

## TEST REPORT

Applicant: Qbi Globe INC.  
10F-3, No. 530, Yingcai Rd., West Dist.  
Taichung City 40360, Taiwan (R.O.C.)

Number : TWNH00097667

Issue Date : Apr 11, 2023

### Sample Description:

One (1) Group of Submitted Samples Said To Be :

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Item Name            | : Happy School Bus: Stack and Stay Creative Blocks |
| Item No.             | : 113                                              |
| Quantity             | : 1 Group                                          |
| Vendor/Manufacturer  | : RICH EASY TECHNOLOGY ENTERPRISE CO., LTD         |
| Country of Origin    | : Taiwan                                           |
| Goods Exported To    | : U.S.A, Europe, Japan, Korea                      |
| Date Sample Received | : Mar 22, 2023                                     |
| Date Test Started    | : Mar 22, 2023                                     |

### Test Conducted:

As requested by the applicant, for details please refer to attached pages.

### Conclusion:

Please see page two to three.

### Remarks:

- #1 = Results were transferred from report No. TWNH00096527 dated Dec 13, 2022.
- #2 = Results were transferred from report No. TWNH00097338 dated Mar 28, 2023.
- #3 = Results were transferred from report No. TWNH00097332 dated Mar 28, 2023.

Authorized By:  
On behalf of Intertek Testing Services  
Taiwan Limited

Matt Wang  
Director



Signed by:

Thomas Chou

Thomas Chou  
Manager



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Conclusion:

| <u>Tested sample</u>                      | <u>Standard</u>                                                                                                                                   | <u>Result</u> |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| Submitted Samples                         | Mechanical and physical properties<br>— As per European standard on safety of toys EN 71 part 1:<br>2014 + A1 : 2018                              | Pass          |
|                                           | Flammability test<br>— As per European standard on safety of toys EN 71 part 2 :<br>2011 + A1 : 2014                                              | Pass          |
| Tested Components of<br>Submitted Samples | 19 Toxic Element Migration Test<br>— As per European standard on safety of toys EN 71-3:<br>2019+A1:2021                                          | Pass          |
|                                           | Phthalates Content<br>— As per annex XVII items 51 and items 52 of the REACH<br>regulation (EC) No. 1907/2006 and its amendment (EU)<br>2018/2005 | Pass          |
|                                           | Total Cadmium (Cd) Content<br>— As per annex XVII item 23 of the REACH regulation (EC) No.<br>1907/2006                                           | Pass          |

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Note : The attention of the applicant is drawn to the need for the item to be labeled as below

- Toys made available on the market shall bear the CE marking. The CE marking shall be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking shall be at least 5 mm high.
- The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.
- Manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
- Manufacturers and importers shall ensure that the toy is accompanied by instructions and safety information in a language or languages easily understood by consumers, as determined by the Member State concerned.
- A Member State may, within its territory, stipulate that warnings and safety instructions shall be written in a language or languages easily understood by consumers, as determined by that Member State.

If this information is not fixed to the toy itself, it should be accompanied by a notice in advising the purchaser to retain it.

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Director



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### **1. Mechanical and Physical Properties**

As per European standard on safety of toys EN 71 part 1:2014 + A1 : 2018

Appropriate age group for testing : For all ages

| <u>Clause</u> | <u>Testing item</u>                         | <u>Assessment</u> |
|---------------|---------------------------------------------|-------------------|
| 4*            | General requirements                        | P                 |
| 5*            | Toys intended for children under 36 months  | P                 |
| 6             | Packaging                                   | P                 |
| 7*            | Warnings, markings and instructions for use | P (See Note)      |

Remarks : P = Pass

\* = The following subclauses of the standard are found applicable :

- 1) 4.1 Material cleanliness
- 2) 4.7 Edges
- 3) 4.8 Points and metallic, wires
- 4) 4.20 Acoustics
- 5) 4.23 Magnets
- 6) 5.1 General requirements
- 7) 5.8 Shape and size of certain toys
- 8) 7.1 General

### **2. Flammability Test**

As per European standard on safety of toys EN 71 part 2 : 2011+ A1 : 2014.

| <u>Clause</u> | <u>Testing item</u>                                                         | <u>Assessment</u> |
|---------------|-----------------------------------------------------------------------------|-------------------|
| 4.1           | General                                                                     |                   |
|               | — Cellulose nitrate                                                         | P                 |
|               | — Pile surface                                                              | NA                |
|               | — Flammable gas and liquid                                                  | NA                |
| 4.2           | Toys to be worn on the head (5.2/5.3/5.4)                                   | NA                |
| 4.3           | Toy disguise costumes and toys intended to be worn by a child in play (5.4) | NA                |
| 4.4           | Toys intended to be entered by a child (5.4)                                | NA                |
| 4.5           | Soft-filled toys(5.5)                                                       | NA                |

Remarks : P = Pass

NA = Not applicable



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### 3. 19 Toxic Element Migration Test

As per EN 71-3:2019+A1:2021 and followed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS).  
Further confirmation test was determined by High Performance Liquid Chromatography with Diode Array Detection (HPLC-DAD), Liquid Chromatography /Inductively Coupled Plasma Mass Spectrometer (LC/ICP-MS), and Gas Chromatography-Mass Spectrometer (GC-MS) when necessary.

Category III: Scraped-off toy material

| Element                  | Result (mg/kg) |         |         |         |         | Detection limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|---------|---------|---------|---------|-------------------------|---------------|
|                          | (1)(#1)        | (2)(#3) | (3)(#3) | (4)(#3) | (5)(#3) |                         |               |
| Aluminium (Al)           | ND             | ND      | ND      | ND      | ND      | 300                     | 28130         |
| Antimony (Sb)            | ND             | ND      | ND      | ND      | ND      | 10                      | 560           |
| Arsenic (As)             | ND             | ND      | ND      | ND      | ND      | 10                      | 47            |
| Barium (Ba)              | ND             | ND      | ND      | ND      | ND      | 10                      | 18750         |
| Boron (B)                | ND             | ND      | ND      | ND      | ND      | 50                      | 15000         |
| Cadmium (Cd)             | ND             | ND      | ND      | ND      | ND      | 5                       | 17            |
| Chromium (III) (Cr(III)) | ND             | ND      | ND      | ND      | ND      | 10                      | 460           |
| Chromium (VI) (Cr(VI))   | ND             | ND      | ND      | ND      | ND      | 0.025                   | 0.053         |
| Cobalt (Co)              | ND             | ND      | ND      | ND      | ND      | 10                      | 130           |
| Copper (Cu)              | ND             | ND      | ND      | ND      | ND      | 10                      | 7700          |
| Lead (Pb)                | ND             | ND      | ND      | ND      | ND      | 10                      | 23            |
| Manganese (Mn)           | ND             | ND      | ND      | ND      | ND      | 10                      | 15000         |
| Mercury (Hg)             | ND             | ND      | ND      | ND      | ND      | 10                      | 94            |
| Nickel (Ni)              | ND             | ND      | ND      | ND      | ND      | 10                      | 930           |
| Selenium (Se)            | ND             | ND      | ND      | ND      | ND      | 10                      | 460           |
| Strontium (Sr)           | ND             | ND      | ND      | ND      | ND      | 100                     | 56000         |
| Tin (Sn)                 | ND             | ND      | ND      | ND      | ND      | 10                      | 180000        |
| Organic tin              | ND             | ND      | ND      | ND      | ND      | 3.0                     | 12            |
| Zinc (Zn)                | ND             | ND      | ND      | ND      | ND      | 100                     | 46000         |



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### 3. 19 Toxic Element Migration Test

| Element                  | Result (mg/kg) |         |         |     | Detection limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|---------|---------|-----|-------------------------|---------------|
|                          | (6)            | (7)(#2) | (8)(#1) | (9) |                         |               |
| Aluminium (Al)           | ND             | ND      | ND      | ND  | 300                     | 28130         |
| Antimony (Sb)            | ND             | ND      | ND      | ND  | 10                      | 560           |
| Arsenic (As)             | ND             | ND      | ND      | ND  | 10                      | 47            |
| Barium (Ba)              | ND             | ND      | ND      | ND  | 10                      | 18750         |
| Boron (B)                | ND             | ND      | ND      | ND  | 50                      | 15000         |
| Cadmium (Cd)             | ND             | ND      | ND      | ND  | 5                       | 17            |
| Chromium (III) (Cr(III)) | ND             | ND      | ND      | ND  | 10                      | 460           |
| Chromium (VI) (Cr(VI))   | ND             | ND      | ND      | ND  | 0.025                   | 0.053         |
| Cobalt (Co)              | ND             | ND      | ND      | ND  | 10                      | 130           |
| Copper (Cu)              | ND             | ND      | ND      | ND  | 10                      | 7700          |
| Lead (Pb)                | ND             | ND      | ND      | ND  | 10                      | 23            |
| Manganese (Mn)           | ND             | ND      | ND      | ND  | 10                      | 15000         |
| Mercury (Hg)             | ND             | ND      | ND      | ND  | 10                      | 94            |
| Nickel (Ni)              | ND             | ND      | ND      | ND  | 10                      | 930           |
| Selenium (Se)            | ND             | ND      | ND      | ND  | 10                      | 460           |
| Strontium (Sr)           | ND             | ND      | ND      | ND  | 100                     | 56000         |
| Tin (Sn)                 | ND             | ND      | ND      | ND  | 10                      | 180000        |
| Organic tin              | ND             | ND      | ND      | ND  | 3.0                     | 12            |
| Zinc (Zn)                | ND             | ND      | ND      | ND  | 100                     | 46000         |

| Element                  | Result (mg/kg) |      |          |      | Detection limit (mg/kg) | Limit (mg/kg) |
|--------------------------|----------------|------|----------|------|-------------------------|---------------|
|                          | (10)           | (11) | (12)(#1) | (13) |                         |               |
| Aluminium (Al)           | ND             | ND   | ND       | ND   | 300                     | 28130         |
| Antimony (Sb)            | ND             | ND   | ND       | ND   | 10                      | 560           |
| Arsenic (As)             | ND             | ND   | ND       | ND   | 10                      | 47            |
| Barium (Ba)              | ND             | ND   | ND       | ND   | 10                      | 18750         |
| Boron (B)                | ND             | ND   | ND       | ND   | 50                      | 15000         |
| Cadmium (Cd)             | ND             | ND   | ND       | ND   | 5                       | 17            |
| Chromium (III) (Cr(III)) | ND             | ND   | ND       | ND   | 10                      | 460           |
| Chromium (VI) (Cr(VI))   | ND             | ND   | ND       | ND   | 0.025                   | 0.053         |
| Cobalt (Co)              | ND             | ND   | ND       | ND   | 10                      | 130           |
| Copper (Cu)              | ND             | ND   | ND       | ND   | 10                      | 7700          |
| Lead (Pb)                | ND             | ND   | ND       | ND   | 10                      | 23            |
| Manganese (Mn)           | ND             | ND   | ND       | ND   | 10                      | 15000         |
| Mercury (Hg)             | ND             | ND   | ND       | ND   | 10                      | 94            |
| Nickel (Ni)              | ND             | ND   | ND       | ND   | 10                      | 930           |
| Selenium (Se)            | ND             | ND   | ND       | ND   | 10                      | 460           |
| Strontium (Sr)           | ND             | 1250 | ND       | ND   | 100                     | 56000         |
| Tin (Sn)                 | ND             | ND   | ND       | ND   | 10                      | 180000        |
| Organic tin              | ND             | ND   | ND       | ND   | 3.0                     | 12            |
| Zinc (Zn)                | ND             | ND   | ND       | ND   | 100                     | 46000         |



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### 3. 19 Toxic Element Migration Test

| Element                  | Result (mg/kg) |          |          |          | Detection limit<br>(mg/kg) | Limit<br>(mg/kg) |
|--------------------------|----------------|----------|----------|----------|----------------------------|------------------|
|                          | (14)(#1)       | (15)(#1) | (16)(#1) | (18)(#1) |                            |                  |
| Aluminium (Al)           | ND             | ND       | ND       | ND       | 300                        | 28130            |
| Antimony (Sb)            | ND             | ND       | ND       | ND       | 10                         | 560              |
| Arsenic (As)             | ND             | ND       | ND       | ND       | 10                         | 47               |
| Barium (Ba)              | ND             | ND       | ND       | ND       | 10                         | 18750            |
| Boron (B)                | ND             | ND       | ND       | ND       | 50                         | 15000            |
| Cadmium (Cd)             | ND             | ND       | ND       | ND       | 5                          | 17               |
| Chromium (III) (Cr(III)) | ND             | ND       | ND       | ND       | 10                         | 460              |
| Chromium (VI) (Cr(VI))   | ND             | ND       | ND       | ND       | 0.025                      | 0.053            |
| Cobalt (Co)              | ND             | ND       | ND       | ND       | 10                         | 130              |
| Copper (Cu)              | ND             | ND       | ND       | ND       | 10                         | 7700             |
| Lead (Pb)                | ND             | ND       | ND       | ND       | 10                         | 23               |
| Manganese (Mn)           | ND             | 248      | ND       | 24       | 10                         | 15000            |
| Mercury (Hg)             | ND             | ND       | ND       | ND       | 10                         | 94               |
| Nickel (Ni)              | ND             | ND       | ND       | ND       | 10                         | 930              |
| Selenium (Se)            | ND             | ND       | ND       | ND       | 10                         | 460              |
| Strontium (Sr)           | ND             | ND       | ND       | ND       | 100                        | 56000            |
| Tin (Sn)                 | ND             | ND       | ND       | ND       | 10                         | 180000           |
| Organic tin              | 11.7           | ND       | 5.4      | ND       | 3.0                        | 12               |
| Zinc (Zn)                | ND             | ND       | ND       | ND       | 100                        | 46000            |

Remarks: ND = Not detected

- Unless test result was marked with "Δ", organic tin content was derived from migration tin (Sn) content.
- According to the annex F to EN 71-3:2019+A1:2021, the content of chromium (III) from the migration solution was calculated through the formula: chromium (III) = total chromium – chromium(VI).



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### 4. Phthalates Content

By solvent extraction and determined by Gas Chromatography-Mass Spectrometer (GC-MS).

#### I. Entry 51 of Annex XVII to Regulation (EC) No 1907/2006:

| Compound                       | Result (%) |             |         |        |         | Limit (%) |
|--------------------------------|------------|-------------|---------|--------|---------|-----------|
|                                | (1/7)(#2)  | (2/3/4)(#3) | (5/6/8) | (9/10) | (11/13) |           |
| Diethyl hexyl phthalate (DEHP) | ND         | ND          | ND      | ND     | ND      | 0.1       |
| Dibutyl phthalate (DBP)        | ND         | ND          | ND      | ND     | ND      | 0.1       |
| Benzyl butyl phthalate (BBP)   | ND         | ND          | ND      | ND     | ND      | 0.1       |
| Diisobutyl phthalate (DIBP)    | ND         | ND          | ND      | ND     | ND      | 0.1       |
| Sum of DEHP, DBP, BBP & DIBP   | ND         | ND          | ND      | ND     | ND      | 0.1       |

| Compound                       | Result (%)  |          |          |          | Limit (%) |
|--------------------------------|-------------|----------|----------|----------|-----------|
|                                | (12/16)(#1) | (14)(#1) | (15)(#1) | (17)(#1) |           |
| Diethyl hexyl phthalate (DEHP) | ND          | ND       | ND       | ND       | 0.1       |
| Dibutyl phthalate (DBP)        | ND          | ND       | ND       | ND       | 0.1       |
| Benzyl butyl phthalate (BBP)   | ND          | ND       | ND       | ND       | 0.1       |
| Diisobutyl phthalate (DIBP)    | ND          | ND       | ND       | ND       | 0.1       |
| Sum of DEHP, DBP, BBP & DIBP   | ND          | ND       | ND       | ND       | 0.1       |

#### II. Entry 52 of Annex XVII to Regulation (EC) No 1907/2006:

| Compound                        | Result (%) |             |         |        |         | Limit (%) |
|---------------------------------|------------|-------------|---------|--------|---------|-----------|
|                                 | (1/7)(#2)  | (2/3/4)(#3) | (5/6/8) | (9/10) | (11/13) |           |
| Di-(iso-nonyl) phthalate (DINP) | ND         | ND          | ND      | ND     | ND      | --        |
| Di-(Iso-decyl) phthalate (DIDP) | ND         | ND          | ND      | ND     | ND      | --        |
| Di-(n-octyl) phthalate (DNOP)   | ND         | ND          | ND      | ND     | ND      | --        |
| Sum of DINP, DIDP & DNOP        | ND         | ND          | ND      | ND     | ND      | 0.1       |

| Compound                        | Result (%)  |          |          |          | Limit (%) |
|---------------------------------|-------------|----------|----------|----------|-----------|
|                                 | (12/16)(#1) | (14)(#1) | (15)(#1) | (17)(#1) |           |
| Di-(iso-nonyl) phthalate (DINP) | ND          | ND       | ND       | ND       | --        |
| Di-(Iso-decyl) phthalate (DIDP) | ND          | ND       | ND       | ND       | --        |
| Di-(n-octyl) phthalate (DNOP)   | ND          | ND       | ND       | ND       | --        |
| Sum of DINP, DIDP & DNOP        | ND          | ND       | ND       | ND       | 0.1       |

Remarks: % = Percentage based on weight of tested sample

ND = Not detected

Detection limit = 0.005% (for each compound)

The above limits are quoted from Annex XVII Items 51 and Items 52 of the REACH regulation (EC) No. 1907/2006 and its amendment (EU) 2018/2005.



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### 5. Total Cadmium (Cd) Content

Acid digestion method was used and total cadmium content was determined by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

| <u>Tested Component</u> | <u>Result (ppm)</u> | <u>Limit (ppm)</u> |
|-------------------------|---------------------|--------------------|
| (1/7)(#2)               | ND                  | 100                |
| (2/3/4)(#3)             | ND                  | 100                |
| (5/6/8)                 | ND                  | 100                |
| (9/10)                  | ND                  | 100                |
| (11/13)                 | ND                  | 1000               |
| (12/16)(#1)             | ND                  | 1000               |
| (14)(#1)                | ND                  | 100                |
| (15)(#1)                | ND                  | 1000               |
| (17)(#1)                | ND                  | 1000               |

Limit:

Not detected for cadmium plating

100 ppm for all plastic materials, paint contain less than 10% zinc, brazing fillers & metal parts of jewelry

1000 ppm for recovered PVC, coatings & paint contain greater than 10% zinc

Remarks: ppm = Parts per million based on weight of tested sample = mg/kg

ND = Not detected

Detection limit = 5 ppm

Above limit was quoted according to annex XVII items 23 of the REACH regulation (EC) No. 1907/2006.

Tested Components:

- (1) White plastic frame
- (2) Yellow plastic block
- (3) Light red plastic block
- (4) Teal green plastic block
- (5) Purple plastic block
- (6) Black plastic block
- (7) White plastic block
- (8) Black plastic tire
- (9) Dark grey plastic base
- (10) Dim yellow plastic car
- (11) Red coating (#4)
- (12) White coating
- (13) Black coating (#4)
- (14) Colorful paper cover with film
- (15) Black coating on coil
- (16) Lacquer on cover
- (17) Colorful coating on page
- (18) White paper page with colorful coating

Remarks: #4 = As applicant's request, the alternative paint was dried at 105 °C for 4 hours before test.



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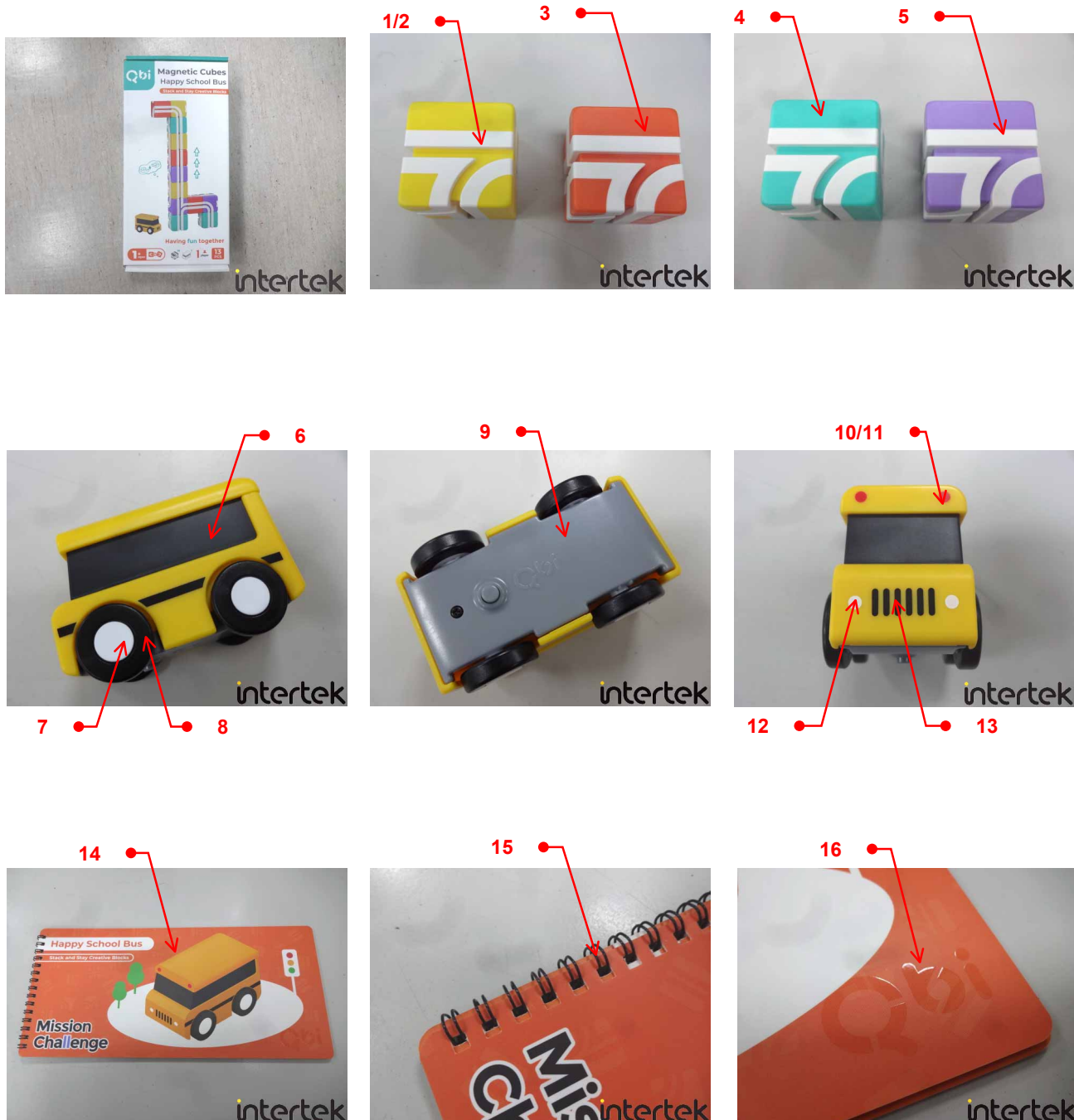


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Sample photo:



End of Report

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**Reporting Statements of Conformity:** Please note that the test results contain statement of conformity with the decision rules which are based on the specifications of customers, regulations and standards, and does not consider measurement uncertainty.



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