

REPORT NO. : A20121352 DATE : Apr.19,2013

CLIENT:

ABILITY INTERNATIONAL ENTERPRISE LTD. Unit 1905-06, 19/F, Enterprise Square Three, 39 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong

Attn. : Yanny Fong

SAMPLE DESCRIPTION:

Submitted six (6) pieces of Orbit Ball, nine (9) pieces of Flashing Orbit Ball, one (1) pack of Material and four (4) pieces of Packaging samples.***

Buyer Name : Toysmith

Supplier/Vendor/Manufacturer : AURIENT INTERNATIONAL CORP.

Style / Item no : 2690 (2690F), 2691

Country of Origin : China Exported To : USA Labeled Age Grade : N/A

Date(s) of samples received : April 05, 2013 (p.m.)

TEST METHOD & RESULTS: Please refer to next page(s)

CONCLUSION: Please refer to page two (2).

For and on behalf of UL VS Hong Kong Limited

Kevin Chan - Department Manager

(Toys Testing)

/dh

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CONCLUSION:

| CONCLUSION: | |
|---|-----------------|
| ASTM F963-11 / 16 CFR 1500 & 1501 Physical and Mechanical Requirements | PASS |
| ASTM F963-11 / 16 CFR 1500.3 (c) (6) (vi) Flammability Requirements | PASS |
| ASTM F963-11 section 4.3.5.1 (1) Total Lead Content Requirements | NOT APPLICABLE# |
| ASTM F963-11 section 4.3.5.2 (2)(a) Total Lead Content Requirements | PASS |
| ASTM F963-11 section 4.3.5.1 (2) Soluble Migrated Elements Requirements | NOT APPLICABLE# |
| ASTM F963-11 section 4.3.5.2 (2)(b) Soluble Migrated Elements Requirements | PASS |
| Canada Toys Regulations SOR/2011-17 (Test Method Refer to Health Canada Product Safety Reference Manual Book 5 - | PASS |
| Laboratory Policies and Procedures Part 5: Test Method Section) Physical and Mechanical Tests | |
| Canada Toys Regulations SOR/2011-17 Clause 21 Flammability Test | PASS |
| Canada Toys Regulations SOR/2011-17 Toxicological Hazards Heavy Metal Content Requirements | NOT APPLICABLE# |
| EN71-1:2011 Mechanical and Physical Properties | PASS |
| EN71-2:2011 Flammability Requirements | PASS |
| EN71-3:1994+A1:2000 & AC:2002 Migration of Certain Elements | PASS |
| EN 62115:2005 Electric Toys – Safety | PASS |
| Laser Power Measurement as per IEC60825-1:1993+A1:1997+A2:2001 including Corrigendum 1:2002 / EN60825- | REPORT AS IS |
| 1:1994+A2:2001+A1:2002 | |
| Client's Specification with reference to U.S. Public Law 104-142, (H.R. 2024), May 13, 1996 Heavy Metals in Batteries | PASS |
| Client's Specification with reference to 2009/48/EC Heavy Metal Content Test | PASS |
| 94/62/EC Heavy Metals Requirements on Packaging and Packaging Waste | PASS |
| 2006/66/EC Heavy Metals in Batteries | PASS |
| Total Cadmium Content as per Restriction of Cadmium according to Regulation (EC) No. 1907/2006 on REACH Annex | PASS |
| XVII Item No 23 as amended by Commission Regulation (EC) No. 552/2009 and Commission Regulation (EU) No. | |
| 494/2011 | |
| 2002/96/EC (WEEE) - BS EN 50419:2006 and Marking of Electrical and Electronic Equipment in Accordance with | PASS |
| Article 11(2) of Directive | |
| 2006/66/EC with reference to the Dimensional Rules of BS EN 61429:1997 Clause 3.2.2 and 3.2.3 Marking on Batteries | PASS |
| and Accumulators in Accordance with Article 21(3), (4), (5) of Directive | |
| NERC (Formerly Organization: CSG) Model Legislation – Toxics in Packaging Clearinghouse (TPCH), Last Revised | PASS |
| July 2012 | |
| Total Lead Content in Paint or Surface Coating as per the U.S. Public Law 110 - 314, Consumer Product Safety | NOT APPLICABLE# |
| Improvement Act of 2008, Title I, Section 101(f) & 16 CFR 1303 | |
| Total Lead Content in Substrate Materials as per the U.S. Public Law 110 – 314, Consumer Product Safety Improvement | PASS |
| Act of 2008, Title I, Section 101(a)(2) | |
| Total Lead Content in Substrate Materials as per Client's Specification with reference to California Proposition 65 | PASS |
| Total Lead Content as per the Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2010-273) | PASS |
| Total Phthalate Test as per Restriction of Phthalates according to Regulation (EC) No. 1907/2006 on REACH Annex | PASS |
| XVII Item No 51/52 as amended by Commission Regulation (EC) No. 552/2009 & Client's Specification | |
| Total Phthalate Test as per the U.S. Public Law 110 – 314, Consumer Product Safety Improvement Act of 2008 Title I, | PASS |
| Section 108 & California Proposition 65 | |
| Total Phthalate Test as per Canada Phthalates Regulations (SOR/2010-298) & Client's Specification | PASS |
| Tracking Label Evaluation | REPORT AS IS |
| EN 55014-1: 2006 + A1: 2009 + A2: 2011 and EN 55014-2: 1997 + A1: 2001 + A2: 2008 ^ | PASS |
| 2011/65/EU - Restriction of Hazardous Substances (RoHS) | PASS |
| Screening Test Method of Elements Using Energy Dispersive X-Ray Eluorescence Spectroscopy | |

- Screening Test Method of Elements Using Energy-Dispersive X-Ray Fluorescence Spectroscopy
- Chemical Method of Brominated Flame Retardants (PBB & PBDE)

Tests are not performed as there is no coating can be scraped off from the submitted test sample.

REMARK: THE RESULTS RELATE ONLY TO THE SAMPLES TESTED.

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[^] TEST WAS PERFORMED BY SUBCONTRACTOR



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TEST RESULTS:

1.1 PHYSICAL AND MECHANICAL TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:

A) ASTM F963-11

B) 16 CFR

The following clauses are identified to be applicable:

Applicant Specified Age Grading for testing: All ages

Sample size: $2 \text{ piece(s)} \times 2 \text{ style(s)}$

| <u>ASTM</u> | <u>16 CFR</u> | <u>Test Items</u> | <u>Assessment</u> |
|-------------|---------------|---|-------------------|
| 4.6.1 | 1501 | Toys Intended for Children Under 3 Years – Small Objects | Pass |
| 4.7 | 1500.49 | Accessible Edges | Pass |
| 4.9 | 1500.48 | Accessible Points | Pass |
| 4.25 | | Battery-Operated Toys | Pass |
| 4.34 | | Balls | Pass |
| 5 | | Labeling Requirements | Pass |
| 7 | | Producer's Markings | Pass |
| | 1500.121 | Labeling requirements, prominence, placement, and conspicuousness | Pass |

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Assessment

TEST RESULTS:

1.2 PHYSICAL AND MECHANICAL TESTS TO CANADA TOYS REGULATIONS SOR/2011-17 (TEST METHOD REFER TO HEALTH CANADA PRODUCT SAFETY REFERENCE MANUAL BOOK 5 – LABORATROY POLICIES AND PROCEDURES PART 5: TEST METHOD SECTION)

The following clauses are identified to be applicable:

Clause Test Item (Test Method)

Applicant Specified Age Grading for testing: All ages

Sample size: 1 piece(s) \times 2 style(s)

| Clause | Test tiem (Test Wethod) | Assessment |
|---------|--|---------------|
| 3 | Official languages | Pass |
| 7 | Small parts (M00.1*, M01.1*) | Pass |
| 10 | Plastic edges (M00.2*, M00.3*, M01.1*) | Pass |
| *Remark | <u>s:</u> | |
| M00.1 | Method M00.1 Small components (2011-12-02) | |
| M00.2 | Method M00.2 Sharp edges (2011-12-02) | |
| M00.3 | Method M00.3 Sharp points (2011-12-05) | |
| M01.1 | Method M01.1 Reasonably foreseeable use - toys (2011-12-05) | |
| M01.2 | Test procedures to determine mechanical hazards of toys – reasonable forest dolls and soft toys (2010-04-30) | eeable use of |
| M03 | Test method for flexible film bags (2009-12-01) | |
| M04 | Test method to determine the noise level of the toys (2011-09-22) | |
| M05 | Test method for rattles (2010-10-12) | |

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TEST RESULTS:

1.3 PHYSICAL AND MECHANICAL TESTS OF THE MOST STRINGENT REQUIREMENTS OF THE FOLLOWING STANDARDS:

A) EN71-1:2011

Cl----- T--4 I4-----

Applicant Specified Age Grading for testing: All ages

Sample size: 1 piece(s) \times 2 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 |
| 4.10.1 | Folding and sliding mechanisms | Not Applicable |
| 4.10.2 | Driving mechanisms | Not Applicable |
| 4.10.3 | Hinges | Not Applicable |
| 4.10.4 | Springs | 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 |
| 4.14.1 | Toys which a child can enter | Not Applicable |
| 4.14.2 | Masks and helmets | Not Applicable |
| 4.15 | Toys intended to bear the mass of a child | Not Applicable |

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TEST RESULTS:

| 4.16 | Heavy immobile toys | Not Applicable |
|------|---|----------------|
| 4.17 | Projectiles | 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 |
| 5.1 | General Requirements - Toys intended for children under 36 months | Pass |
| 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 | Pass |
| 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 |

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TEST RESULTS:

6 Packaging Not Applicable

7.1 General – Warnings, markings and instructions for use Pass

7.2 Warning on toys not intended for children under 36 months
 7.5 Warnings on functional toys and their packaging
 Not Applicable
 Not Applicable

Remarks:

Address of manufacturer or his authorized representatives or importer should be located in EU community.

The attention of the applicant was drawn to the need for the item to be labeled with the name and address of the importer in EEC on the toy or on its packaging together with a CE-Marking as specified in corresponding directive. If this information was not fixed to the toy itself, it should be accompanied by a notice in advising the purchaser to retain it.

1.4 FLAMMABILITY TEST TO ASTM F963-11 Annex A5 / 16 CFR 1500.44 defined under 16 CFR 1500.3 section (c) (6) (vi)

Sample size: 1 piece(s) \times 2 style(s)

Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.

Results: The burn rate of sample(s) were less than 0.1 inch per second.

1.5 FLAMMABILITY TEST (CELLULOSE NITRATE) TO CANADA TOYS REGULATIONS SOR/2011-17

The following clauses are identified to be applicable:

Applicant Specified Age Grading for testing: All ages

Sample size: 1 piece(s) \times 2 style(s)

<u>Clause</u> <u>Test Item</u> <u>Assessment</u>

21 Celluloid or cellulose nitrate Pass

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TEST RESULTS:

1.6 FLAMMABILITY TEST TO EN 71-2:2011 CLAUSE 4.1 GENERAL REQUIREMENT (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 present in toys.

Results: The submitted sample(s) complied with this requirement.

1.7 TRACKING LABEL EVALUATION

Producer marking on toy:Not FoundTracking code on toy:Not FoundProducer marking on packaging:TOYSMITHTracking code on packaging:03/13/120

1.8 MARKING OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN ACCORDANCE WITH ARTICLE 11(2) OF DIRECTIVE 2002/96/EC (WEEE) - BS EN 50419:2006 CLAUSE 4.2

Sample size: 1 piece(s) \times 2 style(s)

Result: The design of marking met the requirement.

1.9 MARKING ON BATTERIES AND ACCUMULATORS IN ACCORDANCE WITH ARTICLE 21(3), (4), (5) OF DIRECTIVE 2006/66/EC WITH REFERENCE TO THE DIMENSIONAL RULES OF BS EN 61429:1997 CLAUSE 3.2.2 AND 3.2.3

Sample size: 1 piece(s) \times 2 style(s)

Result: The design of marking met the requirement.

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TEST RESULTS:

1.10 EXAMINATION AND TEST FOR COMPLIANCE WITH APPROPRIATE TESTS OF EN 62115:2005+ A11:2012

SUMMARY OF TESTING RESULTS

| <u>Clause</u> | <u>Test Items</u> | <u>Assessment</u> |
|---------------|---|---------------------------|
| 1 | Scope | |
| 2 | Normative references | |
| 3 | Definitions | |
| 4 | General requirement | |
| 5 | General conditions for the tests | |
| 6 | Criteria for reduced testing | |
| 7 | Marking and instructions | Pass |
| 8 | Power input | Not Applicable |
| 9 | Heating and abnormal operation | Pass |
| 10 | Electrical strength at operating temperature | Pass |
| 11 | Moisture resistance | Pass |
| 12 | Electric strength at room temperature | Pass |
| 13 | Mechanical strength | Pass |
| 14 | Construction | Pass |
| 15 | Protection of cords and wires | Pass |
| 16 | Components | Pass ¹ |
| 17 | Screws and connections | Pass |
| 18 | Clearances and creepage distances | Pass |
| 19 | Resistance to heat and fire | Pass |
| 20 | Radiation, toxicity and similar hazards | Report As Is ² |
| Annex A | Experimental sets | Not Applicable |
| Annex E | Toys incorporating lasers and light-emitting diodes | Pass |
| Annex ZB | Toys with protective electronic circuit | Not Applicable |

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TEST RESULTS:

Details:

- 1. Only clause 16.2 was assessed in Clause 16. Manufacturer had to ensure other components, if available, including switch, automatic controls, transformer, etc. specified in Clause 16.1 and 16.3 were in compliance with the safety requirements of the relevant standard and met the national deviation requirement of the importing countries.
- 2. This section only covered the essential safety requirements concerning electrical properties on the safety of toys and in order to comply with EN62115, electrical toys also have to comply with EN71 and Class 1 Classification in accordance with EN60825-1 for the lasers and light emitting diodes (LEDs).

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TEST RESULTS:

1.11 LASER POWER MEASUREMENT AS PER IEC60825-1:1993+A1:1997+A2:2001 including Corrigendum 1:2002 / EN60825-1:1994+A2:2001+A1:2002

Test Condition:

The measurement was carried out using the setup which according to IEC60825-1 / EN60825-1.

Temperature : 23°C
Relative Humidity : 55% RH
Description : End Product

Test Data:

Test Item : Blue LED Red LED
Time Base : 100 seconds 100 seconds

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

Accessible emission limits

| Wavelength (nm) | | Class1, 1M $(t = 100s)$ | Class 2, 2M $(t \ge 0.25s)$ | Class 3R $(0.25s \le t \le 100s)$ | |
|-----------------|-------------|---|-----------------------------|--|--|
| 400 to 600 | | | | | |
| 400 to 700 | $t > T_2$ | $\square \alpha \le 1.5 mrad$: $3.9 \times 10^{-4} W$ $\square \alpha > 1.5 mrad$: $7 \times 10^{-4} C_6 T_2^{-0.25} W$ | $\square C_6 10^{-3} W$ | $\square 5 \times 10^{-3} C_6 W$ | |
| | $t \le T_2$ | $\square 7 \times 10^{-4} t^{0.75} C_6 J$ | | | |
| 700 to 1050 | $t > T_2$ | $ \Box \alpha \leq 1.5 mrad : 3.9 \times 10^{-4} C_4 C_7 W \Box \alpha > 1.5 mrad : 7 \times 10^{-4} C_4 C_6 C_7 T_2^{-0.25} W $ | | $\square \alpha \leq 1.5 mrad :$ $2 \times 10^{-3} C_4 C_7 W$ | |
| | $t \le T_2$ | $\Box 7 \times 10^{-4} t^{0.75} C_4 C_6 C_7 J$ | | $\Box \alpha > 1.5 mrad:$ $3.5 \times 10^{-3} C_4 C_6 C_7 T_2^{-0.25} W$ | |

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

Normal Operation (Continuous wave) : <u>Class 1 (See below test data)</u>

Tested Item : Blue LED Red LED

Model no. of LED Not provided by Not provided by

Client Client

Measured wave length (nm) : 453nm 632nm

Measured radiant power for RPH

 (μW) : 0.715mJ

Measured radiant power for RTH : 682.9μ W 77.54 μ W

 (μW) Calculated accessible emission

limit for Class 1 - RPH (µW) : 3.9mJ ---

Calculated accessible emission limit for Class 1 - RTH (mW) : 3.638mW 3.638mW

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

| Abnormal Operation | : | Not Applicable | |
|---|---|----------------|--|
| Tested Item | : | | |
| Model no. of LED | : | | |
| Measured wave length (nm) | : | | |
| Measured radiant power for RPH (μW) | : | | |
| Measured radiant power for RTH (μW) | : | | |
| Calculated accessible emission limit for Class 1 - RPH (μW) | : | | |
| Calculated accessible emission limit for Class 1 - RTH (mW) | : | | |

Conclusion:

The end product under consideration is classified as Class 1 (in normal operation).

Date(s) of test(s) conducted: April 10, 2013

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2. CHEMICAL TESTS:

Key to sample(s):

Sample 1 = Pink plastic (ball)
Sample 2 = Yellow plastic (ball)
Sample 3 = Purple plastic (ball)
Sample 4 = Blue plastic (ball)
Sample 5 = Orange plastic (ball)
Sample 6 = Green plastic (ball)
Sample 7 = Clear plastic (inner ball)

Sample 8 = Clear plastic sheet (wrapper) (inaccessible) + Clear LED (inaccessible)

Sample 9 = Brown/ green/ white PCB board (inaccessible)

Sample 10 = Multi color paper board (box) + Multi color paper card (hangtag)

Sample 11 = White plastic (fastener)

2.1 SOLUBLE MIGRATED ELEMENTS: ASTM F963-11 Section 4.3.5.2 (2)(b) & 8.3.5.4 for samples 1 to 7

Results:

| Elements | Antimony | Arsenic | Barium | Cadmium | Chromium | Lead | Mercury | Selenium |
|----------|----------|---------|--------|---------|----------|-------|---------|----------|
| Limits | < 60 | < 25 | < 1000 | < 75 | < 60 | < 90 | < 60 | < 500 |
| Sample 1 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 2 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 3 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 4 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 5 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 6 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 7 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |

All concentrations expressed in milligrams per kilogram and unadjusted unless otherwise stated "<" means "less than"

Remark:

- 1. Method for determination of each soluble element present
 - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Spectroscopy.

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.2 TOTAL LEAD CONTENT IN SUBSTRATE MATERIALS:

Method: CPSC-CH-E1002-08.1 Section II A (samples 1 to 7)

Criteria: The submitted sample(s) must not exceed the Total Lead Limits 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) & ASTM F963-11 Section 4.3.5.2 (2)(a)

Results:

 Sample 1
 Sample 2
 Sample 3
 Sample 4

 Total Lead
 <10.0</td>
 <10.0</td>
 <10.0</td>

<u>Sample 5</u> <u>Sample 6</u> <u>Sample 7</u> Total Lead <10.0 <10.0 <10.0

All concentrations expressed in milligrams per kilogram "<" means "less than"

2.3 TOTAL LEAD CONTENT IN SUBSTRATE MATERIALS:

Method: CPSC-CH-E1002-08.1 Section II A (samples 1 to 7)

Criteria: The submitted sample(s) must not exceed the Total Lead Limits of 200 milligrams per

kilogram for substrate materials as per Client's specification with reference to California

Proposition 65

Results:

All concentrations expressed in milligrams per kilogram "<" means "less than"

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.4 TOTAL LEAD CONTENT: IN-HOUSE METHOD WITH REFERENCE TO SLIHT004

Criteria: Accessible part(s) of the following items shall not have total lead content greater than 90 milligrams per kilogram as per Canada Consumer Products Containing Lead (Contact with Mouth) Regulations (SOR/2010-273):

- (a) products, other than kitchen utensils, that are brought into contact with the user's mouth in the course of normal use;
- (b) products intended for use in play or learning by children under three years of age.

Results:

| Total Lead | <u>Sample 1</u> <10.0 | <u>Sample 2</u> <10.0 | <u>Sample 3</u> <10.0 | <u>Sample 4</u> <10.0 |
|------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Total Lead | <u>Sample 5</u> <10.0 | <u>Sample 6</u> <10.0 | Sample 7 <10.0 | |

All concentrations expressed in milligrams per kilogram "<" means "less than"

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.5 MIGRATION OF CERTAIN ELEMENTS: EN71-3: 1994 with Amendments A1: 2000 & AC: 2002 Section 8.2 for samples 1 to 7

| Results: | | | | | | | | |
|----------|----------|---------|--------|---------|----------|-------|---------|----------|
| Elements | Antimony | Arsenic | Barium | Cadmium | Chromium | Lead | Mercury | Selenium |
| Limits | < 60 | < 25 | < 1000 | < 75 | < 60 | < 90 | < 60 | < 500 |
| Sample 1 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 2 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 3 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 4 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 5 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 6 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |
| Sample 7 | < 6.0 | < 2.5 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 | < 6.0 |

All concentrations expressed in milligrams per kilogram and unadjusted unless otherwise stated "<" means "less than"

Remark:

- 1. Method for determination of each soluble element present
 - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Spectroscopy.

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.6 HEAVY METAL CONTENT TEST: Client's Specification with reference to 2009/48/EC

| Results: | | | | | |
|--------------|--------------------|----------|----------|----------|----------|
| Elements | <u>Limits</u> | | | | |
| | Category III | | | | |
| | (Scraped-off | | | | |
| | <u>material)</u> | Sample 1 | Sample 2 | Sample 3 | Sample 4 |
| Aluminum | 70,000 | <1.0 | <1.0 | <1.0 | <1.0 |
| Antimony | 560 | <1.0 | <1.0 | <1.0 | <1.0 |
| Arsenic | 47 | < 0.5 | < 0.5 | < 0.5 | < 0.5 |
| Barium | 56,000 | 1.5 | <1.0 | 2.0 | <1.0 |
| Boron | 15,000 | <1.0 | <1.0 | <1.0 | <1.0 |
| Cadmium | 17 | < 0.10 | < 0.10 | < 0.10 | < 0.10 |
| Chromium (2) | | 0.040 | 0.015 | 0.020 | 0.020 |
| | 460 (Chromium III) | | | | |
| | 0.2 (Chromium VI) | | | | |
| Cobalt | 130 | <1.0 | <1.0 | <1.0 | <1.0 |
| Copper | 7,700 | <1.0 | <1.0 | <1.0 | <1.0 |
| Lead | 160 | <1.0 | <1.0 | <1.0 | <1.0 |
| Manganese | 15,000 | <1.0 | <1.0 | <1.0 | <1.0 |
| Mercury | 94 | <1.0 | <1.0 | <1.0 | <1.0 |
| Nickel | 930 | <1.0 | <1.0 | <1.0 | <1.0 |
| Selenium | 460 | <1.0 | <1.0 | <1.0 | <1.0 |
| Strontium | 56,000 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tin | 180,000 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Organic Tin | 12 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Zinc | 46,000 | <1.0 | <1.0 | <1.0 | <1.0 |

All concentrations expressed in milligrams per kilogram and unadjusted unless otherwise stated "<" means "less than"

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.6 HEAVY METAL CONTENT TEST : Client's Specification with reference to 2009/48/EC

| Results: | | | | |
|--------------|--------------------|----------|----------|----------|
| Elements | <u>Limits</u> | | | |
| | Category III | | | |
| | (Scraped-off | | | |
| | material) | Sample 5 | Sample 6 | Sample 7 |
| Aluminum | 70,000 | <1.0 | <1.0 | <1.0 |
| Antimony | 560 | <1.0 | <1.0 | <1.0 |
| Arsenic | 47 | < 0.5 | < 0.5 | < 0.5 |
| Barium | 56,000 | 1.0 | <1.0 | < 1.0 |
| Boron | 15,000 | <1.0 | <1.0 | < 1.0 |
| Cadmium | 17 | < 0.10 | < 0.10 | < 0.10 |
| Chromium (2) | | 0.015 | 0.015 | 0.015 |
| | 460 (Chromium III) | | | |
| | 0.2 (Chromium VI) | | | |
| Cobalt | 130 | <1.0 | <1.0 | <1.0 |
| Copper | 7,700 | <1.0 | <1.0 | <1.0 |
| Lead | 160 | <1.0 | <1.0 | <1.0 |
| Manganese | 15,000 | <1.0 | <1.0 | <1.0 |
| Mercury | 94 | <1.0 | <1.0 | <1.0 |
| Nickel | 930 | <1.0 | <1.0 | < 1.0 |
| Selenium | 460 | <1.0 | <1.0 | < 1.0 |
| Strontium | 56,000 | <1.0 | <1.0 | < 1.0 |
| Tin | 180,000 | < 0.05 | < 0.05 | < 0.05 |
| Organic Tin | 12 | < 0.2 | < 0.2 | < 0.2 |
| Zinc | 46,000 | <1.0 | 2.0 | <1.0 |

All concentrations expressed in milligrams per kilogram and unadjusted unless otherwise stated "<" means "less than"

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

Remark:

- 1. Soluble migrated elements are determined by ICP-MS (Induced Couple Plasma Mass Spectrometry)
- 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 should be confirmed by further speciation techniques.
 - #: The chromium VI content is determined by LC-ICP-MS
- 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. Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis with derivatisation.

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.7 TOTAL CADMIUM CONTENT: RESTRICTION OF CADMIUM ACCORDING TO REGULATION (EC) NO. 1907/2006 ON REACH ANNEX XVII ITEM NO 23 AS AMENDED BY COMMISSION REGULATION (EC) NO. 552/2009 AND COMMISSION REGULATION (EU) NO. 494/2011 & IN-HOUSE METHOD WITH REFERENCE TO SLIHT004

Results:

| Element | Total Cadmium |
|----------|----------------------|
| Limit | $< 100 (< 1000)^{a}$ |
| Sample 1 | <10.0 |
| Sample 2 | <10.0 |
| Sample 3 | <10.0 |
| Sample 4 | <10.0 |
| Sample 5 | <10.0 |
| Sample 6 | <10.0 |
| Sample 7 | <10.0 |
| Sample 8 | < 3.0 |
| Sample 9 | < 3.0 |

All concentrations expressed in milligrams per kilogram "<" means "less than"

^aLimit for paints and paints on painted articles

Remark : 1. The limit is not applicable to composite sample.

2. Composite tests were performed.

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.8 NERC (FORMERLY ORGANIZATION: CSG) MODEL LEGISLATION - TOXICS IN PACKAGING CLEARINGHOUSE (TPCH), LAST REVISED JULY 2012 AND IN-HOUSE METHOD WITH REFERENCE TO SLIHT004

Results:

| | | Hexavalent | | | Pb + Cd + Hg + |
|-----------|---------------|------------|------------|---------------|----------------|
| Elements | Total Cadmium | Chromium | Total Lead | Total Mercury | Cr(VI) |
| Limits | | | | | < 100 |
| Sample 10 | < 3.0 | < 5.7 | <10.0 | <10.0 | <28.7 |
| Sample 11 | < 3.0 | < 3.0 | <10.0 | <10.0 | <26.0 |

All concentrations expressed in milligrams per kilogram)
"<" means "less than"

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.9 HEAVY METALS REQUIREMENTS ON PACKAGING AND PACKAGING WASTE: 94/62/EC, ARTICLE 11 & IN-HOUSE METHOD WITH REFERENCE TO SLIHT004

Requirement : The sum of concentration levels of lead, cadmium, mercury and hexavalent chromium

present in packaging or packaging components shall not exceed 100 milligrams per

kilogram by weight.

Results : Multi color paper board (box) + Multi color paper card (hangtag)

Sum of concentration level of lead, cadmium, mercury and hexavalent chromium is

less than 28.7 milligrams per kilogram.

White plastic (fastener)

Sum of concentration level of lead, cadmium, mercury and hexavalent chromium is

less than 26.0 milligrams per kilogram.

2.10 HEAVY METALS IN BATTERIES: IN-HOUSE METHOD WITH REFERENCE TO SLIHT002

Criteria: The submitted samples must meet the Total Mercury Limit of 5ppm as per client's

specification

Results:

Samples Average Mercury content

(ppm)

Silver button cell LR 1130 <0.5

"<" means "less than"

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.11 HEAVY METALS IN BATTERIES ACCORDING TO 2006/66/EC, ARTICLES 4 & 21 AND SUBSEQUENT AMENDMENTS

: IN-HOUSE METHOD WITH REFERENCE TO SLIHT002

Results:

| | Limits of 2006/66/EC and subsequent | Silver button cell LR 1130 |
|---------------|-------------------------------------|----------------------------|
| | amendments | |
| Total Cadmium | <0.002% | <0.0002% |
| | (<20 ppm) | (<2 ppm) |
| Total Lead | <0.004% | <0.0004% |
| | (<40 ppm) | (< 4 ppm) |
| Total Mercury | <0.0005%* | <0.0005% |
| | (<5 ppm) | (< 0.5 ppm) |

^{*}Button cells and batteries composed of button cells with a mercury content of no more than 2 % by weight shall be exempted.

"<" means "less than"
"ppm" means "parts per million"

Remark:

- 1. Marking must be included indications as to the following points
 - a) Separate collection,
 - b) Where appropriate, recycling,
 - c) The heavy metal content with chemical symbol of Pb, Cd and Hg if the battery/accumulator contains more than 0.004% lead, 0.002% cadmium and 0.0005%* mercury.

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.12 TOTAL PHTHALATE TEST: The U.S. Public Law 110 - 314, Consumer Product Safety Improvement Act of 2008, Title I, Section 108 & California Proposition 65

Test Method : CPSC-CH-C1001-09.3 (Composite test)

Requirement : DEHP, DBP, BBP or DNHP content shall not individually be more than 0.1% by

weight in any children's toys and child care articles.

DINP, DIDP or DNOP content shall not individually be more than 0.1% by weight in

any children's toys that can be placed in a child's mouth and child care articles.

Results :

| <u>Plasticisers</u> | Pink plastic (ball) + Yellow | Blue plastic (ball) + Orange |
|---------------------|--|------------------------------|
| | <pre>plastic (ball) + Purple plastic</pre> | plastic (ball) |
| | <u>(ball)</u> | |
| | | |
| DBP | <0.015% | < 0.015% |
| BBP | < 0.015% | < 0.015% |
| DEHP | < 0.015% | < 0.015% |
| DNOP | < 0.015% | < 0.015% |
| DINP | <0.015% | < 0.015% |
| DIDP | <0.015% | < 0.015% |
| DNHP | < 0.015% | < 0.015% |

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REPORT NO. : A20121352 DATE : Apr.19,2013

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weight in any children's toys and child care articles.

DINP, DIDP or DNOP content shall not individually be more than 0.1% by weight in

any children's toys that can be placed in a child's mouth and child care articles.

Results :

Plasticisers <u>Green plastic (ball) + Clear</u>

plastic (inner ball)

 DBP
 <0.015%</td>

 BBP
 <0.015%</td>

 DEHP
 <0.015%</td>

 DNOP
 <0.015%</td>

 DINP
 <0.015%</td>

 DIDP
 <0.015%</td>

 DNHP
 <0.015%</td>

Key : DBP = Di-butyl phthalate

BBP = Butyl-benzyl phthalate DEHP = Di-(2-ethyl-hexyl) phthalate

DNOP = Di-n-octyl phthalate
DINP = Di-iso-nonyl phthalate
DIDP = Di-iso-decyl phthalate
DNHP = Di-n-hexyl phthalate

< = Less than

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.13 TOTAL PHTHALATE TEST : Canada Phthalates Regulations (SOR/2010-298) & Client's Specification

Test Method : CPSC-CH-C1001-09.3 (Composite test)

Requirement : The vinyl in a toy or child care article must contain not more than 1 000 mg/kg (0.1%)

of Di-(2-ethylhexyl) phthalate (DEHP), Di-butyl 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 1 000 mg/kg (0.1%) of Di-iso-nonyl phthalate (DINP), Di-iso-decyl

phthalate (DIDP) or Di-n-octyl phthalate (DNOP)

Di-n-hexyl phthalate (DNHP) content shall not be more than 1000 mg/kg (0.1%) as

per Client's specification.

Results :

| <u>Plasticisers</u> | Pink plastic (ball) + Yellow | Blue plastic (ball) + Orange |
|---------------------|---------------------------------|------------------------------|
| | plastic (ball) + Purple plastic | plastic (ball) |
| | <u>(ball)</u> | |
| DBP | <0.015% | <0.015% |
| BBP | <0.015% | <0.015% |
| DEHP | < 0.015% | < 0.015% |
| DNOP | <0.015% | < 0.015% |
| DINP | <0.015% | < 0.015% |
| DIDP | <0.015% | < 0.015% |
| DNHP | <0.015% | < 0.015% |

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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 1 000 mg/kg (0.1%) of Di-iso-nonyl phthalate (DINP), Di-iso-decyl

phthalate (DIDP) or Di-n-octyl phthalate (DNOP)

Di-n-hexyl phthalate (DNHP) content shall not be more than 1000 mg/kg (0.1%) as

per Client's specification.

Results :

| Plasticisers | <u>Green plastic (ball) + Clear</u> |
|--------------|-------------------------------------|
| | plastic (inner ball) |

| < 0.015% |
|----------|
| < 0.015% |
| < 0.015% |
| < 0.015% |
| < 0.015% |
| < 0.015% |
| < 0.015% |
| |

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.13 TOTAL PHTHALATE TEST : Canada Phthalates Regulations (SOR/2010-298) & Client's Specification

Key : DBP = Di-butyl phthalate

BBP = Butyl-benzyl phthalate DEHP = Di-(2-ethyl-hexyl) phthalate

DNOP = Di-n-octyl phthalate
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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.14 TOTAL PHTHALATE TEST: RESTRICTION OF PHTHALATES ACCORDING TO REGULATION (EC) NO. 1907/2006 ON REACH ANNEX XVII ITEM NO 51/52 AS AMENDED BY COMMISSION REGULATION (EC) NO. 552/2009 & Client's Specification

Test Method : THF extraction followed by GC-MSD analysis (Composite test).

Requirement : DEHP, DBP, BBP & DNHP content shall not be more than 0.1% by weight in toys

and children article.

DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and

children article which can be placed in the mouth by children.

Results :

| <u>Plasticisers</u> | Pink plastic (ball) + Yellow | Blue plastic (ball) + Orange |
|---------------------|---------------------------------|------------------------------|
| | plastic (ball) + Purple plastic | plastic (ball) |
| | <u>(ball)</u> | |
| | 0.04.704 | 0.04.70/ |
| DBP | < 0.015% | < 0.015% |
| BBP | < 0.015% | < 0.015% |
| DEHP | < 0.015% | < 0.015% |
| DNOP | < 0.015% | < 0.015% |
| DINP | < 0.015% | < 0.015% |
| DIDP | < 0.015% | < 0.015% |
| DNHP | < 0.015% | < 0.015% |
| | | |

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

2.14 TOTAL PHTHALATE TEST: RESTRICTION OF PHTHALATES ACCORDING TO REGULATION (EC) NO. 1907/2006 ON REACH ANNEX XVII ITEM NO 51/52 AS AMENDED BY COMMISSION REGULATION (EC) NO. 552/2009 & Client's Specification

Test Method : THF extraction followed by GC-MSD analysis (Composite test).

Requirement : DEHP, DBP, BBP & DNHP content shall not be more than 0.1% by weight in toys

and children article.

DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and

children article which can be placed in the mouth by children.

Results :

Plasticisers <u>Green plastic (ball) + Clear</u>

plastic (inner ball)

 DBP
 <0.015%</td>

 BBP
 <0.015%</td>

 DEHP
 <0.015%</td>

 DNOP
 <0.015%</td>

 DINP
 <0.015%</td>

 DIDP
 <0.015%</td>

 DNHP
 <0.015%</td>

Key : DBP = Di-butyl phthalate

BBP = Butyl-benzyl phthalate DEHP = Di-(2-ethyl-hexyl) phthalate

DNOP = Di-n-octyl phthalate
DINP = Di-iso-nonyl phthalate
DIDP = Di-iso-decyl phthalate
DNHP = Di-n-hexyl phthalate

< = Less than

Date(s) of test(s) conducted : April 5 - 15, 2013

******************************** End of Page 32 of 45 * ***********************

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

3.0 EN 55014-1: 2006 + A1: 2009 + A2: 2011 and EN 55014-2: 1997 + A1: 2001 + A2: 2008

Test and results of emission measurement according to EN 55014-1 – EMC

Measurement of radiated disturbance (30MHz - 1GHz) according to EN55014-1

General information about the test:

| Instruments: | | |
|---------------------|-----------------|--------------|
| Description | Manufacturer | Model number |
| Bilog Antenna | Schaffner | CBL6112B |
| EMI Test Receiver | Rohde & Schwarz | ESCI |
| Coaxial Cable (10m) | Schaffner | RG213/U |
| Coaxial Cable (3m) | Suhner | RG214/U |

Environmental conditions:

| Parameter | | Recorded value | | |
|-----------|----------------------|----------------|-----|--|
| | Ambient temperature: | 25 | ° C | |
| | Relative humidity: | 70 | % | |

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REPORT NO. : A20121352 DATE : Apr.19,2013

Test Results

Information concerning the test:

Description:

The Quasi-peak measurements were performed on the test site at 3m test distance from the antenna to the test sample with the sample operating continuously. Distance factors had been used to normalize the measured data for determining compliance.

Protocol: Light on

| Frequency (MHz) | Polarity (H/V) | Reading at 3m (dBµV/m) | Normalised reading at 10m (dBµV/m) | Limit at 10m (dBµV/m) | Margin (dB) |
|-----------------|-------------------|------------------------|------------------------------------|--------------------------|----------------|
| 47.330 | Н | 27.9 | 17.4 | 30.0 | - 12.6 |
| 79.685 | Н | 24.5 | 14.0 | 30.0 | - 16.0 |
| 113.146 | Н | 30.5 | 20.0 | 30.0 | - 10.0 |
| 121.369 | Н | 30.7 | 20.2 | 30.0 | - 9.8 |
| 150.048 | Н | 29.8 | 19.3 | 30.0 | - 10.7 |
| 153.771 | Н | 29.0 | 18.5 | 30.0 | - 11.5 |
| 183.684 | Н | 28.7 | 18.2 | 30.0 | - 11.8 |

Remark: All other readings in the frequency range mentioned in the standard were investigated, and found them well below the readings resented in the table shown above.

Result:

PASS
No Emission was detected higher than the specified limit

| Uncertainty | | | | | | | |
|---|-------------|------------------------|-------|--------|--|--|--|
| The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of | | | | | | | |
| confidence of approxim | nately 95%. | | | | | | |
| | | | | | | | |
| 30MHz – 200MHz | Horizontal | Expanded Uncertainty U | k = 2 | 4.83dB | | | |
| 30MHz - 200MHz | Vertical | Expanded Uncertainty U | k = 2 | 4.84dB | | | |
| 200MHz – 1GHz | Horizontal | Expanded Uncertainty U | k = 2 | 4.66dB | | | |
| 200MHz – 1GHz | Vertical | Expanded Uncertainty U | k = 2 | 4.65dB | | | |

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

Test and results of immunity measurement according to EN 55014-2 – EMC Electrostatic discharge (ESD) according to IEC 61000-4-2

General information about the test:

| Instruments: | | |
|-------------------|--------------|--------------|
| Description | Manufacturer | Model number |
| ESD simulator set | Schaffner | NSG435 |

Environmental conditions:

| Parameter | Rated value | Recorded value |
|-----------------------|----------------|----------------|
| Ambient temperature: | 15 °C - 35 °C | 28 ° C |
| Atmospheric pressure: | (86 – 106) kPa | 101.2 kPa |
| Relative humidity: | 30 % - 60 % | 49 % |

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REPORT NO. : A20121352 DATE : Apr.19,2013

Test Results

| Information concerning the | est: |
|----------------------------|------|
| Performance criteria: | В |

| Protocol: |
|-----------|
|-----------|

| Application of ESD | Point of Discharge | Appl | | | Applied Voltage (kV) | | No. of Discharge | Result / Comment |
|--------------------------|-----------------------------------|------|----------|----|----------------------|------|---------------------|------------------|
| Indirect Horizontally | Left, right, front, back | | +4 | | 10 | PASS | | |
| Indirect Horizontally | Left, right, front, back | | -4 | | 10 | PASS | | |
| Indirect Vertically | Left, right, front, back | +4 | | 10 | PASS | | | |
| Indirect Vertically | Left, right, front, back | -4 | | 10 | PASS | | | |
| Direct Air | Refer to description on next page | +2 | +2 +4 +8 | | 10 | PASS | | |
| Direct Air | Refer to description on next page | -2 | -4 | -8 | 10 | PASS | | |
| Direct Contact | Refer to description on next page | | +4 | | N/A | N/A | | |
| Direct Contact | Refer to description on next page | | -4 | | N/A | N/A | | |

| Result: | PASS |
|---------|--|
| | The submitted sample met the requirement of Electrostatic Discharge Test |
| | with criterion B. |

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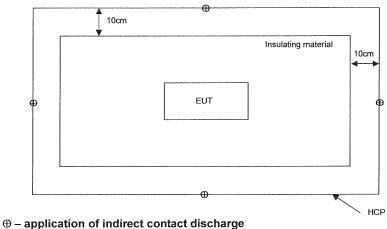
REPORT NO. : A20121352 DATE : Apr.19,2013

Test Results

Electrostatic discharge (ESD) according to IEC 61000-4-2 (con'd)

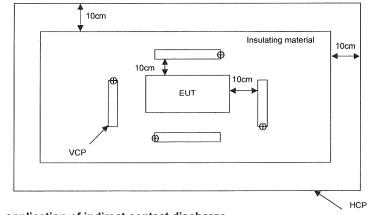
Details of indirect discharges applied:

Horizontal Coupling Plane (0.8 m x 1.6 m)



T - application of munect contact discharge

Vertical Coupling Plane (0.5 m x 0.5 m)



⊕ – application of indirect contact discharge

********************************* End of Page 37 of 45 * ***********************

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REPORT NO. : A20121352 DATE : Apr.19,2013

Test Results

Electrostatic discharge (ESD) according to IEC 61000-4-2 (con'd)

Details of direct discharges applied:

Application of direct contact discharges and direct air discharges

Description of ESD Test

Contact discharge is applied to the following positions of EUT:

- N/A

Air discharge is applied to the following positions of EUT:

- the insulated case
- gap located at the insulated case

Date(s) of test(s) conducted : April 3 - 9, 2013

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

4.0 2011/65/EU - RESTRICTION OF HAZARDOUS SUBSTANCES (RoHS) SCREENING METHOD OF LEAD, CADMIUM, MERCURY, CHROMIUM AND BROMINE USING ENERGY-DISPERSIVE X-RAY FLUORESCENCE SPECTROSCOPY

| DESCRIPTION | TEST ELEMENT | | | | | CONCLUSIO |
|-------------|--------------|--|--|---------|---------|-----------|
| | LEAD | CADMIUM | MERCURY | CHROMIU | BROMIN | N |
| | (mg/kg) | (mg/kg) | (mg/kg) | M | E | |
| | | | | (mg/kg) | (mg/kg) | |
| TRANSLUCENT | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| YELLOW SOFT | | | | | | |
| | | | | | | |
| | | | | | | |
| | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| | | | | | | |
| | | | | | | |
| | 700 | | 700 | ~~~ | 200 | 7.46 |
| | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| | | | | | | |
| - | | | | | | |
| | . 500 | . 50 | . 500 | . 700 | . 200 | DAGG |
| | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| | | | | | | |
| | | | | | | |
| | . 500 | . 50 | . 500 | . 500 | . 200 | PASS |
| | < 300 | < 30 | < 300 | < 300 | < 300 | PASS |
| | | | | | | |
| - | | | | | | |
| | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| | < 300 | < 30 | < 300 | < 500 | < 300 | 1 A33 |
| | | | | | | |
| | | | | | | |
| | TRANSLUCENT | TRANSLUCENT YELLOW SOFT PLASTIC HOUSING TRANSLUCENT BLUE SOFT PLASTIC HOUSING TRANSLUCENT PINK SOFT PLASTIC HOUSING TRANSLUCENT PURPLE SOFT PLASTIC HOUSING TRANSLUCENT PURPLE SOFT PLASTIC HOUSING TRANSLUCENT ORANGE SOFT PLASTIC HOUSING TRANSLUCENT SOOO TRANSLUCENT GREEN SOFT PLASTIC HOUSING TRANSLUCENT SOOO TRANSLUCENT ORANGE SOFT PLASTIC | TRANSLUCENT YELLOW SOFT PLASTIC HOUSING TRANSLUCENT PLASTIC HOUSING TRANSLUCENT PLASTIC HOUSING TRANSLUCENT PINK SOFT PLASTIC HOUSING TRANSLUCENT PLASTIC HOUSING TRANSLUCENT PLASTIC HOUSING TRANSLUCENT PURPLE SOFT PLASTIC HOUSING TRANSLUCENT PURPLE SOFT PLASTIC HOUSING TRANSLUCENT TRANSLUCENT FURANSLUCENT FURANSLUCENT GREEN SOFT PLASTIC HOUSING TRANSLUCENT GREEN SOFT PLASTIC HOUSING TRANSLUCENT ORANGE SOFT PLASTIC | LEAD | LEAD | LEAD |

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

| NO | DESCRIPTION | | CONCLUSIO | | | | |
|----|----------------------|-------------|-----------|---------|-----------|---------|-------|
| | | LEAD | CADMIUM | MERCURY | CHROMIU | BROMIN | N |
| | | (mg/kg) | (mg/kg) | (mg/kg) | M | Е | |
| | | | | | (mg/kg) | (mg/kg) | |
| 7 | TRANSPARENT | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| | CLEAR SOFT | | | | | | |
| | PLASTIC | | | | | | |
| | HOUSING | | | | | | |
| 8 | SILVERY | < 500 | < 50 | < 500 | > 500 | | PASS |
| | METAL PLATE | | | | Cr VI | | |
| | | | | | Spot Test | | |
| | | | | | Negative* | | |
| 9 | SILVERY | < 500 | < 50 | < 500 | < 500 | | PASS |
| | METAL SPRING | | | | | | |
| 10 | SILVERY | < 500 | < 50 | < 500 | > 500 | | PASS |
| | METAL PLATE | | | | Cr VI | | |
| | | | | | Spot Test | | |
| | (4) | 7 00 | | 700 | Negative* | | 7.400 |
| 11 | (A) | < 500 | < 50 | < 500 | < 500 | ## | PASS |
| | TRANSPARENT | | | | | | |
| | CLEAR PLASTIC | | | | | | |
| | LED LEDV | 500 | | 700 | 700 | | DAGG |
| | (B) SILVERY | < 500 | < 50 | < 500 | < 500 | | PASS |
| 12 | METAL LEG | < 500 | < 50 | < 500 | < 500 | < 300 | DACC |
| 12 | BROWN PCB | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| 13 | BOARD WHITE EPOXY | < 500 | < 50 | < 500 | < 500 | < 300 | PASS |
| 13 | ON PCB BOARD | < 300 | < 30 | < 300 | < 300 | < 300 | rass |
| 14 | | < 500 | < 50 | < 500 | < 500 | | PASS |
| 14 | SILVERY SOLDER | < 300 | < 30 | < 300 | < 300 | | PASS |
| | SOLDER | | | | | | |

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

LIMIT OF RESTRICTION OF HAZARDOUS SUBSTANCES 2011/65/EU

| HAZARDOUS SUSTANCES | LIMIT |
|--------------------------------|---------|
| | (mg/kg) |
| LEAD | 1000 |
| CADMIUM | 100 |
| MERCURY | 1000 |
| HEXAVALENT CHROMIUM (CrVI) | 1000 |
| POLYBROMINATED BIPHENYLS (PBB) | 1000 |
| POLYBROMAINED DIPHENYLETHERS | 1000 |
| (PBDE) | |

REMARKS:

* CrVI SPOT TEST WAS PERFORMED BY THE TEST METHOD ACCORDING TO ANNEX B, BS EN 62321:2009. POSITIVE RESULTS INDICATE HEXAVALENT CHROMIUM (CrVI) ON SURFACE.

BROMINATED FLAME RETARDANTS (PBB & PBDE) TEST WAS PERFORMED WITH REFERENCE TO TEST METHOD: BS EN 62321:2009 AND QUANTITATION WITH GC-MS. PLEASE REFER TO RESULTS IN SECTION 2.

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

5.0 2011/65/EU - RESTRICTION OF HAZARDOUS SUBSTANCES (RoHS) - BROMINATED FLAME RETARDANTS (PBB & PBDE) TEST:

TEST METHOD: BS EN 62321:2009 AND QUANTITATION WITH GC-MS

| POLYBROMINATED BIPHENYLS (PBBs) | SAMPLE |
|---------------------------------------|--------|
| | (11-A) |
| REPORTING LIMIT | 10 |
| RoHS REQUIREMENTS | 1000 |
| MONOBROMOBIPHENYL | <10 |
| DIBROMOBIPHENYL | <10 |
| TRIBROMOBIPHENYL | <10 |
| TETRABROMOBIPHENYL | <10 |
| PENTABROMOBIPHENYL | <10 |
| HEXABROMOBIPHENYL | <10 |
| HEPTABROMOBIPHENYL | <10 |
| OCTABROMOBIPHENYL | <10 |
| NONABROMOBIPHENYL | <10 |
| DECABROMOBIPHENYL | <10 |
| TOTAL CONCENTRATIONS OF THE ABOVE PBB | <10 |
| COMPOUNDS | |

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REPORT NO. : A20121352 DATE : Apr.19,2013

TEST RESULTS:

| POLYBROMINATED DIPHENYL ETHERS (PBDEs) | |
|--|------|
| REPORTING LIMIT | 10 |
| RoHS REQUIREMENTS | 1000 |
| MONOBROMODIPHENYL ETHER | <10 |
| DIBROMODIPHENYL ETHER | <10 |
| TRIBROMODIPHENYL ETHER | <10 |
| TETRABROMODIPHENYL ETHER | <10 |
| PENTABROMODIPHENYL ETHER | <10 |
| HEXABROMODIPHENYL ETHER | <10 |
| HEPTABROMODIPHENYL ETHER | <10 |
| OCTABROMODIPHENYL ETHER | <10 |
| NONABROMODIPHENYL ETHER | <10 |
| DECABROMODIPHENYL ETHER | <10 |
| TOTAL CONCENTRATIONS OF THE ABOVE PBDE | <10 |
| COMPOUNDS | |

ALL CONCENTRATIONS EXPRESS IN PPM (PART PER MILLION)
"<" MEANS "LESS THAN"

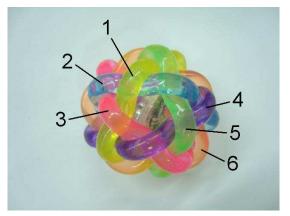
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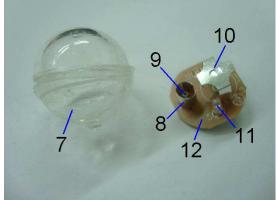
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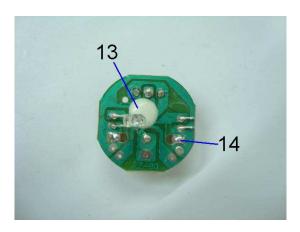


REPORT NO. : A20121352 DATE : Apr.19,2013

SAMPLE IDENTIFICATION(S) AND PHOTO(S)







Date(s) of test(s) conducted : April 5 – 16, 2013

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REPORT NO. : A20121352 DATE : Apr.19,2013

Product Photo(s):



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TERMS AND CONDITIONS OF SERVICE

UL VS Hong Kong Limited ("UL VS") undertakes to provide services ("Work(s)") to its Customer subject to the terms and conditions ("Terms") contained herein.

The term of limitation of liability contained herein has been conspicuously marked to draw to the attention of the Customer. The Customer is advised by UL VS to take separate legal advice and is fully aware of the meaning and the legal significance of this term. The Customer agrees that this term is integral part of this Agreement.

COMPUTATION OF CHARGES AND PAYMENT

- (a) Consulting time shall be charged on a daily basis.

 (b) Where the personnel of UL VS are assigned to its Customer for any in-house projects, the Customer shall be billed on an hourly basis on the compensation rates of its personnel.

 Disbursements incurred on the Customer's behalf such as expenditure for communications, transportation, travel, purchase of any materials, tools, equipment, components or parts which are directly related to the Work(s) shall be billed at costs and shall additionally include UL VS's reasonable handling charge at the discretion of UL VS.
- Where in the opinion of UL VS the Work(s) are time consuming entailing the use of special equipment and disbursements, the Customer shall be charged on an "equipment-hour" basis on the time spent. Payments shall be made in Hong Kong Dollars at UL VS's address or at such other address and in such manner as UL VS may from time to time specify. Payment made by post shall be at the risk
- 1.5 The Customer undertakes during the continuance of this Agreement:

 - (a) to punctually pay all billings rendered to the Customer from time to time;
 (b) unless otherwise agreed in writing, payment is to be made within seven (7) days from the date of Invoice or Debit Note;
 (c) where the Customer shall fail to pay within time, UL VS shall charge interest on overdue invoices at the rate of 2% per month;
- (d) UL VS shall have a lien on any goods of the Customer until payment but the exercise of such lien shall not prevent interest from accruing.

 If the Customer shall fail to pay UL VS for any reason under Clause 1.5 or if the Customer shall commit a breach of any of its obligation under this Agreement or if a receiver of the Customer is appointed or if any resolution or petition to wind up the Customer's business shall be passed or presented except for the purpose of reconstruction), UL VS may without prejudice to its other rights either suspend or terminate the Agreement and in such an event UL VS may also suspend or terminate any other existing contracts without being liable to damages.

OBLIGATIONS OF THE CUSTOMER

- SATIONS OF THE CUSTOMER
 If the Customer intends to make any change(s) to the Work(s) hereunder or assign any other work to UL VS prior to the completion of Work(s), such a change or new assignment shall only be effective in writing between both of the parties. If UL VS suffers from any loss or damage due to such a change or new assignment, the Customer shall compensate UL VS for such losses and damages.

 If the Work(s) undertaken by UL VS hereunder requires any assistance from the Customer, the Customer shall be obliged to provide all necessary and reasonable assistance which UL VS may deem fit. If the Work(s) undertaken by UL VS hereunder cannot be completed due to the Customer's failure to perform its obligation to assist, UL VS shall have the right to demand the Customer to perform its obligation within a reasonable period of time and may appropriately extend the time limit for UL VS to complete its Work(s). If upon the expiration of such reasonable time period the Customer still fails to perform its obligation to assist, UL VS may terminate this Agreement, without prejudice to any other rights of UL VS hereunder or under any applicable laws and regulations.

Customer shall abide by all applicable regulations when shipping samples to UL VS. Improper shipping may result in additional charges for costs incurred by UL VS: (a) to identify samples to UL VS; and (b) damages done to UL VS personnel or property as a result of improper packaging, labeling or omission of identifying documents. UL VS shall have the right to refuse receipt of any shipment that, in its discretion, is unsafe or has been shipped improperly. Any costs associated by refusal to accept shipment under this clause are the sole responsibility of the Customer. The Customer shall indemnify and hold harmless UL VS for any and all damages, expenses, fines, judgments, liabilities and costs (including attorney's fee) incurred by UL VS and arising from the improper packaging or shipment of the samples by

- Any invention made in the performance of Work(s) for the Customer by UL VS within the field of Work(s) undertaken for the Customer shall belong to the Customer.

 UL VS's use of the aforesaid inventions shall be free of any royalty fees provided that the use of such inventions are confined to the performance of Work(s) for the Customer.

CONFIDENTIAL TREATMENT OF INFORMATION

- Unless otherwise specifically agreed between the parties, the Work(s) rendered by UL VS to the Customer shall be on a non-exclusive best-efforts basis.

 It is explicitly agreed by UL VS and the Customer that all technical information (whether contained in models, drawings, reproductions of drawings, written reports, letters, memoranda or notes or in any other form) shall be kept strictly confidential by UL VS for the purposes of this Agreement and UL VS shall at all times use all reasonable efforts to prevent disclosure to third parties of any part thereof unless UL VS shall have first obtained the written consent of the Customer specifically authorizing such disclosure PROVIDED ALWAYS AND IT IS MUTUALLY AGREED that the confidentiality shall extend for a period of five (5) years from the date of completion of its Work(s) and PROVIDED INTHER that UL VS shall not be liable under this clause if through no fault of UL VS the information is generally known to UL VS; or is independently developed by UL VS without a materials provided by the Customer; or the information is necessary for performance by UL VS under this Agreement; or is disclosed in accordance with a judgment or order issued by a competent court of any jurisdiction to which the Terms are subject, or with an order, notice or requirement issued by a convernmental authority; or is disclosed in the certification or accreditation of accreditation or decreditation of the content of the certification or accreditation or decreditation or decred governmental authority; or is disclosed to the certification or accreditation bodies with which the information are relevant to the scope of certification or accreditation in order to assess UL VS's competence
- and compliance with the relevant certification or accreditation or iteria.

 UL VS undertakes that the identity of its Customers and the nature of Work(s) rendered shall be kept confidential unless the Customer agrees in writing to their release PROVIDED ALWAYS that UL VS shall not be liable under this clause if through no fault act or failure on its part the identity of the Customer is generally known to the public.

DATA AND DOCUMENT RETENTION

- AND DOCUMENT RETENTION

 (a) After the Work(s) are rendered, UL VS may retain a copy of all documents relating to the Work(s) (the "Supporting Documents") for as long as UL VS, in its sole discretion, deems fit.

 (b) Unless otherwise specified or required by the applicable law, the Supporting Documents over three (3) years of age will be automatically destroyed by UL VS without prior notice to the Customer. Should any or all Supporting Documents less than three (3) years are scheduled to be destroyed, UL VS shall give the Customer thirty (30) days written notice to the Customer's last known address of its intention to destroy the Supporting Documents. Unless the Customer request to UL VS reaching UL VS before the expiration of the said thirty (30) days seeking delivery of those documents to the Customer at the Customer's expenses, those documents shall be destroyed.

 (c) The Customer shall indemnify UL VS for any costs or expenses in responding to or opposing any subpoena, the production of any documents in Court seeking the disclosure of the said documents or any information contained therein.

SOLICITATION OF EMPLOYEES
7.1 It is mutually agreed that neither party shall solicit the employees of the other for employment or hire unless prior written consent to do so is obtained.

E-MAIL DISCLAIMER

IL DISCLAIMER

UL VS shall upon written request of the Customer send the final report(s) / result(s) hereunder by e-mail rather than by paper hard copy. UL VS considers e-mail a valuable and efficient tool, however, UL VS hereby gives cautions to the Customer that the report(s) / result(s) in electronic version may inadvertently be modified once it is in the Customer's word processing system. Further, the current e-mail transmission technology may allow for interception of message(s) and report(s) / result(s) by third parties. UL VS shall not be held responsible for these risks, which are out of its control. Should report(s) / result(s) be sent to the Customer by e-mail on its request, such a request SHALL BE DEMED TO BE AN ACCEPTANCE OF THE RISK THAT THE REPORT(S) / RESULT(S) MAY BE INTERCEPTED BY THIRD PARTIES. The Customer shall agree that the report(s) / result(s) shall be sent by UL VS unencrypted. Transmission of the report(s) / result(s) for other materials(s) requested by the Customer) via the internet or other public network shall not be considered to constitute a breach of any confidentiality or other provisions of this Agreement between UL VS and the Customer, and UL VS shall in no way be liable for any damages resulting from such a transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer for any changes made to the report(s) / result(s) after it has been transmitted. transmitted

- Subject to Clause 9.2 and notwithstanding anything contained in this Agreement, in no circumstances (except where UL VS has willfully refused to perform any of its obligations under this Agreement or under any order placed pursuant to Clause 2.1) shall UL VS be liable, in contract, tort (including negligence or breach of statutory duty) or otherwise 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 contequential admange of any nature whatsoever.

 If and to the extent that the Control of Exemption Clauses Ordinance (Cap. 71 Laws of Hong Kong) applies to this Agreement and that UL VS is held liable to the Customer, notwithstanding Clause 9.1 and
- anything contained in this Agreement, UL VS's liability to the Customer, in contract, tort (including negligence or breach of statutory duty) or howsoever otherwise arising, shall in respect of this Agreement be limited to the amount of the fee paid in respect of the specific Work which gives rise to such claim.

In the event of actual or threatened suit against UL VS in relation to the Work(s) undertaken on behalf of the Customer or in relation to any of the Products or the Trade Mark or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trade name, the Customer shall indemnify UL VS harmless from any liability, action, claim, demand, costs, charges and expenses arising therefrom or expenses including solicitors fees, counsel fees in defending such action PROVIDED ALWAYS that the Customer will alt its own election either effect any settlement or compromise or at its own expenses defend any such action or proceeding and the Customer shall pay the costs of any settlement or compromise effected.

The accompanying proposal is valid for a period of ninety (90) days from the date of the proposal unless extended in writing by UL VS. Upon the acceptance of such proposal, this Terms shall form part of this Agreement with the Customer and notwithstanding any prior discussions or prior oral or written agreements to the contrary, the Terms herein shall be applicable and take precedence over any conflicting terms contained in any documents submitted by the Customer.

MISCELLANEOUS PROVISIONS

- Any provision of this Agreement prohibited by or regarded as unlawful or unenforceable under any applicable law actually applied by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement and rendered ineffective so far as is possible without modifying the remaining provisions of this Agreement. Where however the provisions of any such applicable law may be waived, they are hereby waived by the parties hereto to the full extent permitted by such law to the end that this Agreement shall be valid and binding agreement enforceable in accordance with the Terms. A certificate signed by any officer of UL VS as to the amount due from the Customer hereunder at the date of such certificate shall, in the absence of manifest error, be conclusive evidence of the amount due. Nothing in this Agreement shall be considered to form a partnership between the parties. No party shall represent that it acts as agent for another or has any capacity to bind another in any contractual or
- other arrangements.
- Save as herein otherwise provided any notice required to be given hereunder shall be sufficiently given if given in writing or by facsimile, email, internet or other possible means to the last known postal address or fax number or email address of the addresses and every notice shall be deemed to have been received and given at the time when in the course of transmission it should have been delivered at the address or fax number or email address to which it was sent.
- This report or certificate does not relieve seller(s) / supplier(s) from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice the Customer's right to claim towards seller(s) / supplier(s) for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit.

This Agreement and the rights and obligations of the parties shall in all respects be governed, construed, interpreted and operated in accordance with the Laws and Regulations of Hong Kong.