TEST REPORT

Product Name : BUBBLE SERIES
Model Number : See page 3

Prepared for	:	Guangdong Huating Intelligent Technology Co., Ltd.
Address	:	4th Floor, No. 9 Shatian Middle Road, Lide Village Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China
Prepared by	:	EMTEK(DONGGUAN) CO., LTD.
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Report Number	:	EDG2409240013L00201RM1
Date(s) of Tests	:	November 27, 2024 to December 02, 2024
Date of issue	:	December 19, 2024

TEST REPORT

Applicant	:	Guangdong Huating Intelligent Technology Co., Ltd.
Address	:	4th Floor, No. 9 Shatian Middle Road, Lide Village Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China
Manufacturer	:	Guangdong Huating Intelligent Technology Co., Ltd.
Address	:	4th Floor, No. 9 Shatian Middle Road, Lide Village Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China
Factory	:	Guangdong Huating Intelligent Technology Co., Ltd.
Address	:	4th Floor, No. 9 Shatian Middle Road, Lide Village Industrial Zone, Lianxia Town, Chenghai District, Shantou City, Guangdong Province, China
Sample Name	:	BUBBLE SERIES
Model list	:	See page 3

Labeled Age Grading	:	3+
Requested Age Grading	:	3+
Age Group Applied in Testing	:	3+
Sample Received Date	:	September 24, 2024
Testing Completed Date	:	September 24, 2024 to September 30, 2024
Added Testing Completed Date	:	November 27, 2024 to December 02, 2024
Test Requested	:	As requested by client, test for compliance with EN IEC 62115:2020+A11:2020 on Safety of Electric Toys
Test Results	:	Please refer to next page(s).

Executive Summary:

STANDARD	CONCLUSION
EN IEC 62115:2020+A11:2020 Safety of Electric Toy	PASS (Subjected to remark)

Signed for and on behalf of
EMTEK (Dongguan) Co., Ltd.

Prepared by:	Reviewed by:	Approved by:
Coral Chen	June Luo	Nicol Lee
Report Engineer	Supervisor	Manager

TEST REPORT

Item No
HT8011,HT8012,HT8032,HT8051,HT8052,HT8053,HT8063,HT8064,HT8065,HT8084,HT8105, HT8106,HT8111,HT8112,HT8113,HT8114,HT8115,HT8116,HT8117,HT8118,HT8119,HT8201, HT8202,HT8203,HT8204,HT8205,HT8206,HT8207,HT8208,HT8209,HT8210,HT8211,HT8212, HT8213,HT8214,HT8215,HT8216,HT8217,HT8301,HT8302,HT8303,HT8304,HT8401,HT8402, HT8403,HT2010,HT2011,HT2012,HT2013,HT2014,HT2015,HT2016,HT2017,HT2018,HT2019, HT2020,HT2021,HT2022,HT2023,HT2024,HT2025,HT2026,HT2027,HT2028,HT2029,HT2055, HT5057,HT2120,HT2121,HT2122,HT2123,HT2124,HT2125,HT2126,HT2127,HT2128,HT2129, HT2130,HT2131,HT2201,BV381,BV382,BV388,BV383,BV365,BV236,418861

Modified History:			
Version	Report No.	Revision date	Summary
	EDG2409240013L00201R	October 12, 2024	Original Report
M1	EDG2409240013L00201RM1	December 19, 2024	Added Series 2 test;

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Test Results:

As per European Standard EN IEC 62115:2020+A11:2020 on Safety of Electric Toys.

Power input Series 1: 6VDC (4×1.5VDC AA size batteries, replaceable) for Electric Toys.

Power input Series 2: 4.5VDC (3×1.5VDC AA size batteries, replaceable) for Electric Toys.

Electric Operated Function: The motor, loudspeaker and light are powered by batteries.

All models have same construction except appearance.

Clause	Testing Items	Assessment
1.	Scope	--
2.	Normative references	--
3.	Terms and definitions	--
4.	General requirement	--
5.	General conditions for tests	--
6.	Criteria for reduced testing	NA
6.1	General	NA
6.2	Short-circuit resistance	NA
6.3	Low power electric toys	NA
6.4	Battery circuits	NA
7.	Marking and instructions	P
7.1	General	P(See Remark1)
7.2	Markings on electric toys	P
7.2.1	Identification	P
7.2.2	Electric toys with replaceable batteries	P
7.2.3	Transformer toys and power supply toys	NA
7.2.4	Electric toys with more than one power supply	NA
7.2.5	Electric toys with detachable lamps	NA
7.2.6	Symbols	P
7.2.7	Durability	P
7.3	Instructions and markings on packaging	P
7.3.1	General	P
7.3.2	Transformer toys and power supply toys	NA
7.3.3	Electric toys that are used with replaceable batteries	P
7.3.3.1	General	P
7.3.3.2	Coin batteries	NA
7.3.3.3	Button batteries	NA
7.4	Instructions for electric toys that can be connected to class I equipment	NA

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Clause	Testing Items	Assessment
7.5	Instructions for ride-on electric toys	NA
7.6	Temperature warnings	NA
8.	Power input	NA
9.	Heating and abnormal operation	P
9.1	General	P
9.2	Testing condition	--
9.3	Normal operation	P (See table 1)
9.4	Normal operation with insulation short-circuited	NA
9.5	Abnormal operation with temperature controls made inoperable	NA
9.6	Electric toys with accessible moving parts locked	P (See table 1)
9.7	Additional transformers and power supplies	NA
9.8	Abnormal supply to electric toys via a USB connection	NA
9.9	Fault condition in electronic circuits	NA
9.10	Compliance criteria	P
10.	Electric strength	P
10.1	Electric strength at operating temperature	P
10.2	Electric strength under humid conditions	P
11.	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	P
12.	Mechanical strength	P (See table 2)
12.1	Enclosures	P
12.2	Attachment strength	P
13.	Construction	P
13.1	Nominal supply voltage	P
13.2	Transformers, power supplies and battery chargers	NA
13.3	Thermal cut-outs	NA
13.4	Batteries	P
13.4.1	Small batteries	NA
13.4.2	Other batteries	P
13.4.3	Electrolyte leakage	NA
13.4.4	Electric toys placed above a child	NA
13.4.5	Parallel connection of batteries	NA
13.4.6	Battery compartment fasteners	P
13.5	Plug and sockets	NA
13.6	Charging batteries	NA
13.7	Series motors	NA
13.8	Working voltage	NA
13.9	Electric toys connecting to other equipment	NA
13.10	Speed limitation of ride-on electric toys	NA

Clause	Testing Items	Assessment
14.	Protection of cords and wires	P
14.1	Edges and moving parts	P
14.2	Fixed parts	P
15.	Components	P
15.1.1	General	P
15.1.2	Switches and automatic controls	NA
15.1.3	Other components	P
15.2	Prohibited components	NA
15.3	Transformers and power supplies	NA
15.4	Battery chargers	NA
15.5	Batteries	See Remark2
16.	Screws and connections	P
16.1	Fixings	P (See table 3)
16.2	Connections	NA
17.	Clearances and creepage distances	P
18.	Resistance to heat and fire	P
18.1	Resistance to heat	NA
18.2	Resistance to fire	P (See table 4)
18.2.1	General	P
18.2.2	Non-metallic parts	P
18.2.3	Insulating material	NA
19.	Radiation and similar hazards	--
19.1	General	See Remark 3
19.2	Optical radiation Electric toys incorporating lasers and or light emitting diodes (LED) or UV emitting lamps shall comply with Annex E. Electric toys incorporating LEDs shall comply with 19.E.2. Electric toys incorporating lasers shall comply with 19.E.3. Electric toys incorporating UV-emitting lamps shall comply with 19.E.4.	P (See table 5)
19.3	Other electromagnetic radiation Measurements methods for electric toys with an integrated field source that may produce harmful electromagnetic radiation are given in Annex I.	NA
Annex D	Electric toys with protective electronic circuits D.1 General During the tests of 9.9 an electronic circuit prevents the hazardous conditions listed in 9.10 D.2 Dangerous malfunction D.2.1 General The electric toy causes an unintended operation that may impair safety or present a dangerous malfunction due to influence from electromagnetic phenomena (EMP). D.2.2 Electrostatic discharge In accordance with IEC 61000-4-2:2008, test level 4 D.2.3 Radiated fields In accordance with IEC 61000-4-3:2006+A1:2007+A2:2010, test level 3,	NA

	cover 80 MHz to 1000 MHz and 1,4 GHz to 2,0 GHz. D.2.4 Transient bursts In accordance with IEC 61000-4-4:2012. -Test level 3 with a repetition rate of 5 kHz is applicable for signal and control lines. -Test level 4 with a repetition rate of 5 kHz is applicable for the power supply lines. D.2.5 Voltage surges In accordance with IEC 61000-4-5:2014, -Test level 4 is applicable for the line-to-line coupling mode, a generator having a source impedance of 2 Ω being used. - Test level 4 is applicable for the line-to-earth coupling mode, a generator having a source impedance of 12 Ω being used. D.2.6 Injected current In accordance with IEC 61000-4-6:2013 test level 3 being applicable. During the test, all frequencies between 0,15 MHz to 80 MHz are covered. D.2.7 Voltage dips and interruptions Class 3 voltage dips and interruptions in accordance with IEC 61000-4-11:2004. D.2.8 Mains signals In accordance with IEC 61000-4-13:2002/AMD2:2015, Table 11 with test level class 2 using the frequency steps according to Table 10.	
Annex J	Safety of remote controls for electric ride-on toys	NA

Remark: P = Pass NA= Not applicable NC=Test object does not considered by applicant

Remark:

1. Only the English version of the marking and instructions were assessed. According to the standard, instruction sheets and other texts required by the standard shall be written in the official language of the country in which the product is to be sold.
2. Applicant needs to ensure that the primary batteries supplied with electric toy shall comply with the relevant parts of the IEC 60086 series.
3. This report only covers the essential safety requirements concerning electrical properties on the safety of toys and in order to comply with EN IEC 62115:2020+A11:2020, electrical toys also have to comply with EN71-3 for the toxicological hazards.

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Table1:
Heating and abnormal operation

Temperature rise (Normal operation): Discharge		
Ambient temperature : (Deg. C)	25.0℃	
Location	Temperature Rise (K)	Limit (K)
Series 1		
Battery surface	3.5	45
Enclosure close to battery	1.2	50
Switch	0.3	50
Accessible surface (Max.): Enclosure close to motor	0.4	50
Series 2		
Battery surface	4.2	45
Enclosure close to battery	2.7	50
Switch	0.2	50
Accessible surface (Max.): Enclosure close to motor	1.0	50

Temperature rise (Abnormal operation): Accessible moving parts were locked		
Ambient temperature : (Deg. C)	25.0℃	
Location	Temperature Rise (K)	Limit (K)
Battery surface	4.6	45
Enclosure close to battery	1.7	50
Switch	0.4	50
Accessible surface (Max.): Enclosure close to motor	0.6	50

Table 2:
Mechanical strength

Testing Location	Impact Energy (J)	Test times	Result
Enclosure	0.5	3	No defect

Table 3:
Threaded Part Torque Test

Threaded part identification	Diameter of thread (mm)	Column number (I or II)	Applied torque (Nm)
Screw fixed for battery cover of Series 1	2.43	II	0.4
Screw fixed for battery cover of Series 2	2.32	II	0.4

Table 4:
Resistance to heat and fire

Glow-wire test (550 Deg. °C)		
Location / Part	Test temperature (°C)	Result Observation
Battery compartment	550	No flame, no molten drop

Table 5:
Test data 1:

Test Type	Peak wavelength (nm)	Spectral emission bandwidth(nm)	Frequency of modulation (Hz)	Measured intensity (cd)	AEL(cd)	Verdict
Blue light	455	31.7	/	0.683	1.6	Pass

Picture

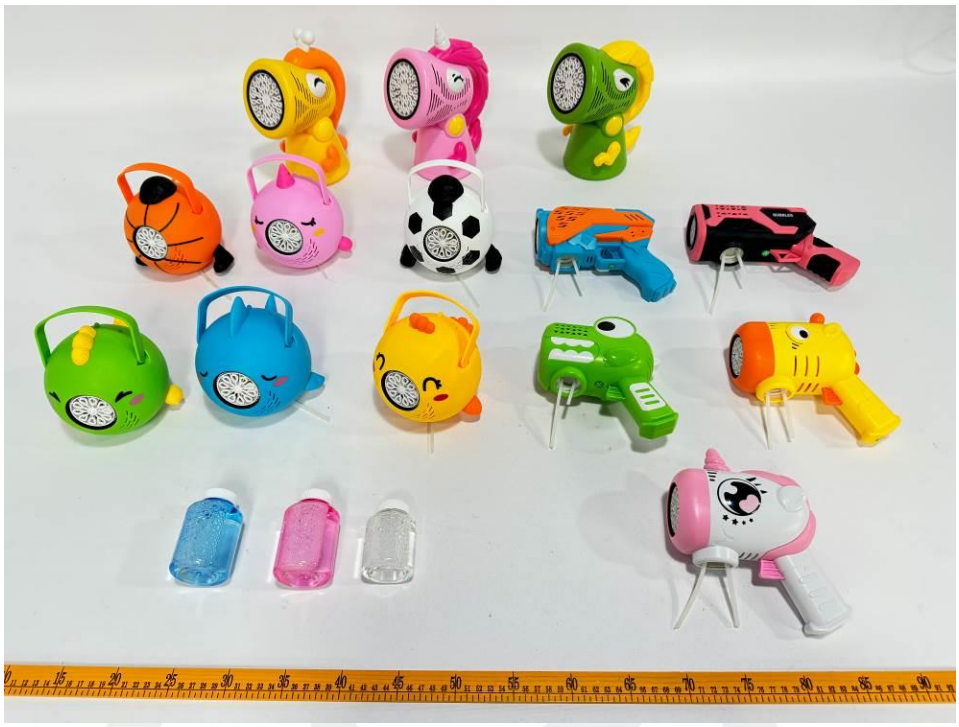

Figure 1: Overview

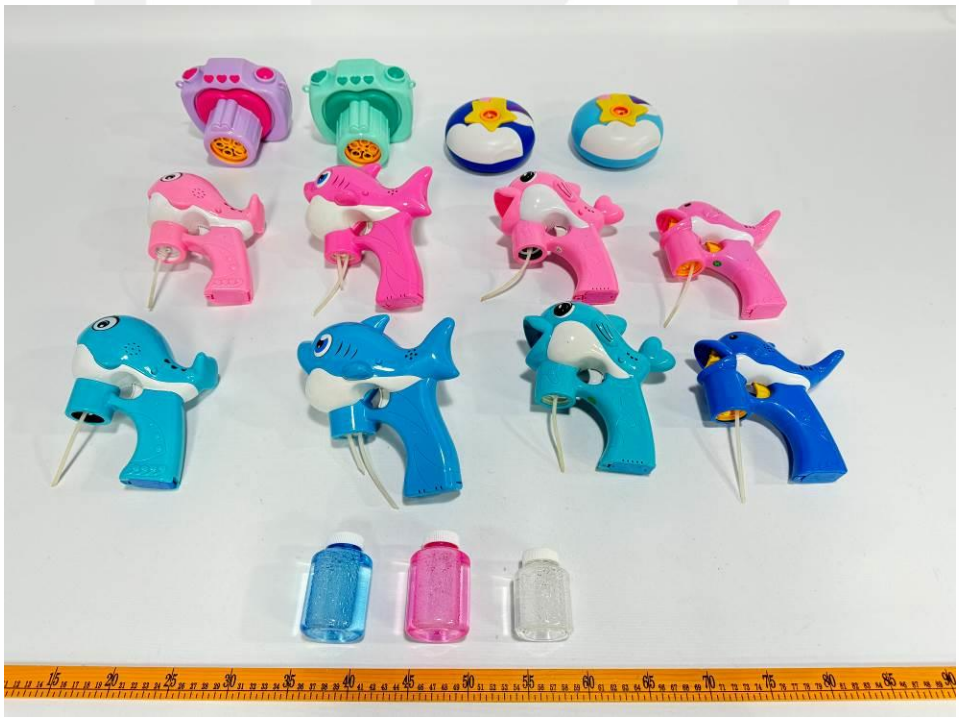

Figure 2: Overview

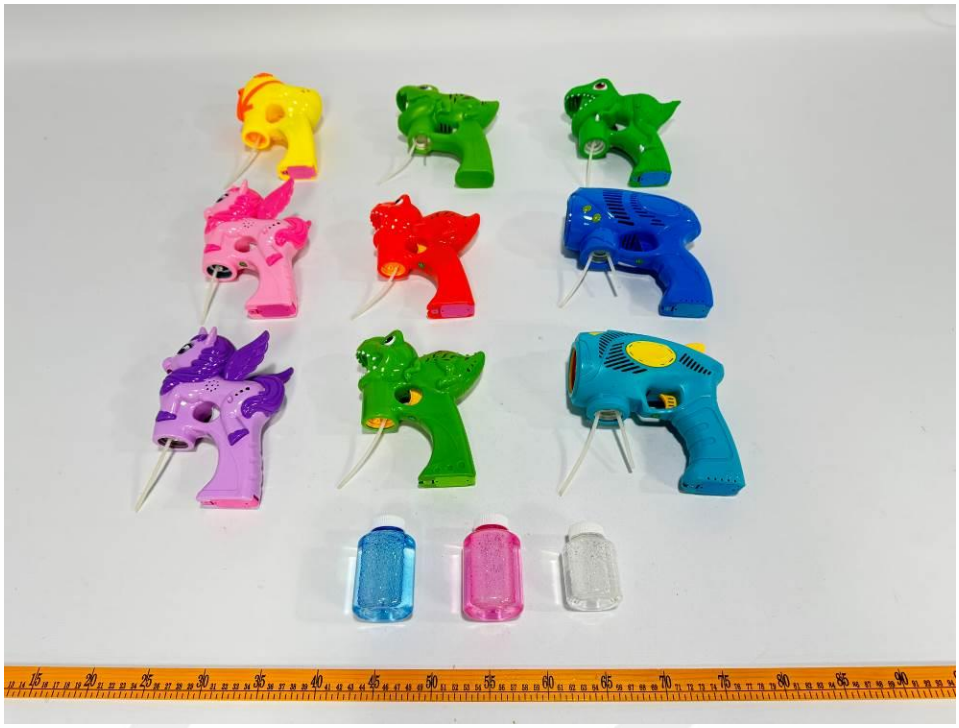

Figure 3: Overview

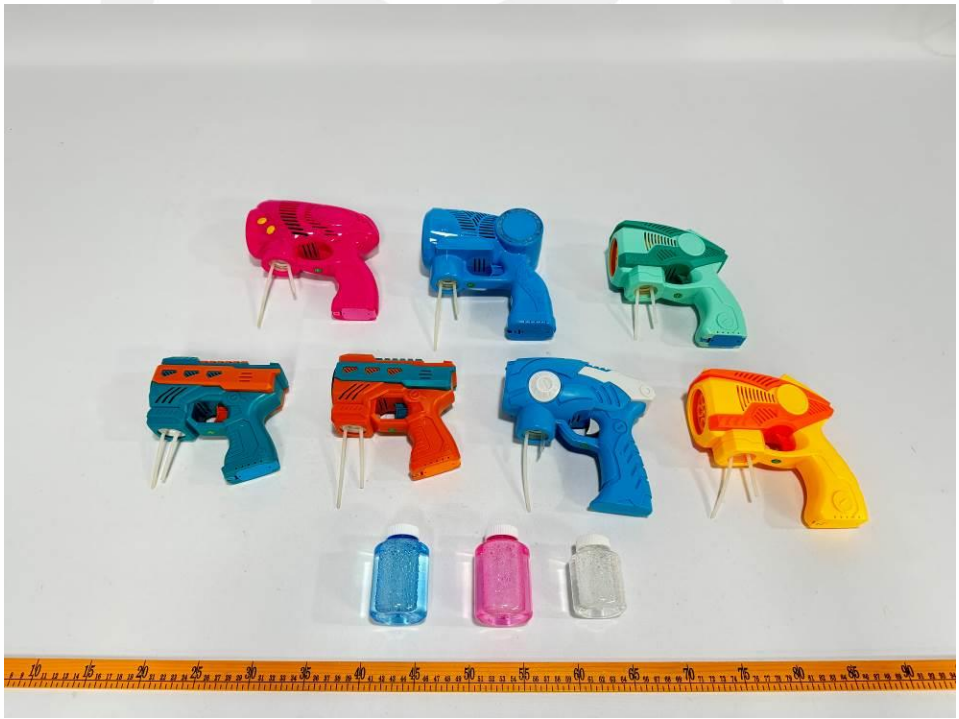

Figure 4: Overview

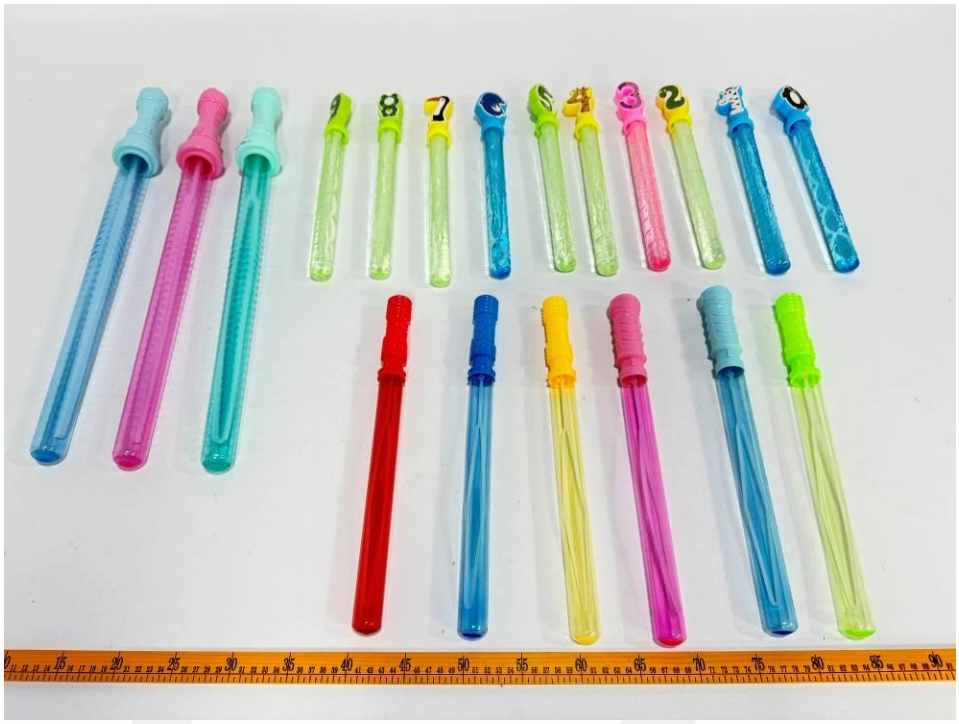

Figure 5: Overview

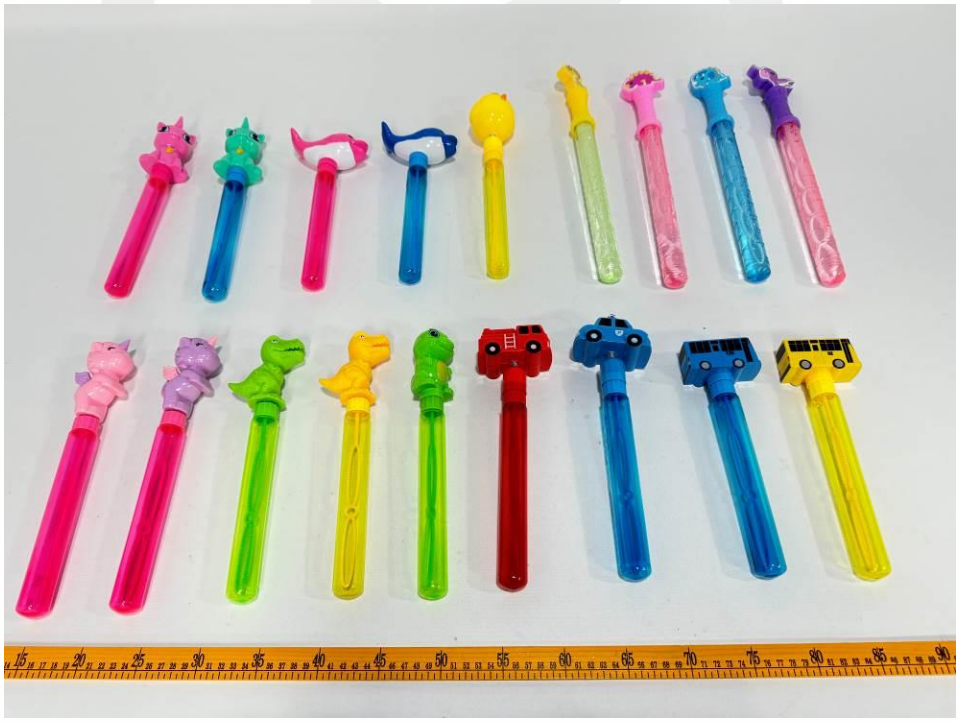

Figure 6: Overview

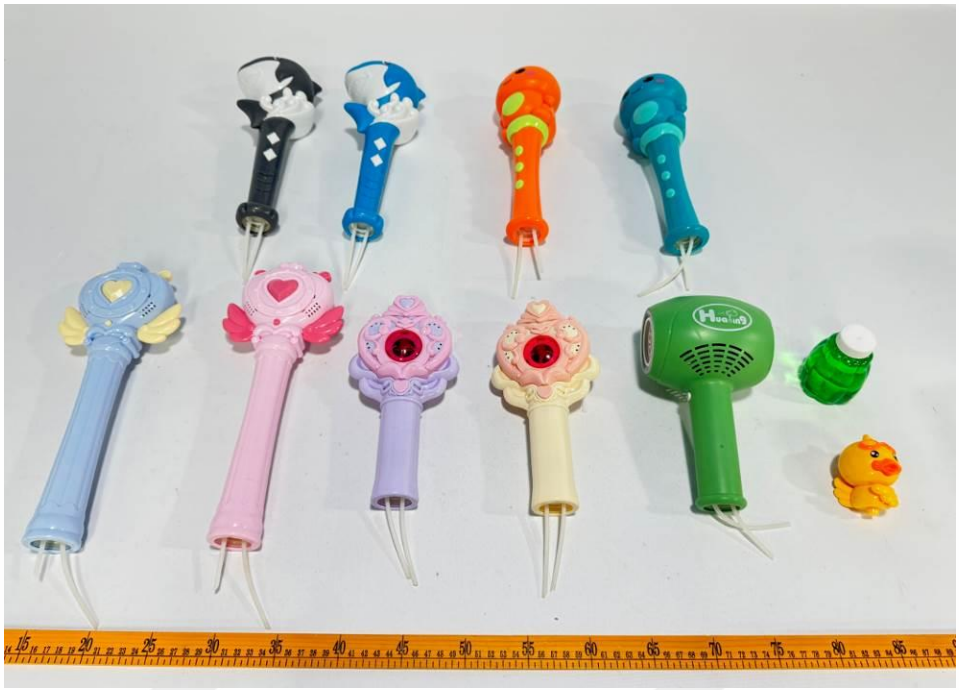

Figure 7: Overview

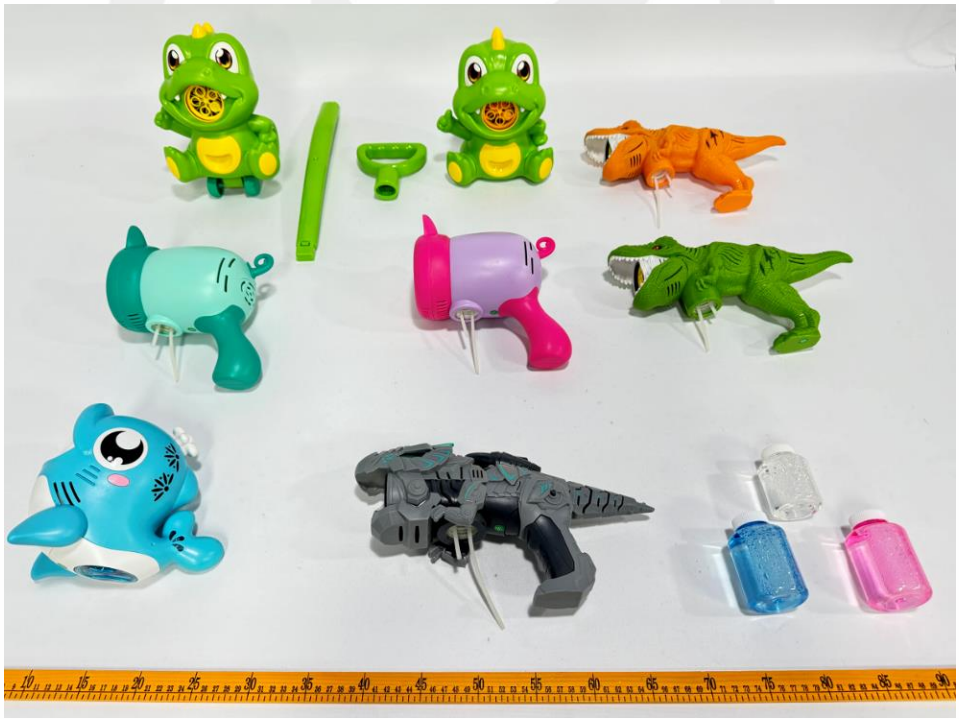

Figure 8: Overview

* * * * * * The End * * * * * *

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