/kg
83	Short-chain chlorinated paraffins (SCCP)	85535-84-8	< 20 mg/kg	< 20 mg/kg
84	Chlorinated paraffins	108171-26-2	< 20 mg/kg	< 20 mg/kg
85	2-ethylhexyl-2,3,4,5-tetrabromobenzoate (TBB)	183658-27-7	< 20 mg/kg	< 20 mg/kg

Remarks:

1. The substances were tested in term of its respective elements (i.e. Antimony, Arsenic, Cobalt, Cadmium, Mercury and Molybdenum).
2. Each chemical on the CHCC list that is a contaminant present in a product component must be reported at any concentration above 100 mg/kg.
3. "<" means "less than"
4. "ppm" means "parts per million"
5. "The test results with the concentration above 100 mg/kg should be reported for the contaminant present under CHCC list"
6. "The test results express in mg/kg"

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



TEST REPORT NO : 1002064357

October 6, 2023

Page : 40 of 52

(39) 235 Substances of Very High Concern (SVHC) Screening Test

Acid digestion followed by ICP-AES analysis,
Solvent extraction followed by GC/MS, GC/ECD, and LC/MS/MS,
Headspace sampling followed by GC/MS

Result: **PASS**

006+007+010+011+012+022+028+029; 013+014+015+016+017+018+019+020+021; 023+024

No.	Substance Name	CAS Number	Concentration (%)	Limit (%)
-	Substances of Very High Concern (SVHC)	-	< 0.01	0.1

Remarks:

1. The substances were tested in term of their composing elements (i.e. Arsenic, Chromium, Cobalt, Lead, Tin, Aluminum, Silicon, Zirconium, Boron, Strontium, Zinc, Antimony, Barium, Titanium and Cadmium)
2. The reporting limit is 0.01%
3. The screening test is based on component level, no complex article calculation based on the ECHA Guidance "Requirements for substances in articles".
4. When the SVHC concentrations of an articles do not exceed 0.1%, the legal notification obligations to ECHA are not applicable. When the SVHC concentrations of an article exceed 0.1%, the legal notification obligations to ECHA should be further studied, depending on the annual quantities of the SVHC in the articles of the manufacturer / importer.

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

**The List of Substances of Very High Concern (SVHC):**

No.	Substance Name	CAS Number
1	Dibutyl phthalate (DBP)	84-74-2
2	Diisobutyl phthalate (DIBP)	84-69-5
3	Benzyl butyl phthalate (BBP)	85-68-7
4	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7
5	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2
6	4,4'-Diaminodiphenyl methane (MDA)	101-77-9
7	Hexabromocyclododecane (HBCD) and all major diastereoisomers identified; 1,2,5,6,9,10-hexabromocyclododecane; Hexabromocyclododecane; alpha-hexabromocyclododecane; beta-hexabromocyclododecane; gamma-hexabromocyclododecane	3194- 55-6, 25637-99-4; 134237-50-6; 134237-51-7; 134237- 52-8
8	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8
9	Anthracene	120-12-7
10	Acrylamide	79-06-1
11	2,4-Dinitrotoluene	121-14-2
12	Tris(2-chloroethyl) phosphate	115-96-8
13	Anthracene oil	90640-80-5
14	Anthracene oil, anthracene paste, distillation light	91995-17-4
15	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2
16	Anthracene oil, anthracene-low	90640-82-7
17	Anthracene oil, anthracene paste	90640-81-6
18	Coal tar pitch, high temperature	65996-93-2
19	Trichloroethylene	79-01-6
20	2-Methoxyethanol	109-86-4
21	2-Ethoxyethanol	110-80-5
22	2-Ethoxyethyl acetate	111-15-9
23	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4
24	Hydrazine	302-01-2; 7803-57-8
25	1-Methyl-2-pyrrolidone (NMP)	872-50-4
26	1,2,3-Trichloropropane	96-18-4
27	1,2-Benzenedicarboxylic acid, di-C6-8-branched and linear alkyl esters, C7-rich (DIHP)	71888-89-6
28	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
29	N,N-dimethylacetamide (DMAC)	127-19-5
30	Bis(2-methoxyethyl) ether	111-96-6
31	1,2-Dichloroethane	107-06-2
32	2-Methoxyaniline o-Anisidine	90-04-0
33	Bis(2-methoxyethyl) phthalate	117-82-8
34	Formaldehyde, oligomeric reaction products with aniline	25214-70-4
35	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
36	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4
37	Formamide	75-12-7
38	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.



TEST REPORT NO : 1002064357

October 6, 2023

Page : 42 of 52

No.	Substance Name	CAS Number	
39	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC)	59653-74-6	
40	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	
41	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride – HHPA) Combination of the cis-, trans isomers	85-42-7; 14166-21-3; 13149-00-3	
42	Hexahydromethylphthalic anhydride	Hexahydromethylphthalic anhydride	25550-51-0
		Hexahydro-4-methylphthalic anhydride	19438-60-9
		Hexahydro-1-methylphthalic anhydride	48122-14-1
		Hexahydro-3-methylphthalic anhydride	57110-29-9
43	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	
44	Diisopentyl phthalate (DIPP)	605-50-5	
45	N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	
46	1,2-Diethoxyethane	629-14-1	
47	N,N-dimethylformamide	68-12-2	
48	Furan	110-00-9	
49	Methyloxirane (Propylene oxide)	75-56-9	
50	Diethyl sulphate	64-67-5	
51	Dimethyl sulphate	77-78-1	
52	4,4'-methylenedi-o-toluidine	838-88-0	
53	4,4'-oxydianiline and its salts	101-80-4	
54	4-Aminoazobenzene	60-09-3	
55	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	
56	6-methoxy-m-toluidine (p-cresidine)	120-71-8	
57	Biphenyl-4-ylamine	92-67-1	
58	o-aminoazotoluene	97-56-3	
59	o-Toluidine; 2-Aminotoluene	95-53-4	
60	N-methylacetamide	79-16-3	
61	1-bromopropane; n-propyl bromide	106-94-5	
62	Dipentyl phthalate (DPP)	131-18-0	
63	Dihexyl phthalate (DnHP)	84-75-3	
64	Trixylyl phosphate	25155-23-1	
65	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DIHP + DnHP)	68515-50-4	
66	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters (C6, C7, C8, C9, C10)	68515-51-5
		1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters (C6, C8 and C10)	68648-93-1
67	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2]	-	
68	1,3-propanesultone	1120-71-4	

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 43 of 52

No.	Substance Name	CAS Number
69	Nitrobenzene	96-95-3
70	Benzo[a]pyrene	50-32-8
71	Chrysene	218-01-9
72	Benz[a]anthracene	56-55-3
73	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9
74	Phenolphthalein	77-09-8
75	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8
76	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
77	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9
78	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5
79	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0
80	Pentacosafuorotridecanoic acid	72629-94-8
81	Tricosafuorododecanoic acid	307-55-1
82	Henicosafuoroundecanoic acid	2058-94-8
83	Heptacosafuorotetradecanoic acid	376-06-7
84	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-
85	4-Nonylphenol, branched and linear	-
86	Methoxyacetic acid	625-45-6
87	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
88	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
89	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3
90	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
91	4-Nonylphenol, branched and linear, ethoxylated	-
92	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
93	Pentadecafluorooctanoic acid (PFOA)	335-67-1
94	Disodium 4-amino-3-[[4'-(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
95	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
96	Imidazolidine-2-thione; (2-imidazoline-2-thiol); Ethylenethiourea	96-45-7
97	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7
98	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
99	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1
100	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
101	Perfluorononan-1-oic-acid and its sodium and ammonium salts;	375-95-1 21049-39-8 4149-60-4
102	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7
103	nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3108-42-7 3830-45-3

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

**TEST REPORT NO : 1002064357****October 6, 2023**

Page : 44 of 52

No.	Substance Name	CAS Number
104	4-heptylphenol, branched and linear	1987-50-4 6465-71-0 6465-74-3 6863-24-7
105	4-tert-pentylphenol / p-(1,1-dimethylpropyl)phenol	80-46-6
106	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4
107	Dechlorane plus	13560-89-9 135821-74-8 135821-03-3
108	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-
109	Bis(tributyltin)oxide (TBTO)	56-35-9
110	Dibutyltin dichloride (DBTC)	683-18-1
111	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
112	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-
113	Cobalt dichloride	7646-79-9
114	Diarsenic pentaoxide	1303-28-2
115	Diarsenic trioxide	1327-53-3
116	Lead hydrogen arsenate	7784-40-9
117	Sodium dichromate	7789-12-0 10588-01-9
118	Triethyl arsenate	15606-95-8
119	Lead chromate	7758-97-6
120	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	12656-85-8
121	Lead sulfochromate yellow (C.I. Pigment Yellow 34)	1344-37-2
122	Boric acid; Boric acid, crude natural	10043-35-3 11113-50-1
123	Disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3
124	Tetraboron disodium heptaoxide, hydrate	12267-73-1
125	Sodium chromate	7775-11-3
126	Potassium chromate	7789-00-6
127	Ammonium dichromate	7789-09-5
128	Potassium dichromate	7778-50-9
129	Cobalt(II) sulphate	10124-43-3
130	Cobalt(II) dinitrate	10141-05-6
131	Cobalt(II) carbonate	513-79-1
132	Cobalt(II) diacetate	71-48-7
133	Chromium trioxide	1333-82-0
134	Acids generated from chromium trioxide and their oligomers	Chromic acid 7738-94-5 Dichromic acid 13530-68-2

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 45 of 52

No.	Substance Name	CAS Number
135	Strontium chromate	7789-06-2
136	Lead dipicrate	6477-64-1
137	Lead styphnate	15245-44-0
138	Lead diazide, Lead azide	13424-46-9
139	Trilead diarsenate	3687-31-8
140	Calcium arsenate	7778-44-1
141	Arsenic acid	7778-39-4
142	Zirconia Aluminosilicate Refractory Ceramic Fibres	650-017-00-8*
143	Aluminosilicate Refractory Ceramic Fibres	650-017-00-8*
144	Pentazinc chromate octahydroxide	49663-84-5
145	Potassium hydroxyoctaoxidizincatedichromate	11103-86-9
146	Dichromium tris(chromate)	24613-89-6
147	Diboron trioxide	1303-86-2
148	Lead(II) bis(methanesulfonate)	17570-76-2
149	Acetic acid, lead salt, basic	51404-69-4
150	Trilead bis(carbonate) dihydroxide	1319-46-6
151	Lead oxide sulfate	12036-76-9
152	[Phthalato(2-)]dioxotrilead	69011-06-9
153	Dioxobis(tearate)trilead	12578-12-0
154	Fatty acids, C16-18, lead salts	91031-62-8
155	Lead bis(tetrafluoroborate)	13814-96-5
156	Lead cyanamide	20837-86-9
157	Lead dinitrate	10099-74-8
158	Lead monoxide (lead oxide)	1317-36-8
159	Orange lead (lead tetroxide)	1314-41-6
160	Lead titanium trioxide	12060-00-3
161	Lead Titanium Zirconium Oxide	12626-81-2
162	Pentalead tetraoxide sulphate	12065-90-6
163	Pyrochlore, antimony lead yellow	8012-00-8
164	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped	68784-75-8
165	Silicic acid, lead salt	11120-22-2
166	Sulfurous acid, lead salt, dibasic	62229-08-7
167	Tetraethyllead	78-00-2
168	Tetralead trioxide sulphate	12202-17-4
169	Trilead dioxide phosphonate	12141-20-7
170	Cadmium	7440-43-9
171	Cadmium oxide	1306-19-0
172	Cadmium sulphide	1306-23-6
173	Lead di(acetate)	301-04-2
174	Sodium peroxometaborate	7632-04-4
175	Cadmium chloride	10108-64-2
176	Sodium perborate; perboric acid, sodium salt	15120-21-5; 11138-47-9
177	Cadmium fluoride	7790-79-6

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)

**TEST REPORT NO : 1002064357****October 6, 2023**

Page : 46 of 52

No.	Substance Name	CAS Number
178	Cadmium sulphate	10124-36-4 31119-53-6
179	Cadmium nitrate	10325-94-7
180	Cadmium hydroxide	21041-95-2
181	Cadmium carbonate	513-78-0
182	Octamethylcyclotetrasiloxane (D4)	556-67-2
183	Decamethylcyclopentasiloxane (D5)	541-02-6
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6
185	Lead	7439-92-1
186	Disodium octaborate	12008-41-2
187	Benzo[ghi]perylene	191-24-2
188	Terphenyl hydrogenated	61788-32-7
189	Ethylenediamine (EDA)	107-15-3
190	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7
191	Dicyclohexyl phthalate (DCHP)	84-61-7
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6
193	Benzo[k]fluoranthene	207-08-9
194	Fluoranthene	206-44-0
195	Phenanthrene	85-01-8
196	Pyrene	129-00-0
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8
198	2-methoxyethyl acetate	110-49-6
199	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-
201	4-tert-butylphenol	98-54-4
202	Diisohexyl phthalate	71850-09-4
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-
206	1-vinylimidazole	1072-63-5
207	2-methylimidazole	693-98-1
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4
209	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. Wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-
212	1,4-dioxane	123-91-1
213	2,2-bis(bromomethyl)propane 1,3-diol (BMP), 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA), 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0, 36483-57-5 / 1522-92-5, 96-13-9
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7
216	Glutaral	111-30-8
No.	Substance Name	CAS Number

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipated savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



TEST REPORT NO : 1002064357

October 6, 2023

Page : 47 of 52

217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-
218	Orthoboric acid, sodium salt	13840-56-7
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1
221	Tris(2-methoxyethoxy)vinylsilane	1067-53-4
222	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-
223	S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8
224	N-(hydroxymethyl)acrylamide	924-42-5
225	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4- (1,1,1,2,3,3,3-heptafluoropropan-2-yl) morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-
226	Perfluoroheptanoic acid and its salts (PFHpA) Ammonium perfluoroheptanoate Potassium perfluoroheptanoate Sodium perfluoroheptanoate	-
227	Melamine	108-78-1
228	Isobutyl 4-hydroxybenzoate	4247-02-3
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-
230	Barium diboron tetraoxide	13701-59-2
231	Bisphenol S (BPS) 4,4'-sulphonyldiphenol	80-09-1
232	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (Tetrabromobisphenol-A; TBBPA)	79-94-7
233	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene] , BTBPE	37853-59-1
234	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8
235	Bis(4-chlorophenyl) sulphone	80-07-9

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

ADF-001 (201303)



(40) Migration of Certain Elements [BS EN 71-3:2019+A1:2021]

<u>Elements¹</u>	<u>Limits Category III (Scraped-off material)</u>	<u>002**</u>	<u>003**</u>	<u>004**</u>	<u>005</u>
Aluminum	28130	-	-	-	<50.0
Antimony	560	-	-	-	<10.0
Arsenic	47	-	-	-	<2.5
Barium	18750	-	-	-	<25.0
Boron	15000	-	-	-	<25.0
Cadmium	17	-	-	-	<1.0
Chromium ⁽²⁾	-	-	-	-	<0.05
(Chromium III)	460	-	-	-	<0.05
(Chromium VI)	0.053	-	-	-	<0.05
Cobalt	130	-	-	-	<10.0
Copper	7700	-	-	-	<15.0
Lead	23	-	-	-	<10.0
Manganese	15000	-	-	-	<25.0
Mercury	94	-	-	-	<10.0
Nickel	930	-	-	-	<10.0
Selenium	460	-	-	-	<10.0
Strontium	56000	-	-	-	<50.0
Tin	180000	-	-	-	<1.5
Organic Tin ⁽³⁾	12	-	-	-	<6.2
Zinc	46000	-	-	-	<50.0
Sample weight between (0.01g) 10 mg and (0.1g) 100 mg		-	-	-	-
Rating		NA	NA	NA	PASS
"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram					

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
 16-17/F Tower B, Regent Centre
 63 Wo Yi Hop Road
 Kwai Chung, N.T., Hong Kong
 T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(40) Migration of Certain Elements [BS EN 71-3:2019+A1:2021]

<u>Elements¹</u>	<u>Limits</u>	<u>006</u>	<u>007</u>	<u>010</u>	<u>012</u>
	<u>Category III</u> <u>(Scraped-off material)</u>				
Aluminum	28130	<50.0	<50.0	1070	64.0
Antimony	560	<10.0	<10.0	<10.0	<10.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5
Barium	18750	<25.0	<25.0	<25.0	<25.0
Boron	15000	<25.0	<25.0	52.8	<25.0
Cadmium	17	<1.0	<1.0	<1.0	<1.0
Chromium ⁽²⁾	-	<0.05	<0.05	1.14	<0.05
(Chromium III)	460	<0.05	<0.05	1.14	<0.05
(Chromium VI)	0.053	<0.05	<0.05	<0.025 [#]	<0.05
Cobalt	130	<10.0	<10.0	<10.0	<10.0
Copper	7700	<15.0	<15.0	<15.0	<15.0
Lead	23	<10.0	<10.0	<10.0	<10.0
Manganese	15000	<25.0	<25.0	50.0	<25.0
Mercury	94	<10.0	<10.0	<10.0	<10.0
Nickel	930	<10.0	<10.0	<10.0	<10.0
Selenium	460	<10.0	<10.0	<10.0	<10.0
Strontium	56000	<50.0	<50.0	<50.0	<50.0
Tin	180000	<1.5	<1.5	<1.5	<1.5
Organic Tin ⁽³⁾	12	<6.2	<6.2	<6.2	<6.2
Zinc	46000	<50.0	<50.0	<50.0	<50.0
Sample weight between (0.01g) 10 mg and (0.1g) 100 mg		-	-	-	-
Rating		PASS	PASS	PASS	PASS

"<" means less than ; ">" means greater than ; "mg/kg" means milligrams per kilogram

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
 16-17/F Tower B, Regent Centre
 63 Wo Yi Hop Road
 Kwai Chung, N.T., Hong Kong
 T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



(40) Migration of Certain Elements [BS EN 71-3:2019+A1:2021]

Remark:	<ol style="list-style-type: none">1. Soluble migrated elements are determined by ICP-MS (Induced Couple Plasma Mass Spectrometry)2. If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI are confirmed by ion speciation techniques #: The chromium VI content is determined by LC-ICP-MS or High resolution UV-VIS spectroscopy. (If confirmation is done only)3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and marked with "--". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis. ##: The Organic Tin content is determined by GCMS. (If confirmation is done only).4. **Test specimen less than 10 mg is not required to test soluble migrated elements according to EN 71-3:2019+A1:2021 Section 7.1
---------	---

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



Sample Photo(s)



This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products



TEST REPORT NO: 1002064357

October 6, 2023

Page : 52 of 52

<p style="text-align: center;"><u>A0160</u></p> 	<p style="text-align: center;"><u>B0180</u></p> 
<p style="text-align: center;"><u>C0120</u></p> 	<p style="text-align: center;"><u>F0012</u></p> 
<p style="text-align: center;"><u>D0001, G0001, H0001</u></p> 	<p style="text-align: center;"><u>Revised Artwork (D0001, G0001, H0001)</u></p> <div style="border: 1px solid black; padding: 10px;"> <p>Concept, design & manufacture by Makedo Pty Ltd • 4 Paterson St, Abbotsford, Victoria, 3067, AUSTRALIA • hello@make.do Distributed in UK, IRELAND and BENELUX by Bigjigs Toys • Unit B, Kingsmead, Park Farm Ind Est, Folkestone, Kent, CT19 5EU, UK Bigjigs Toys BV • Filips van Bourgondiestraat 14, 3117 SE, Schiedam NL help@bigjigstoys.com</p>  </div>

***** End of Report *****

This letter / report / certificate shall not be reproduced (except in full version) without the written approval of the UL VS Hong Kong Limited ("UL VS")

LETTERS / REPORTS / CERTIFICATES: Letters / Reports / Certificates of UL VS are issued for the exclusive use of the Customer to whom they are addressed. No quotation from reports / certificates or use of the UL VS's name is permitted except by UL VS's express written authorization. Letters / reports / certificates apply only to the specific materials, products or processes tested, examined or surveyed and are not necessarily indicative of the qualities of apparently identical or similar materials, products or processes. Reports / Certificates of UL VS do not relieve sellers / suppliers from their contractual responsibilities with regard to the quality / quantity of the goods in delivery nor do they prejudice the Customer's right to claim against sellers / suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit. The liability of UL VS to the Customer in contract, tort (including negligence or breach of statutory duty) or howsoever, and whatever the cause thereof, (a) for any loss of profit, business, contracts, revenues, or anticipating savings; or (b) for any special indirect or consequential damage of any nature whatsoever, shall be limited to the amount of the fee paid in respect of the specific Work(s) which give rise to such claim. For Reports / Certificates, see reverse for Terms and Conditions of Service.

UL VS Hong Kong Limited
16-17/F Tower B, Regent Centre
63 Wo Yi Hop Road
Kwai Chung, N.T., Hong Kong
T: +(852) 2423 3092 / F: +(852) 2480 5436 / W: ul.com/consumer-products

UL VS Terms and Conditions

All services are governed by the following Terms and Conditions.

- Verification Services.** The UL Contracting Party ("we", "us", or "our" as the context requires) will perform commercial testing, verification, audit, assessment, inspection, and/or other services ("Services") in accordance with your instructions as described in this order, scope of work, project proposal, quotation, or order acknowledgment ("Quotation"). The Services will be limited to an assessment of your samples' conformity to requirements, specifications, and/or protocols you have established ("Your Requirements"), and do not express any opinion regarding the bulk from which the samples were drawn. The Services do not involve any assessment or evaluation to independent safety standards, and we and our affiliates have no responsibility to make any independent safety assessment of any samples.
- Retailer Programs.** If you request us to test compliance with retailer, carrier or other third party program ("Retailer") by requesting Services under the Retailer's program, you consent to our disclosure of all associated information, materials, and deliverables to such Retailer and acknowledge that, notwithstanding any terms to the contrary in these Terms and Conditions, the ownership of the deliverables for the Services will be in accordance with the Retailer's program.
- Payment Terms.** You will pay, without set off, our fees and related expenses in accordance with our then current pricing or as set out on the Quotation including the cost of all taxes, wire or transfer fees, duties, and other fiscal charges which become due on the quoted price and will indemnify us from and against liabilities, incurred as a result of failure to pay any such sums when they become due. We may charge interest at 1% per month (12% per year), or the maximum legal rate if less than 1.0% per month, from the due date until paid fully. You agree to pay reasonable collection costs, including attorneys' fees, if necessary, in the event of late or non-payment.
- Your Requirements.** You are responsible for establishing or selecting all Your Requirements that we will use in performing the Services. We may provide you with assistance in developing Your Requirements that meet your needs, however, in all cases you must review and approve Your Requirements to be used in performing the Services.
- Estimated Schedule and Price.** Any time schedule and pricing terms set forth in this Quotation are estimates only and subject to change upon reasonable notice from us depending upon the specific project.
- On-Site Investigations.** If we perform Services on site at your facilities, or at the facilities of other parties as directed by you; you will ensure that our representatives have safe, secure, and free access to the facilities. Our access will not be conditioned upon the execution of any agreement, waiver, or release. If our representatives are prevented from performing or completing any Services for any reason beyond our reasonable control, we will not be responsible for the nonperformance, and you may be charged for any actual expenses we incur and fees for Services performed.
- Deliverables.** We will provide you with a report outlining: (i) your instructions and request for Services accepted by us, (ii) Your Requirements used in providing the Services, (iii) the Services performed, and (iv) the results of those Services. We are under no obligation to refer to or report on any facts or circumstances which are outside your specific instructions received and accepted by us.
- Our Findings.** We do not guarantee that our opinions or findings will be recognized or accepted by third parties.
- Use of Names and Marks.** Except as otherwise authorized by us in writing, you will not use our name, abbreviation, symbols, marks, or the name of any of our subsidiaries, affiliates, or parent on any goods or their containers or packaging, or in connection with any advertising, promotions, or otherwise.
- Cancellation Fees.** If you cancel or change a Quotation: (i) for an inspection after 3:00 PM of the working day before the scheduled inspection date, we will charge you the Quotation price plus any travel costs incurred before the cancellation; (ii) for testing after we receive the sample(s) at the testing facility, we will charge you cancellation fees according to the amount of actual work performed with a minimum cancellation fee of \$100 USD; or (iii) for a scheduled audit date, you will be responsible for all incurred non-refundable travel costs associated with that audit. Any change or cancellation of an audit that occurs within 7 days of the scheduled audit will be charged a \$600 USD fee in addition to any incurred travel costs.
- No Warranty.** NO REPRESENTATION, WARRANTY, OR GUARANTEE, EXPRESS OR IMPLIED, IS INCLUDED IN THESE TERMS AND CONDITIONS, OR IN ANY QUOTATION, REPORT, OR OTHER DOCUMENT PROVIDED UNDER THESE TERMS AND CONDITIONS INCLUDING, BUT NOT LIMITED TO: (i) ANY "IMPLIED WARRANTY OF MERCHANTABILITY" OR "FITNESS FOR A PARTICULAR PURPOSE", (ii) NON-INFRINGEMENT, AND (iii) THAT THE WEB SERVICES (AS DEFINED BELOW) WILL BE UNINTERRUPTED, TIMELY, SECURE, OR ERROR-FREE.
- Your Information.** You represent and warrant that all information and data provided to us by you, or on your behalf ("Your Information"), is complete and accurate and may be relied upon to provide Services. In addition, you represent and warrant that all of Your Information is owned or licensed by you, and does not infringe on the intellectual property rights of any third party. If any information or data provided to us by you or on your behalf is either incomplete or inaccurate, we will not be liable in any manner for any deficiencies in the Services.
- Ownership of Work Product.** You will own the test reports or other materials provided to you pursuant to any Quotation. We may retain a copy of the test reports and other materials for our archives and for creating reports for you and third parties, as required by you.
- Web Services.** We may provide you with certain website tools and related services, including the ability to order services online through a website (collectively, the "Web Services"). The Web Services are provided to you as a convenience and are provided on an "as is, as available" basis. By using the Web Services, you acknowledge and agree that no data or content transmitted over our networks, the Internet, or wirelessly, or through or in connection with the Web Services, is guaranteed to be secure or free from unauthorized intrusion, and that data stored by us, our affiliates, or our service providers may be deleted, modified, or damaged. You acknowledge that if you wish to protect your transmission of data or files to us, it is your responsibility to use a secure encrypted connection to communicate with and use the Web Services. Your use of the Web Services is at your sole risk and is subject to any terms of use applicable to such Web Services. Web Services are included in the definition of Services above.
- Confidentiality.** We will not disclose your information obtained in confidence ("Confidential Information") to third parties, except our subsidiaries, affiliates, or subcontractors, without your prior written authorization. Confidential Information will not include information: (a) already known to us, (b) publicly available, (c) subsequently acquired by us from other sources without a breach of these Terms and Conditions, (d) disclosure that is necessary to perform the Services, (e) required to be produced by law or government order, or accreditation authority, or (f) related to a product bearing a UL Mark that should be disclosed to us or our affiliates pursuant to another agreement with you.
- Samples.** If we require sample examination, you will ship samples to us at your expense. Upon completion of testing, the samples will be destroyed, unless other arrangements are made for return of the samples at your expense. You acknowledge that testing and sample preparation may damage or destroy the sample(s), for which we will not be liable.
- LIMITATION OF LIABILITY.** OUR LIABILITY FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE OF ANY NATURE AND HOWSOEVER ARISING INCLUDING WITHOUT LIMITATION CLAIMS FOR ANY BREACH OF CONTRACT AND/OR ANY FAILURE TO EXERCISE APPROPRIATE SKILL AND CARE BY US WILL UNDER NO CIRCUMSTANCE EXCEED THE FEES RECEIVED FOR THE SPECIFIC SERVICES WHICH GIVE RISE TO SUCH CLAIMS. UNDER NO CIRCUMSTANCE WILL WE HAVE ANY LIABILITY FOR INDIRECT, CONSEQUENTIAL, INCIDENTAL, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO: LOSS OF PROFITS, GOODWILL, USE, DATA, FUTURE BUSINESS, OR PRODUCTION; CANCELLATION OF CONTRACTS ENTERED INTO BY YOU; OR OTHER INTANGIBLE LOSSES (EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES). UNDER NO CIRCUMSTANCE WILL WE BE LIABLE TO YOU FOR ANY CLAIMS FOR LOSS, DAMAGE, OR EXPENSE UNLESS SUCH CLAIM IS BROUGHT UNDER SECTION 25 (DISPUTES) WITHIN TWELVE MONTHS AFTER THE DATE OF THE PERFORMANCE BY US OF THE SERVICES WHICH GIVE RISE TO THE CLAIM OR, IN THE EVENT OF ANY ALLEGED NON-PERFORMANCE, WITHIN TWELVE MONTHS OF THE DATE WHEN SUCH SERVICES SHOULD HAVE BEEN COMPLETED.
- Indemnification.** You will defend, hold harmless, and indemnify us and our officers, directors, trustees, employees, agents, or subcontractors against all claims made by any third party for loss, damage, or expense arising out of these Terms and Conditions, including without limitation, the performance or non-performance of any Services or the Web Services.
- Waiver.** Any failure by a party to insist upon the performance of any section of these Terms and Conditions will not constitute a waiver of any rights under these Terms and Conditions or future performance of that section.
- No Third Party Beneficiaries.** The parties intend that no provisions of these Terms and Conditions will in any way bind or benefit any third party or the public at large and that no third party will have any rights or cause of action under these Terms and Conditions. In particular, in the event Singapore law governs these Terms and Conditions pursuant to Section 24 (Governing Law), a person or entity who is not a party to these Terms and Conditions will have no right under the Contracts (Rights of Third Parties) Act (Chapter 53B) to enforce any term of these Terms and Conditions, regardless of whether such person or entity has been identified by name, as a member of a class, or as answering a particular description.
- No Assignment.** Neither party may assign any of its rights or obligations under these Terms and Conditions to any other person without the other party's written authorization. However, we may, upon written notice, assign our rights and obligations under these Terms and Conditions to any of our affiliates or subsidiaries.
- Subcontracting.** We may use subcontractors for certain testing or other Services. All subcontractors will meet our current qualification requirements and will comply with our requirements for confidentiality, conflicts of interest, and ethical standards.
- Termination and Notice.** These Terms and Conditions will continue in effect until terminated by either party upon thirty days written notice or, in the event of your breach of these Terms and Conditions, immediately upon receipt of written notice to you. You will pay those fees and expenses incurred by us prior to termination. Notice to either party may be made by hand delivery, courier service, mail, facsimile, or e-mail transmission at the receiving party's designated principal place of business. Notice to us must be sent both to: UL Verification Services Pte. Ltd, Attn: President, 1 Maritime Square, Harbour Front Centre, #11-03, Singapore 099253 with a copy to UL LLC, Attn.: General Counsel at 333 Pfingsten Road, Northbrook, Illinois 60062. Notice will be effective upon receipt.
- Governing Law:** These Terms and Conditions will be governed and interpreted by the laws of the State of Illinois, United States of America, except if: (i) UL Contracting Party's principal place of business is Asia, Australia, or New Zealand, then Singapore law, and (ii) UL Contracting Party's principal place of business is Europe, then Swiss law, without reference to the applicable jurisdiction's choice of law principles.
- Disputes.** Any dispute or disagreement, other than nonpayment of fees, relating to these Terms and Conditions or the Services, will be settled by confidential, binding arbitration administered by the International Centre for Dispute Resolution of the American Arbitration Association ("AAA") pursuant to the AAA Commercial Arbitration Rules and the Procedures for Large, Complex Commercial Disputes. The arbitration venue will be Chicago, Illinois, except if: (i) UL Contracting Party's principal place of business is in Europe, the venue will be Geneva, Switzerland, and (ii) UL Contracting Party's principal place of business is in Asia, Australia, or New Zealand, the venue will be Singapore, Republic of Singapore. The arbitration will be conducted before a panel of three (3) arbitrators. The arbitration panel will be selected as follows: the parties will request a list of ten (10) arbitrators drawn from the AAA's panel of commercial arbitrators (who are experienced in and familiar with the AAA's Procedures for Large, Complex Commercial Disputes). From this list, both parties will each choose one arbitrator. After they have been notified of their panel selection, the two (2) arbitrators will agree on a third arbitrator from the list of ten (10), who will be the chair of the panel, and the panel will be final. The decision of the majority of the arbitrators will be the panel's decision. The arbitrators will not have the authority to add, change, or disregard any term of these Terms and Conditions to award incidental, consequential, or punitive damages (including, but not limited to, loss of use, unjust enrichment, and/or lost profits), or exceed the remedies provided by the limitation of liability of these Terms and Conditions. The panel's decision will be binding and judgment on the arbitration award may be entered by a court of competent jurisdiction. Arbitration will be the final remedy for any dispute between the parties arising out of these Terms and Conditions, provided, however, that nothing herein will prevent either party from seeking a court order for injunctive relief (in addition to other remedies) to stop or prevent misuse or misappropriation of its marks, confidential or proprietary information, or infringement of its intellectual property, in a court of law. All arbitrations will be conducted in English.
- Severability.** If any section of these Terms and Conditions is held invalid, void, or unenforceable for any reason that section will be severed, and all other sections of these Terms and Conditions will remain valid to the extent permissible under law.
- Modifications.** These Terms and Conditions are the entire and complete agreement between the parties and supersede any other communications, representations, or agreements with respect to its subject matter. Under no circumstances will any preprinted, additional, or different terms and conditions on your requests for quotation, purchase orders, invoices, sales or marketing materials, emails, any acceptance communications, or other business documents apply to any Services or Quotation or bind us in any manner. Modifications that have not been made by us or that have not been accepted by us in a written or emailed confirmation from us are not accepted by us, and commencement of performance will not signify acceptance by us of any such modifications. Any such modifications are excluded from our agreement, and such modifications will not be a binding agreement on us.
- Order of Precedence.** Except for conflicts with Section 3 (Payment Terms), Section 5 (Estimated Schedule and Price) and Section 10 (Cancellation Fees), these Terms and Conditions will take precedence over any conflicting terms in any Quotation.
- Electronic Signature.** These Terms and Conditions may be executed and delivered by facsimile, PDF, or by means of other electronic signature. Our electronic, digital, or hard copies of these Terms and Conditions, your acceptance, and Quotations as signed, or otherwise accepted, by you will be the true, complete, valid, authentic, and enforceable copies of these documents. You agree that you will not contest the admissibility or enforceability of our copies in a court or any proceeding arising out of such documents.
- Force Majeure.** Neither party will be liable for any failure or delay in the performance of its obligations due to fire, flood, earthquake, governmental actions, epidemics, elements of nature, or acts of God, acts of war, terrorism, riots, civil disorder, rebellions, or other similar cause beyond the reasonable control of the party affected, provided such default or delay: (i) could not have been prevented by reasonable precautions; (ii) cannot reasonably be circumvented; (iii) and the party hindered or delayed immediately notifies the other party describing the circumstance causing delay.