



Test Report

No.: T52410251217TY

Date: MAR 05, 2024

Page 1 of 41

# Tiny Love Test Report

Applicant:	TINY LOVE LTD
Address:	KORENDIJK 5, NL-5704 RD, HELMOND
Contact Person:	SMADAR CAHLON, YARDEN LABEL , SARIT FRUCHTNIS

Sample Description:	TINY ROCKERS ELECTRONIC GUITAR		
Style/Item No.:	150680E001	PO No.:	/
Country of Destination:	/	Country of Origin:	CHINA
Vendor:	/		
Manufacturer:	YICO		
Date Code:	/		
Client Reference Information:	/		
Intended Age Grade on Label:	12M+		

\*\*\*\*\*

Age Group Applied in Testing:	OVER 12 MONTHS		
Date In:	JAN 25, 2024		
Date Out:	MAR 05, 2024		
Working Days:	7+		
Further Information Date:	/	Sample Resubmission Date:	FEB 29, 2024



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Member of the SGS Group (SGS SA)

Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	With reference to the European standard on Safety of toys: -	--
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	SEE RESULT
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements	PASS
2.	Client’s requirement - Colour Fastness to Rubbing (EN ISO 105-X12:2016)	PASS
3.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Cadmium content	PASS
4.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalates content	PASS
5.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments including (EU) 2020/2096 – AZO Colourants	PASS
6.	European commission directive (EU) 2019/1929 – Formaldehyde	PASS
	Client’s requirement - Formaldehyde	PASS
7.	European Directive (EU) 2021/903 amending appendix C to Annex II of Directive 2009/48/EC – Aniline Content	PASS
8.	Client’s requirement - Extractable Heavy Metal	PASS



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Test Requested		Conclusion
9.	Client's Requirement – Polycyclic Aromatic Hydrocarbons (PAHs) Content	PASS
10.	Client's Requirement – Lead Content	PASS
11.	Client's Requirement – Cadmium Content	PASS
12.	Phthalates Content	SEE RESULT
13.	Client's Requirement – Alkylphenol Ethoxylates (APEOs) – Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) content	PASS
14.	Client's Requirement – Alkylphenol (AP)– Nonylphenol (NP) and Octylphenol (OP) content	PASS
15.	Client's Requirement – O-phenylphenol (OPP) content	PASS
16.	EN 71-12:2016- N-Nitrosamines and N-Nitrosatable substances	PASS

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*



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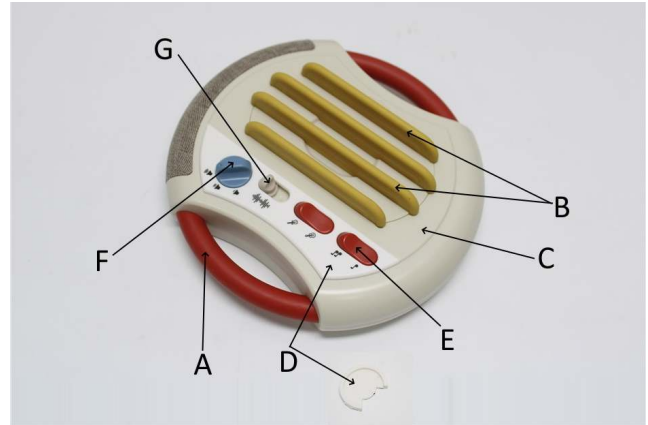
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**Picture Page**

Pic.1



Pic.2



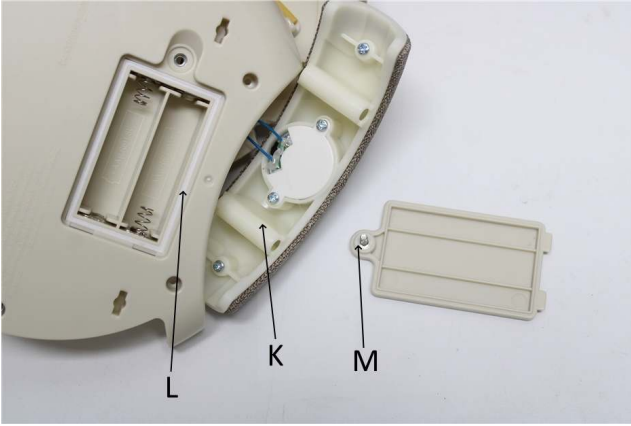
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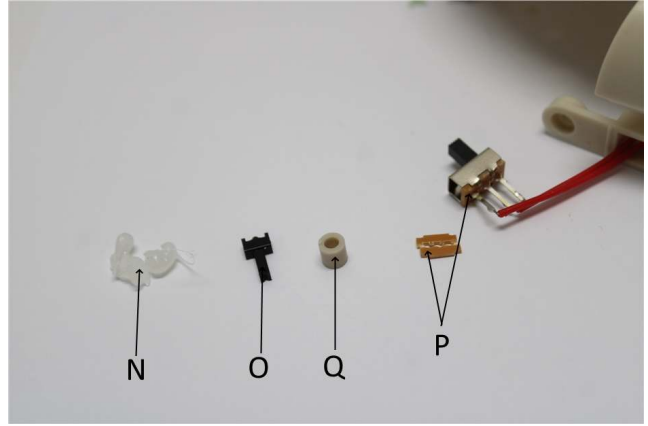
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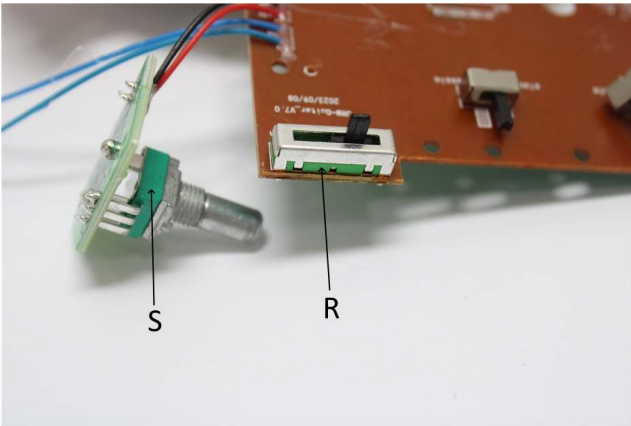
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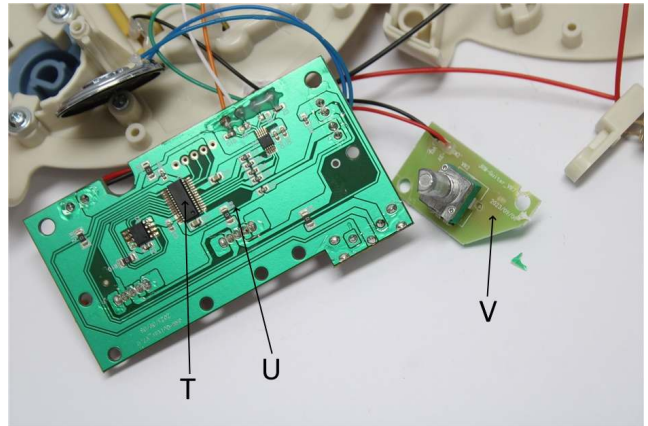
Pic.6



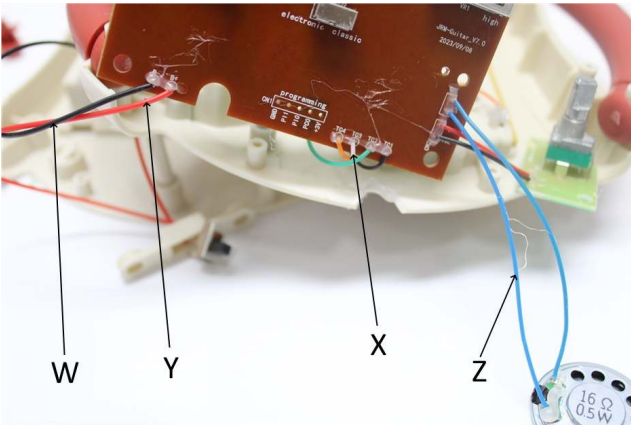
Pic.7



Pic.8



Pic.9



Pic.10

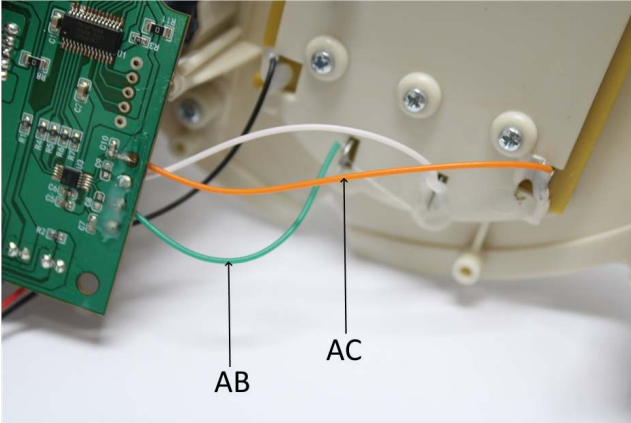


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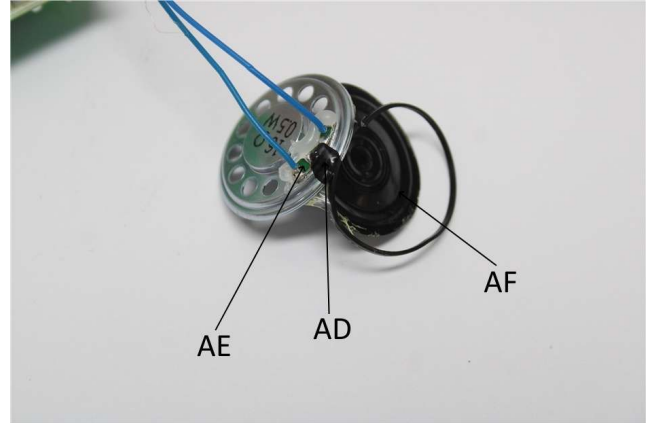
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Pic.11



Pic.12



Signed for and on behalf of  
 SGS-CSTC Standards Technical  
 Services Co., Ltd. Shenzhen Branch Testing Center

*Smy*

*Aaron*

*Kally*



Sun Yaqing, Sunny  
 Supervisor

Sun Enxu, Aaron  
 Dept. Manager

Deng Qing, Kally  
 Senior Engineer



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**Results:**

**EUROPEAN STANDARD ON SAFETY OF TOYS**

**EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES**

AS SPECIFIED IN EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General Requirements	
4.1	Materials cleanliness	PASS
4.7	Edges	PASS
4.8	Points and Metallic Wires	PASS
4.20	Acoustics	PASS (See Table)

Table

Toy:

Max Result	Limit
L <sub>pA</sub> : 62.7 dB	90 dB
L <sub>pCpeak</sub> : 80.8 dB	110 dB

5	Toys intended for Children under 36 months	
5.1	General Requirements	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	PASS
5.1b	Torque test (Test method 8.3)	PASS
5.1b	Tension test (Test method 8.4)	PASS
5.1b	Drop test (Test method 8.5)	PASS
5.1b	Impact test (Test method 8.7)	PASS
5.1b	Sharp edge (Test method 8.11)	PASS
5.1b	Sharp point (Test method 8.12)	PASS
6	Packaging	PASS



<u>Clause</u>	<u>Description</u>	<u>Result</u>
7	Warnings, markings and instructions for use Only English warnings were checked for the clause 7.	
7.1	General Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see EN 71-1. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.	PASS

**EN 71-2: 2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY**

AS SPECIFIED IN EN 71-2: 2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	PASS





**LABELING REQUIREMENT (WASHING/CLEANING LABEL, CE MARK, IMPORTER / MANUFACTURER MARK (NAME, ADDRESS), PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC-SAFETY OF TOYS**

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Present	Packaging
CE mark	Present	Toy &Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Toy &Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable."
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must 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.



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**Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019+A1:2021 – Migration of certain elements**

Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
	1	2	3		
<b>Specimen No.</b>				--	--
<b>Mass of trace amount</b> (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium <sup>+</sup> (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium <sup>+</sup> (Cr) (mg/kg)	ND	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	7	8	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium <sup>+</sup> (Cr) (mg/kg)	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	9	10	--	--
Mass of trace amount (mg)	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	28130
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium <sup>+</sup> (Cr) (mg/kg)	ND	ND	1	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	4.5	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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### Specimen Description:

1. Red soft plastic (Handle) (A)
2. Yellow soft plastic (String) (B)
3. Cream plastic (Body) (C)
4. White plastic (Body) (D)
5. Dull red plastic (Switch) (E)
6. Dull blue plastic (Switch) (F)
7. Dull grey plastic (Switch) (G)
8. Dark cream plastic (Cover) (I)
9. Yellow plastic (Switch) (AA)
10. Light brown fabric (Body) (H)

- Note:
- mg/kg = milligram per kilogram
  - mg = milligram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm
  - + Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- \* = Exceeds Permissible Limit

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019+A1:2021.

Black coating on plastic (Body) (J)



**Colour Fastness to Rubbing**

I.(EN ISO 105-X12:2016; Size of rubbing finger: 16mm diameter)

	1	Client's Requirement
Dry staining	4-5	Min.4
Wet staining	4-5	Min.3-4

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

**Specimen Description:**

1. Light brown fabric (Body)

**European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – Cadmium Content**

Method: With reference to CPSC-CH-E1003-09.1 / CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Plastic

Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Red soft plastic (Handle) (A) + Yellow soft plastic (String) (B) + Yellow plastic (Switch) (AA)	12	1	ND
2. Cream plastic (Body) (C) + White plastic (Body) (D) + Dull red plastic (Switch) (E)	12	2	ND
3. Dull blue plastic (Switch) (F) + Dull grey plastic (Switch) (G) + Dark cream plastic (Cover) (I)	12	3	ND
4. Cream plastic (Inner) (K) + Dull green plastic (Switch) (S)	12	4	ND
5. White adhesive foam (Box) (L) w/ Transparent plastic sheet (Box) (M) + Transparent dry glue (Inner) (N) + Black plastic sheet (Speaker) (AF) w/ Black dry glue (Speaker) (AD)	12	5	ND
6. Black plastic (Wire jacket) (W) + White plastic (Wire jacket) (X) + Red plastic (Wire jacket) (Y)	12	6	ND
7. Blue plastic (Wire jacket) (Z) + Green plastic (Wire jacket) (AB) + Orange plastic (Wire jacket) (AC)	12	7	ND
8. Black plastic (Inner) (O) + Dark cream plastic (Switch) (Q) + Light green plastic (Switch) (R)	12	8	ND
9. Brown PCB w/ green & white printing (U) w/ Black material (Big IC) (T) + Light green PCB w/ white & green printing (V)	12	9	ND
10. Light brown PCB (P) + Cream PCB w/ green printing (AE)	12	10	ND



For Paint on Painted Article

Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	1000		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Black coating on plastic (Body) (J)	11	1	ND

- Note:
- Permissible and Reference Limit specified by Commission Regulation (EU) No 494/2011 & Commission Regulation (EU) No 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC).
  - mg/kg = milligram per kilogram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 5 mg/kg
  - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- \* Exceeds Permissible or Reference Limit



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**European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content**

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Materials can be placed in the mouth for toys & childcare articles

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
		1	2	3		
Alias No.	--	7	7	7		
Tracing No.	--	1	2	3		
Specimen No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



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Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	7	7		
Tracing No.	--	4	5		
Specimen No.	--	4	5		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.004	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	0.004	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1

Specimen Description:

1. Red soft plastic (Handle) (A) + Yellow soft plastic (String) (B)
2. Black coating on plastic (Body) (J)
3. Cream plastic (Body) (C) + White plastic (Body) (D) + Dull red plastic (Switch) (E)
4. Dull blue plastic (Switch) (F) + Dull grey plastic (Switch) (G) + Dark cream plastic (Cover) (I)
5. Yellow plastic (Switch) (AA) + Cream plastic (Inner) (K) + Dull green plastic (Switch) (S)



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Materials can not be placed in the mouth for toys & childcare articles or plasticized material in the other article.

Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	7	7		
Tracing No.	--	6	7		
Specimen No.	--	1	2		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	7	7		
Tracing No.	--	8	9		
Specimen No.	--	3	4		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	--	0.1



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Specimen Description:

1. White adhesive foam (Box) (L) w/ Transparent plastic sheet (Box) (M) + Transparent dry glue (Inner) (N) + Black plastic sheet (Speaker) (AF) w/ Black dry glue (Speaker) (AD)
2. Black plastic (Wire jacket) (W) + White plastic (Wire jacket) (X) + Red plastic (Wire jacket) (Y)
3. Blue plastic (Wire jacket) (Z) + Green plastic (Wire jacket) (AB) + Orange plastic (Wire jacket) (AC)
4. Black plastic (Inner) (O) + Dark cream plastic (Switch) (Q) + Light green plastic (Switch) (R)

- Note:
- ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - % = percentage by weight

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- <sup>Δ</sup> Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- \* Exceeds Permissible Limit



**European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment including (EU) 2020/2096 – AZO Colourants**

Method: With reference to EN ISO 14362-1:2017 / EN ISO 14362-3:2017 / § 64 LFGB, BVL B 82.02-2:2013 / § 64 LFGB, BVL B 82.02-15:2013

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

No.	Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
			1			
			Direct reduction	Colorant extraction		
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30

**Specimen Description:**

1. Light brown fabric (Body) (H)



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- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 clause 10.1 and relevant clauses.

- EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.
- 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
- In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- -- = Test method is not applicable due to identified specimen nature with respect to method(s).
- @ = The amine was detected according to EN ISO 14362-1:2017 with the reducing agent. A similar result was obtained from the procedure carried out without the reducing agent. According to EN ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from a source other than azo colorants.
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- ^ = The amine was detected according to EN ISO 14362-1:2017 with the reducing agent. Confirmation procedure was carried out without reducing agent, according to EN ISO 14362-1:2017 Annex C.2.1.2.2, the amine originated from azo colorants.
- Δ = Pass/Fail cannot be given due to the presence of substance(s) is between 5–30mg/kg. Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.
- \* Exceeds Permissible Limit



**European commission directive (EU) 2019/1929 – Formaldehyde**

For Polymeric

Method: With reference to EN71-10: 2005 and EN71-11: 2005  
 Analysis was performed by Ultraviolet Visible Spectrometer (UV-Vis)

Specimen Description	Alias No.	Tracing No.	MDL (mg/L)	Result(s) (mg/L)	Limit (mg/L)
1. Red soft plastic (Handle) (A) + Yellow soft plastic (String) (B)	15	1	0.8	ND	1.5
2. Cream plastic (Body) (C) + White plastic (Body) (D) + Dull red plastic (Switch) (E)	15	2	0.8	ND	1.5
3. Dull blue plastic (Switch) (F) + Dull grey plastic (Switch) (G) + Dark cream plastic (Cover) (I)	15	3	0.8	ND	1.5
4. Yellow plastic (Switch) (AA) + Black plastic sheet (Speaker) (AF) + Black dry glue (Speaker) (AD)	15	4	0.8	ND	1.5
5. Cream plastic (Inner) (K) + Dull green plastic (Switch) (S)	15	5	0.8	ND	1.5
6. White adhesive foam (Box) (L) + Transparent plastic sheet (Box) (M) + Transparent dry glue (Inner) (N)	15	6	0.8	ND	1.5
7. Black plastic (Wire jacket) (W) + White plastic (Wire jacket) (X) + Red plastic (Wire jacket) (Y)	15	7	0.8	ND	1.5
8. Blue plastic (Wire jacket) (Z) + Green plastic (Wire jacket) (AB) + Orange plastic (Wire jacket) (AC)	15	8	0.8	ND	1.5
9. Black plastic (Inner) (O) + Dark cream plastic (Switch) (Q) + Light green plastic (Switch) (R)	15	9	0.8	ND	1.5
10. Transparent dry glue (Body) (BA)	01T-1	2	0.8	ND	1.5



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**Test Report**

No.: T52410251217TY

Date: MAR 05, 2024

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- Note:
- mg/L = milligram per liter
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen surface area
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- \* Exceeds Limit

For Textiles

Method: With reference to ISO 14184-1: 2011, Textiles- Determination of formaldehyde - Part 1: Free and Hydrolized formaldehyde (water extraction method)

Analysis was performed by Ultraviolet Visible Spectrometer (UV-Vis)

Specimen Description	Alias No.	Tracing No.	MDL (mg/kg)	Result(s) (mg/kg)	Limit (mg/kg)	Client's Limit (mg/kg)
1. Light brown fabric (Body) (H) (Submitted on Feb 29, 2024)	01T-1	1	10	ND	30	16

- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- \* Exceeds Limit



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**European Directive (EU) 2021/903 amending appendix C to Annex II of Directive 2009/48/EC – Aniline Content**

Method: With reference to EN ISO 14362-1:2017 / EN ISO 14362-3:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		1			
		Direct reduction	Colorant extraction		
Aniline	62-53-3	ND	ND	5	30

Specimen Description:

1. Light brown fabric (Body) (H)

- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 clause 10.1 and relevant clauses.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- -- = Test method is not applicable due to identified specimen nature with respect to method(s).
- Δ = Pass/Fail cannot be given due to the presence of substance(s) is between 5–30mg/kg. Detected substance(s) may come from one or more component(s) in composite testing. Individual testing of mixed components is highly recommended.
- \* Exceeds Permissible Limit
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight



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**Extractable Heavy Metal**

Method: With reference to EN 16711-2:2015

Analysis was performed by Inductively Coupled Plasma – Mass Spectrometry (ICP-MS) and Ultraviolet Visible Spectrometer (UV-Vis).

Test Item(s)	Result(s) (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1		
Alias No.	17		
Tracing No.	1		
Cadmium (Cd)	ND	0.1	1
Lead (Pb)	ND	0.2	1
Chromium VI (CrVI)	ND	0.3	3

**Specimen Description:**

- 1. Light brown fabric (Body) (H)

- Note
- mg/kg = milligram per kilogram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- \* Exceeds Permissible Limit



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**Polycyclic Aromatic Hydrocarbon (PAHs) Content**

Method: With reference to AfPS GS 2019:01 PAK method.  
 Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Category 1: Materials intended to be placed in the mouth or materials coming into long-term contact with skin (More than 30s) during the intended use – In toys according to Directive 2019/48/EC or for the use by children up to 3 years of age

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		1	2	3		
Specimen No.	--	1	2	3		
Alias No.	--	16	16	16		
Tracing No.	--	1	2	3		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs^	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		4	5	6		
Specimen No.	--	4	5	6		
Alias No.	--	16	16	16		
Tracing No.	--	4	5	6		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs <sup>^</sup>	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1



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Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	--	7	8		
Alias No.	--	16	16		
Tracing No.	--	7	8		
1. Naphthalene	91-20-3	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	0.1	0.2
Sum of 7 PAHs <sup>^</sup>	--	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	--	1



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Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	--	9	10		
Alias No.	--	16	16		
Tracing No.	--	9	10		
1. Naphthalene	91-20-3	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	0.1	--
9. Benzo[a]anthracene	56-55-3	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	0.1	0.2
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12. Benzo[k]fluoranthene	207-08-9	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	0.1	0.2
Sum of 7 PAHs^	--	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	--	1

**Specimen Description:**

1. Red soft plastic (Handle) (A)
2. Yellow soft plastic (String) (B)
3. Cream plastic (Body) (C)
4. White plastic (Body) (D)
5. Dull red plastic (Switch) (E)
6. Dull blue plastic (Switch) (F)
7. Dull grey plastic (Switch) (G)
8. Dark cream plastic (Cover) (I)
9. Yellow plastic (Switch) (AA)
10. Light brown fabric (Body) (H)



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- Note:
- ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - mg/kg = milligram per kilogram
  - ^ 7 PAHs including Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene & Pyrene

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- \* Exceeds Client's limit

Remark: As received, below test portion(s) is(are) less than 50 mg, therefore such component(s) was(were) not tested for PAHs, as specified in AfPS GS 2019:01 PAK method.  
Black coating on plastic (Body) (J)

**Lead Content**

Method: With reference to CPSC-CH-E1003-09.1 / CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3

Test Item(s)	Unit	1	2	3	MDL	Client's Limit
Alias No.	--	14	14	14	--	--
Tracing No.	--	1	2	3	--	--
Lead (Pb)	mg/kg	ND	ND	ND	10	40

**Specimen Description:**

1. Red soft plastic (Handle) (A) + Yellow soft plastic (String) (B) + Yellow plastic (Switch) (AA)
2. Cream plastic (Body) (C) + White plastic (Body) (D) + Dull red plastic (Switch) (E)
3. Dull blue plastic (Switch) (F) + Dull grey plastic (Switch) (G) + Dark cream plastic (Cover) (I)



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## Test Report

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Date: MAR 05, 2024

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- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- \* Exceeds Client's Limit

### Cadmium Content

Method: With reference to CPSC-CH-E1003-09.1 / CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3

Test Item(s)	Unit	1	2	3	MDL	Client's Limit
Alias No.	--	13	13	13	--	--
Tracing No.	--	1	2	3	--	--
Cadmium (Cd)	mg/kg	ND	ND	ND	5	40

### Specimen Description:

1. Red soft plastic (Handle) (A) + Yellow soft plastic (String) (B) + Yellow plastic (Switch) (AA)
2. Cream plastic (Body) (C) + White plastic (Body) (D) + Dull red plastic (Switch) (E)
3. Dull blue plastic (Switch) (F) + Dull grey plastic (Switch) (G) + Dark cream plastic (Cover) (I)

- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- \* Exceeds Client's Limit



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**Phthalates Content**

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
		1	2	3	
<b>Specimen No.</b>	--	1	2	3	<b>MDL (%)</b>
<b>Alias No.</b>	--	8	8	8	
<b>Tracing No.</b>	--	1	2	3	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025



Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
		4	5	6	
Specimen No.	--	4	5	6	MDL (%)
Alias No.	--	8	8	8	
Tracing No.	--	4	5	6	
Dibutyl Phthalate (DBP)	84-74-2	ND	0.004	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025



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Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
		7	8	9	
Specimen No.	--	7	8	9	MDL (%)
Alias No.	--	8	8	8	
Tracing No.	--	7	8	9	
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND	ND	ND	0.003
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025



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Specimen Description:

1. Red soft plastic (Handle) (A) + Yellow soft plastic (String) (B)
2. Black coating on plastic (Body) (J)
3. Cream plastic (Body) (C) + White plastic (Body) (D) + Dull red plastic (Switch) (E)
4. Dull blue plastic (Switch) (F) + Dull grey plastic (Switch) (G) + Dark cream plastic (Cover) (I)
5. Yellow plastic (Switch) (AA) + Cream plastic (Inner) (K) + Dull green plastic (Switch) (S)
6. White adhesive foam (Box) (L) w/ Transparent plastic sheet (Box) (M) + Transparent dry glue (Inner) (N) + Black plastic sheet (Speaker) (AF) w/ Black dry glue (Speaker) (AD)
7. Black plastic (Wire jacket) (W) + White plastic (Wire jacket) (X) + Red plastic (Wire jacket) (Y)
8. Blue plastic (Wire jacket) (Z) + Green plastic (Wire jacket) (AB) + Orange plastic (Wire jacket) (AC)
9. Black plastic (Inner) (O) + Dark cream plastic (Switch) (Q) + Light green plastic (Switch) (R)

- Note:
- MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - % = percentage by weight

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- <sup>^</sup> = a mixture of i) Di-n-pentyl phthalate (DPP); ii) N-pentyl-isopentylphthalate (nPiPP) and iii) Diisopentyl phthalate (DiPP)
- <sup>Δ</sup> Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- \* Exceeds Client's Limit



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**Alkylphenol Ethoxylates (APEOs) – Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) content**

Method: Solvent extraction

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector & Mass Spectrometer (HPLC-DAD-MS) / Triple Quadrupole Liquid Chromatograph Mass Spectrometer (LC-MS/MS)

Test Item(s)	Result(s) (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1		
Alias No.	5		
Tracing No.	1		
Nonylphenol Ethoxylates (NPEOs)	ND	30	100
Octylphenol Ethoxylates (OPEOs)	ND	30	100

Specimen Description:

- 1. Light brown fabric (Body) (H)

- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- <sup>Δ</sup> Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- \* Exceeds Client's Limit



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**Alkylphenol (AP) – Nonylphenol (NP) and Octylphenol (OP) content**

Method: Solvent extraction

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector & Mass Spectrometer (HPLC-DAD-MS) / Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result(s) (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1		
Alias No.	4		
Tracing No.	1		
Nonylphenol (NP)	ND	5	100
Octylphenol (OP)	ND	5	100

Specimen Description:

- Light brown fabric (Body) (H)

- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- \* Exceeds Client's Limit

**O-phenylphenol (OPP) content**

Method: With reference to ISO 17070/ §64 LFGB, BVL, B 82.02.8-2001 KOH method

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / Gas Chromatography Electron Capture Detector (GC-ECD)

Test Item(s)	Result(s) (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1		
O-phenylphenol (OPP)	ND	0.5	100

Specimen Description:

- Light brown fabric (Body) (H)



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- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- \* Exceeds Client's Limit

The below tests were conducted by SGS Guangzhou Lab.

**EN 71-12:2016- N-Nitrosamines and N-Nitrosatable substances**

Test Method: With reference to EN 71-12:2016, analysis was performed by LC-MS-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
N-Nitrosodiethanolamine (NDELA)	1116-54-7	-	mg/kg	0.01	ND	ND
N-Nitrosodimethylamine (NDMA)	62-75-9	-	mg/kg	0.01	ND	ND
N-Nitrosodiethylamine (NDEA)	55-18-5	-	mg/kg	0.01	ND	ND
N-Nitrosodipropylamine (NDPA)	621-64-7	-	mg/kg	0.01	ND	ND
N-Nitrosodiisopropylamine (NDiPA)	601-77-4	-	mg/kg	0.01	ND	ND
N-Nitrosodibutylamine (NDBA)	924-16-3	-	mg/kg	0.01	ND	ND
N-Nitrosodiisobutylamine (NDiBA)	997-95-5	-	mg/kg	0.01	ND	ND
N-nitrosodiisononylamine (NDiNA)	1207995-62-7	-	mg/kg	0.01	ND	ND
N-Nitrosomorpholine (NMOR)	59-89-2	-	mg/kg	0.01	ND	ND
N-Nitrosopiperidine (NPIP)	100-75-4	-	mg/kg	0.01	ND	ND
N-Nitrosodibenzylamine (NDBzA)	5336-53-8	-	mg/kg	0.01	ND	ND
N-Nitroso-N-methyl-N-phenylamine (NMPPhA)	614-00-6	-	mg/kg	0.01	ND	ND
N-Nitroso-N-ethyl-N-phenylamine (NEPhA)	612-64-6	-	mg/kg	0.01	ND	ND
Sum of N-Nitrosamines	-	0.05	mg/kg	-	ND	ND
N-Nitrosatable substances(NDELA)	1116-54-7	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NDMA)	62-75-9	-	mg/kg	0.1	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1	A2
N-Nitrosatable substances (NDEA)	55-18-5	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NDPA)	621-64-7	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NDiPA)	601-77-4	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NDBA)	924-16-3	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NDiBA)	997-95-5	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NDiNA)	1207995-62-7	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NMOR)	59-89-2	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NPIP)	100-75-4	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NDBzA)	5336-53-8	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NMPPhA)	614-00-6	-	mg/kg	0.1	ND	ND
N-Nitrosatable substances (NEPhA)	612-64-6	-	mg/kg	0.1	ND	ND
Sum of N-Nitrosatable substances	-	1.0	mg/kg	-	ND	ND
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

**Test Part Description:**

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN24-0020888-0001.C001	Red soft plastic (Handle) (A)
SN2	A2	CAN24-0020888-0001.C002	Yellow soft plastic (String) (B)

**Remarks:**

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-” = Not Regulated

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

N.B. : - Only applicable clauses were shown.



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Note:

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the report:

N/A = Not Applicable

\*\* = Visual Examination

DNI = Did Not Ignite

SE = Self-Extinguishing

IBE = Ignite But Self-Extinguished

SE within 50mm = Self-extinguished within 50 mm of flame application

Remark:

- 1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
- 2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability(k=2),  $w = U_{95}$ . The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit ( $T_U$ ):

Pass - when the measurement result is below  $T_U - U_{95}$

Fail - when the measurement result is above  $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band [ $T_U - U_{95}$ ,  $T_U + U_{95}$ ]

For Lower Tolerance Limit ( $T_L$ ):

Pass - when the measurement result is above  $T_L + U_{95}$

Fail - when the measurement result is below  $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band [ $T_L - U_{95}$ ,  $T_L + U_{95}$ ]

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

