Test Report No.: 70.452.23.32330.01
Date: 2023-12-25

Applicant:	FUJIAN KANGLAIBAO CO., LTD.
Address:	NO.1, INDUSTRIAL 6TH-ROAD, INDUSTRIAL AREA, LIAN CHENG COUNTY ,LONGYAN CITY, FUJIAN PROVINCE,CHINA
Product Name:	Swing Set
Model No:	344-081V00GN(S027-A) 344-082V00YL(S029) 344-083V00RD(S033) 344-084V00YL(S026)
Labelled Age Range:	3+
Age range in testing:	Over 3 years
Age Group Assessed As per Age Guideline:	Over 3 years
Receipt Date of Sample:	2023-11-14 & 2023-11-24 & 2023-12-04
Date of Testing:	2023-11-14~ 2023-12-19
Sample Submitted:	The sample(s) was (were) submitted by applicant and identified.
Test Result:	Refer to the data listed in following pages

Test Item		Conclusion
1.	**ASTM F963-17 Physical and mechanical test**	**Pass**
2.	**ASTM F963-17 Flammability test**	**Pass**
3.	**ASTM F963-17 Section 4.3.5.1(1) - Total Lead Content Test (Paint and Similar Surface Coating Materials)**	**Pass**
4.	**ASTM F963-17 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)**	**Pass**
5.	**ASTM F963-17 Section 4.3.5 - Heavy Element (Soluble Heavy Element)**	**Pass**
6.	**Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 - Tracking labels for children's products**	**Pass**
7.	**Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in paint/similar surface coating material**	**Pass**
8.	**Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in substrate materials**	**Pass**
9.	**16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates**	**Pass**
10.	**Canada Toys Regulations SOR/2011-17 Mechanical, physical and flammability test**	**Pass**
11.	**Canada Toys Regulations SOR/2011-17 Section 23 -Total Lead, Mercury**	**Pass**
12.	**Canada Toys Regulations SOR/2011-17 Section 23 -Soluble Heavy Metals**	**Pass**
13.	**Canada Surface Coating Materials Regulations (SOR/2016-193)- Total Lead & Mercury Content**	**Pass**
14.	**Canada Consumer Products Containing Lead Regulations (SOR/2018-83)-Total Lead Content**	**Pass**
15.	**Canada Phthalates Regulations (SOR/2016-188)- Phthalates Content**	**Pass**
16.	**EN 71-1:2014+A1:2018 Mechanical and Physical Properties**	**Pass**
17.	**EN 71-2:2020 Flammability**	**Pass**
18.	**EN 71-3:2019+A1:2021- Migration of certain elements**	**Pass**

19.	**Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content**	**Pass**
20.	**Regulation (EC) No.1907/2006 (REACH) Annex XVII, Items 51 and 52 - Phthalates Content**	**Pass**
21.	**Content of 15 PAHs (Polycyclic Aromatic Hydrocarbons)**	**Pass**
22.	**Regulation (EC) No.1907/2006 (REACH) Annex XVII, item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)**	**Pass**
23.	**Regulation (EC) No.1907/2006 (REACH) Annex XVII, item 43 - Azodyes**	**Pass**
24.	**EN 71-8:2018 Activity toys for domestic use**	**Pass**

Remarks: 1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable
6.The client specified the test materials and test items. Conclusion is specific to the tested materials.

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Date: 2023-12-25

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch
Testing Center

Prepared by:

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Authorized by:

Neko Ding
Director

Note:

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For further details, please see "Testing and certification regulation", chapter A-3.4
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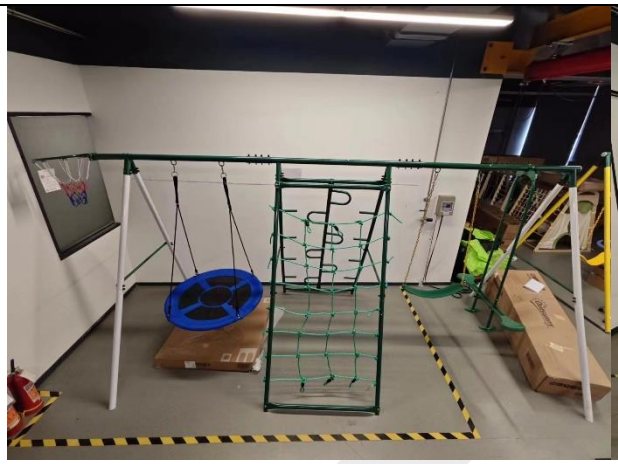
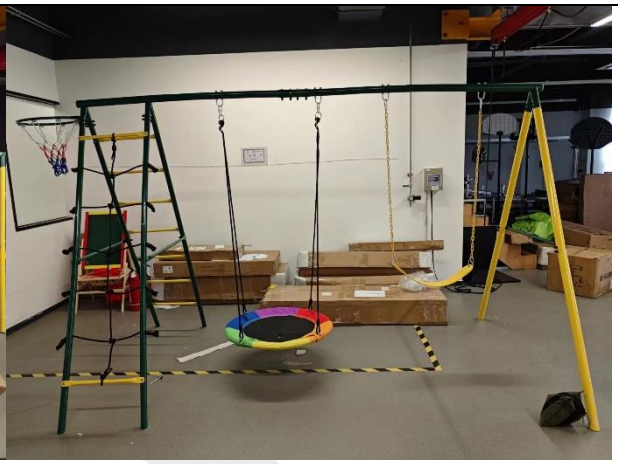
(2) **The results relate only to the Items tested.**

(3) **The test report shall not be reproduced except in full without the written approval of the laboratory**

(4) **Disclaimer Measurement Uncertainty:**
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties.
Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.

Description of Tested Subject:

Photo
 Sample A 344-081V00GN(S027-A)  Sample B 344-082V00YL(S029)
 Sample C 344-083V00RD(S033)  Sample D 344-084V00YL(S026)

Sample	Description
001	Silvery color metal excluding coating. (all main parts of the frame & seat mat frame-A/B/C/D)
002	Silvery color metal with golden color plating. (screw & nut & gasket & tent stake-A/B/C/D)
003	Silvery color metal. (hook & ring & "8"shape hook & "U"shape hook & screw & gasket & seat pipe-A/B/C/D)
004	Silvery color metal. (chain-A/B/D)
005	White rope. (basketball net-A/B/D)
006	Red rope. (basketball net-A/B/D)
007	Blue rope. (basketball net-A/B/D)
008	Blue woven coated fabric. (seat mat body-A/B)
009	Green woven coated fabric. (seat mat body-C)
010	Bright blue fabric. (tape on seat mat-A)
011	Black Velcro. (Velcro-loop-A/B/C/D)
012	Black Velcro. (Velcro-hook-A/B/C/D)
013	Yellow plastic. (link-C)
014	Black plastic. (nut cap & slide pipe endpiece & climb pipe endpiece & seat's hole & on rope-A/B/C/D)
015	Deep blue plastic. (slide-C)
016	Green plastic. (teeterboard seat & pedal & seat & triangle ring-A/D)
017	Cream plastic. (protector-C)
018	Yellow plastic. (seat-B/D)
019	Deep blue plastic. (seat-A)
020	Black plastic. (rope-A/B/C/D)
021	Black mesh plastic. (seat mat-A/B/C)
022	Bright blue plastic. (seat mat body-D)
023	Green soft plastic. (pipe endpiece-D)
024	White soft plastic. (pipe endpiece-A/B/C/D)
025	Yellow soft plastic. (chain-A/B/D)
026	White foam. (on seat-D)
027	Dark grey foam. (on seat-A/B/C)
028	Blue foam. (on seat-A/B/C)
029	White paint. (accessory-D)
030	Green coating on metal. (frame pipe-A/B/D)
031	Yellow coating on metal. (frame pipe-B/D)
032	Black coating on metal. (seat pipe-A/B/C/D)
033	Blue paint (accessory-C)

Test Result(s):

1. ASTM F963-17 Physical and mechanical test

Sample A

Clause	Requirement	Evaluation
4	Safety Requirements	
4.1	Material quality	P
4.7	Accessible edges	P
4.7.1	Potential sharp metal and glass	P
4.7.4	Molded toys	P
4.9	Accessible points	P
4.9.1	Potential sharp point (under 8 years of age)	P
4.11	Nails and fasteners	P
4.15	Stability and overload requirements	P
4.15.1	Stability of ride-on toys and toy seats	P
4.15.2	Sideway stability requirements (60 months of age or less)	P
4.15.3	Fore and aft stability (60 months of age or less)	P
4.15.5	Overload requirements for ride-on toys and toy seats	P
5	Labeling Requirements	
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirement	P
5.8	Toys intended to be assembled by an adult	P
5.16	Promotional materials	P
6	Instructional Literature	
6.1	Definition and description	P
6.4	Toys intended to be assembled by an adult	P
7	Producer's Marking	
7.1	Name and address of the producer or distributor	P

*** Abbreviation:**

P = Pass, NA = Not Applicable

Note:

- Only applicable clauses were shown.

Sample C

Clause	Requirement	Evaluation
4	Safety Requirements	
4.1	Material quality	P
4.7	Accessible edges	P
4.7.1	Potential sharp metal and glass	P
4.7.4	Molded toys	P
4.9	Accessible points	P
4.9.1	Potential sharp point (under 8 years of age)	P
4.11	Nails and fasteners	P
4.15	Stability and overload requirements	P
4.15.1	Stability of ride-on toys and toy seats	P
4.15.2	Sideway stability requirements (60 months of age or less)	P
4.15.3	Fore and aft stability (60 months of age or less)	P

Clause	Requirement	Evaluation
4.15.5	Overload requirements for ride-on toys and toy seats	P
5	Labeling Requirements	
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirement	P
5.8	Toys intended to be assembled by an adult	P
5.16	Promotional materials	P
6	Instructional Literature	
6.1	Definition and description	P
6.4	Toys intended to be assembled by an adult	P
7	Producer's Marking	
7.1	Name and address of the producer or distributor	P

*** Abbreviation:**
P = Pass, NA = Not Applicable

Note:
- Only applicable clauses were shown.

Sample D

Clause	Requirement	Evaluation
4	Safety Requirements	
4.1	Material quality	P
4.7	Accessible edges	P
4.7.1	Potential sharp metal and glass	P
4.7.4	Molded toys	P
4.9	Accessible points	P
4.9.1	Potential sharp point (under 8 years of age)	P
4.11	Nails and fasteners	P
4.15	Stability and overload requirements	P
4.15.1	Stability of ride-on toys and toy seats	P
4.15.2	Sideway stability requirements (60 months of age or less)	P
4.15.3	Fore and aft stability (60 months of age or less)	P
4.15.5	Overload requirements for ride-on toys and toy seats	P
5	Labeling Requirements	
5.2	Age Grading Labeling	P
5.3	Safety Labeling Requirement	P
5.8	Toys intended to be assembled by an adult	P
5.16	Promotional materials	P
6	Instructional Literature	
6.1	Definition and description	P
6.4	Toys intended to be assembled by an adult	P
7	Producer's Marking	
7.1	Name and address of the producer or distributor	P

*** Abbreviation:**
P = Pass, NA = Not Applicable

Note:
- Only applicable clauses were shown.

2. ASTM F963-17 Flammability test

Sample A

Clause	Requirement	Evaluation
4.2	Flammability	
—	Annex A5 (16 CFR 1500.44)	P

*** Abbreviation:**
P = Pass, NA = Not Applicable

Note:
- Only applicable clauses were shown.

Sample C

Clause	Requirement	Evaluation
4.2	Flammability	
—	Annex A5 (16 CFR 1500.44)	P

*** Abbreviation:**
P = Pass, NA = Not Applicable

Note:
- Only applicable clauses were shown.

Sample D

Clause	Requirement	Evaluation
4.2	Flammability	
—	Annex A5 (16 CFR 1500.44)	P

*** Abbreviation:**
P = Pass, NA = Not Applicable

Note:
- Only applicable clauses were shown.

3. ASTM F963-17 Section 4.3.5.1(1) - Total Lead Content Test (Paint and Similar Surface Coating Materials)

Test with reference to CPSC-CH-E1003-09.1, determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				029+033	030+031+032
Lead	mg/kg	10.0	90	<10.0	<10.0
Conclusion				**Pass**	**Pass**

4. ASTM F963-17 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)

Test with reference to CPSC-CH-E1001-08.3,CPSC-CH-E1002-08.3, determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				001+002	003+004
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				008+009
Lead	mg/kg	10.0	100	<10.0
Conclusion				**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				012	013+015+016
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				014+018	017+019+022
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				020+021	023
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				024+025	026+028
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				027
Lead	mg/kg	10.0	100	10.3
Conclusion				**Pass**

5. ASTM F963-17 Section 4.3.5 - Heavy Element (Soluble Heavy Element)

Test with reference to ASTM F963-17 Section 8.3 for soluble heavy elements

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	17.2	14.1
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			007	008
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	7.10	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			009	010
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	5.10	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			013	014
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			015	016
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			017	018
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			019	020
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			021	022
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			023	024
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			025	026
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	10.8
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			027	028
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Note: Mass of trace amount of sample 028 is 100.00 mg

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			030	031
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	353	326
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			032
Soluble Antimony (Sb)	5.0	60	<5.0
Soluble Arsenic (As)	2.5	25	<2.5
Soluble Barium (Ba)	5.0	1000	550
Soluble Cadmium (Cd)	5.0	75	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0
Soluble Lead (Pb)	5.0	90	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0
Soluble Selenium (Se)	5.0	500	<5.0
Conclusion			**Pass**

Remark: 1. Adjusted Analytical Result

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 ASTM F963-17.	
029	White paint. (accessory)
033	Blue paint (accessory)

6. Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 - Tracking labels for children's products

Sample A

Section	Requirement	Evaluation
Tracking labels for children's product	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008	Pass

Note:

- The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

Sample C

Section	Requirement	Evaluation
Tracking labels for children's product	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008	Pass

Note:

- The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

Sample D

Section	Requirement	Evaluation
Tracking labels for children's product	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008	Pass

Note:

- The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

7. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in paint/similar surface coating material

Test with reference to CPSC-CH-E1003-09.1 and determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				029+033	030+031+032
Lead (Pb)	mg/kg	10	90	<10	<10
Conclusion				**Pass**	**Pass**

8. Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 101 - Total Lead Content Test in substrate materials

Test with reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				001+002	003+004
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				008+009
Lead	mg/kg	10.0	100	<10.0
Conclusion				**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				012	013+015+016
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				014+018	017+019+022
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				020+021	023
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				024+025	026+028
Lead	mg/kg	10.0	100	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				027
Lead	mg/kg	10.0	100	10.3
Conclusion				**Pass**

9. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to CPSC-CH-C1001-09.4, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					008+009
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005
Conclusion					**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	013+015+016
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					014+018	017+019+022
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005

Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Parameter	**CAS No.**	**Unit**	**MDL**	**Limit**	**Result(s)**	
					020+021	**023**
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Parameter	**CAS No.**	**Unit**	**MDL**	**Limit**	**Result(s)**	
					024+025	**026+028**
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Parameter	**CAS No.**	**Unit**	**MDL**	**Limit**	**Result(s)**	
					027	**029+033**
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005

Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					030+031+032
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005
Conclusion					**Pass**

10. Canada Toys Regulations SOR/2011-17 Mechanical, physical and flammability test

Sample B

Clause	Requirement	Evaluation
8	Metal edges	P
10	Plastic edges	P
13	Fasteners	P
21	Celluloid or cellulose nitrate, other than ping-pong ball	P
32	Flammability of outer covering	P

*** Abbreviation:**

P = Pass, NA = Not Applicable

Note:

- Only applicable clauses were shown.

11. Canada Toys Regulations SOR/2011-17 Section 23 -Total Lead, Mercury

Test with reference to Method C-02.2& C-02.3 (total Pb), Method C-07(total Hg), determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				030	031
Total Lead (Pb)	mg/kg	5.0	90	8.0	13.6
Total Mercury (Hg)	mg/kg	10.0	10	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				032
Total Lead (Pb)	mg/kg	5.0	90	6.6
Total Mercury (Hg)	mg/kg	10.0	10	<10.0
Conclusion				**Pass**

12. Canada Toys Regulations SOR/2011-17 Section 23 -Soluble Heavy Metals

Test with reference to ASTM F963-17 Section 8.3 for soluble heavy metal, determination by ICP-OES/ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			030	031
Soluble Antimony (Sb)	5.0	1000	<5.0	<5.0
Soluble Arsenic (As)	2.5	1000	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	353	326
Soluble Cadmium (Cd)	5.0	1000	<5.0	<5.0
Soluble Selenium (Se)	5.0	1000	<5.0	<5.0
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			032
Soluble Antimony (Sb)	5.0	1000	<5.0
Soluble Arsenic (As)	2.5	1000	<2.5
Soluble Barium (Ba)	5.0	1000	550
Soluble Cadmium (Cd)	5.0	1000	<5.0
Soluble Selenium (Se)	5.0	1000	<5.0
Conclusion			**Pass**

13. Canada Surface Coating Materials Regulations (SOR/2016-193)- Total Lead & Mercury Content

Test with reference to Health Canada, Product Safety Reference Manual Book 5 -Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.2& C-02.3 (total Pb) and Method C-07(total Hg), determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				030	031
Total Lead (Pb)	mg/kg	5.0	90	8.0	13.6
Total Mercury (Hg)	mg/kg	10.0	10	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				032
Total Lead (Pb)	mg/kg	5.0	90	6.6
Total Mercury (Hg)	mg/kg	10.0	10	<10.0
Conclusion				**Pass**

14. Canada Consumer Products Containing Lead Regulations (SOR/2018-83)-Total Lead Content

With reference to Health Canada, Product Safety Reference Manual Book 5 -Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.2&C-02.3&C-02.4, determination by ICP-OES/ICP-MS.

Parameter	Unit	MDL	Limit	Result(s)	
				001+002	003+004
Total Lead (Pb)	mg/kg	5.0	90	<5.0	<5.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				008
Total Lead (Pb)	mg/kg	5.0	90	<5.0
Conclusion				**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				012	014+018
Total Lead (Pb)	mg/kg	5.0	90	7.0	<5.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				020+021	024+025
Total Lead (Pb)	mg/kg	5.0	90	<5.0	<5.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				027
Total Lead (Pb)	mg/kg	5.0	90	10.3
Conclusion				**Pass**

Parameter	Unit	MDL	Limit	Result(s)	
				030	031
Total Lead (Pb)	mg/kg	5.0	90	8.0	13.6
Total Mercury (Hg)	mg/kg	10.0	10	<10.0	<10.0
Conclusion				**Pass**	**Pass**

Parameter	Unit	MDL	Limit	Result(s)
				032
Total Lead (Pb)	mg/kg	5.0	90	6.6
Total Mercury (Hg)	mg/kg	10.0	10	<10.0
Conclusion				**Pass**

15. Canada Phthalates Regulations (SOR/2016-188)- Phthalates Content

With reference to in house method, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					008
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	<0.005
Conclusion					**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	014+018
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					020+021	024+025
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)

					027	030+031+032
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	<0.005	<0.005
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	<0.005	<0.005
Conclusion					**Pass**	**Pass**

16. EN 71-1:2014+A1:2018 Mechanical and Physical Properties

Sample B

Clause	Requirement	Evaluation
4	General Requirements	
4.1	Material cleanliness	P
4.2	Assembly	P
4.7	Edges	P
4.8	Points and metallic wires	P
7	Warnings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P

*** Abbreviation:**
P = Pass, NA = Not Applicable
Note:
- Only applicable clauses were shown.
Remark:
Labelling requirement (Washing/Cleaning instruction, CE marking, Importer / Manufacturer name and address, Product identification) according to the Directive 2009/48/EC-Safety of toys.

	Result (On Product)	Result (On Package)
CE Marking	Absent	Present
Manufacturer's Name and Address	Present	Present
Importer's Name and Address	Absent	Absent
Product Identification	Present	Present
The following marking shall be fulfilled. - The CE marking is 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 to the packaging, or to the counter display. - The manufacturer's name and address, importer's name and address in the EU shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. - The toys shall 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.		

	Result (On Product)	Result (On Package)
Washing/Cleaning instruction	Not Applicable	Not Applicable
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.		

17. EN 71-2:2020 Flammability

Sample B

Clause	Requirement	Evaluation
4.1	General Requirement	P

*** Abbreviation:**
P = Pass, NA = Not Applicable
Note:
- Only applicable clauses were shown.

18. EN 71-3:2019+A1:2021- Migration of certain elements

Test with reference to EN 71-3:2019+A1:2021, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			005	006
Soluble Aluminum	5.00	28130	5.48	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	24.6	20.2

Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	0.300	0.176
Soluble Chromium III	0.04	460	0.300	0.176
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	12.8	5.15
Conclusion			**Pass**	**Pass**

Parameter	**MDL [mg/kg]**	**Limit [mg/kg]**	**Result(s) [mg/kg]**	
			007	**008**
Soluble Aluminum	5.00	28130	<5.00	5.10
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	10.1	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	0.129	0.305
Soluble Chromium III	0.04	460	0.129	0.305
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			**Pass**	**Pass**

Parameter	**MDL [mg/kg]**	**Limit [mg/kg]**	**Result(s) [mg/kg]**
			010
Soluble Aluminum	5.00	28130	<5.00
Soluble Antimony	5.00	560	<5.00
Soluble Arsenic	5.00	47	<5.00
Soluble Barium	5.00	18750	5.80

Soluble Boron	5.00	15000	<5.00
Soluble Cadmium	5.00	17	<5.00
Soluble Chromium	0.04	-	0.160
Soluble Chromium III	0.04	460	0.160
Soluble Chromium VI	0.04	0.053	<0.04
Soluble Cobalt	5.00	130	<5.00
Soluble Copper	5.00	7700	<5.00
Soluble Lead	5.00	23	<5.00
Soluble Manganese	5.00	15000	<5.00
Soluble Mercury	5.00	94	<5.00
Soluble Nickel	5.00	930	<5.00
Soluble Selenium	5.00	460	<5.00
Soluble Strontium	5.00	56000	<5.00
Soluble Tin	2.50	180000	<2.50
Organic Tin	7.50	12	<7.50
Soluble Zinc	5.00	46000	<5.00
Conclusion			**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			011	012
Soluble Aluminum	5.00	28130	<5.00	7.46
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	7.28	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	0.213	0.224
Soluble Chromium III	0.04	460	0.213	0.224
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	6.12	<5.00
Conclusion			**Pass**	**Pass**

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			014	018
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	5.72	<5.00

Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	0.135	<0.04
Soluble Chromium III	0.04	460	0.135	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			**Pass**	**Pass**

Parameter	**MDL [mg/kg]**	**Limit [mg/kg]**	**Result(s) [mg/kg]**	
			020	**021**
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	<0.04	0.083
Soluble Chromium III	0.04	460	<0.04	0.083
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			**Pass**	**Pass**

Parameter	**MDL [mg/kg]**	**Limit [mg/kg]**	**Result(s) [mg/kg]**	
			024	**025**
Soluble Aluminum	5.00	28130	<5.00	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00

Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	0.098	0.043
Soluble Chromium III	0.04	460	0.098	0.043
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	68.6
Conclusion			**Pass**	**Pass**

Parameter	**MDL [mg/kg]**	**Limit [mg/kg]**	**Result(s) [mg/kg]**	
			027	**030**
Soluble Aluminum	5.00	28130	<5.00	19.5
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	505
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	0.252	1.78
Soluble Chromium III	0.04	460	0.252	1.78
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	8.34
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	48.1
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	6.43	85.6
Conclusion			**Pass**	**Pass**

Parameter	**MDL [mg/kg]**	**Limit [mg/kg]**	**Result(s) [mg/kg]**	
			031	**032**
Soluble Aluminum	5.00	28130	48.4	39.6
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	466	786

Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium	0.04	-	1.27	1.65
Soluble Chromium III	0.04	460	1.27	1.65
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	133	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	7.18
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	80.8	7.31
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	31.1	3050
Conclusion			**Pass**	**Pass**

19. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Item 23 - Cadmium Content

Test with reference to EN 1122:2001 Method B, determination by ICP-OES

Specimen No.	Unit	MDL	Limit	Result(s)	Conclusion
008	mg/kg	10	100	<10.0	**Pass**
012	mg/kg	10	100	<10.0	**Pass**
014+018	mg/kg	10	100	<10.0	**Pass**
020+021	mg/kg	10	100	<10.0	**Pass**
024+025	mg/kg	10	100	<10.0	**Pass**
027	mg/kg	10	100	<10.0	**Pass**
030+031+032	mg/kg	10	1000	<10.0	**Pass**

20. Regulation (EC) No.1907/2006 (REACH) Annex XVII, Items 51 and 52 - Phthalates Content

Test with reference to in house method, solvent extraction and determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					008
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	**0.1**	**<0.005**
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	**0.1**	**<0.005**
Conclusion					**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	014+018
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	**0.1**	**<0.005**	**<0.005**
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	<0.005	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	<0.005	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	**0.1**	**<0.005**	**<0.005**
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					020+021	024+025
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	**0.1**	**<0.005**	**<0.005**
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	<0.005	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	<0.005	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	**0.1**	**<0.005**	**<0.005**
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					027	030+031+032
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	**0.1**	**<0.005**	**<0.005**
Di-isononyl phthalate, DINP	28553-12-0	%	0.005	-	<0.005	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0	%	0.005	-	<0.005	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	**0.1**	**<0.005**	**<0.005**
Conclusion					**Pass**	**Pass**

21. Content of 15 PAHs (Polycyclic Aromatic Hydrocarbons)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					008
Naphthalene	91-20-3	mg/kg	0.1	1	<0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	<0.1
Anthracene	120-12-7	mg/kg	0.1	-	<0.1
Fluoranthene	206-44-0	mg/kg	0.1	-	<0.1
Pyrene	129-00-0	mg/kg	0.1	-	<0.1
Sum of 4 PAHs	-	mg/kg	0.1	**1**	**<0.1**
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	<0.1
Chrysene	218-01-9	mg/kg	0.1	0.2	<0.1
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	<0.1
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	<0.1
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	<0.1
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	<0.1
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	<0.1
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	<0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	<0.1
Sum of detected 15 PAHs	-	mg/kg	0.1	**1**	**<0.1**
Conclusion					**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					014	018
Naphthalene	91-20-3	mg/kg	0.1	1	<0.1	<0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	0.1	<0.1
Anthracene	120-12-7	mg/kg	0.1	-	<0.1	<0.1
Fluoranthene	206-44-0	mg/kg	0.1	-	<0.1	<0.1
Pyrene	129-00-0	mg/kg	0.1	-	0.1	<0.1
Sum of 4 PAHs	-	mg/kg	0.1	**1**	**0.2**	**<0.1**
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	<0.1	<0.1
Chrysene	218-01-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	<0.1	<0.1
Sum of detected 15 PAHs	-	mg/kg	0.1	**1**	**0.2**	**<0.1**
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					020	021
Naphthalene	91-20-3	mg/kg	0.1	1	<0.1	0.5
Phenanthrene	85-01-8	mg/kg	0.1	-	<0.1	0.3
Anthracene	120-12-7	mg/kg	0.1	-	<0.1	<0.1
Fluoranthene	206-44-0	mg/kg	0.1	-	<0.1	<0.1
Pyrene	129-00-0	mg/kg	0.1	-	<0.1	<0.1
Sum of 4 PAHs	-	mg/kg	0.1	**1**	**<0.1**	**0.3**
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	<0.1	<0.1
Chrysene	218-01-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	<0.1	<0.1
Sum of detected 15 PAHs	-	mg/kg	0.1	**1**	**<0.1**	**0.8**
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					025	027
Naphthalene	91-20-3	mg/kg	0.1	1	<0.1	<0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	<0.1	0.1
Anthracene	120-12-7	mg/kg	0.1	-	<0.1	<0.1
Fluoranthene	206-44-0	mg/kg	0.1	-	<0.1	<0.1
Pyrene	129-00-0	mg/kg	0.1	-	<0.1	<0.1
Sum of 4 PAHs	-	mg/kg	0.1	**1**	**<0.1**	**0.1**
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	<0.1	<0.1
Chrysene	218-01-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	<0.1	<0.1
Sum of detected 15 PAHs	-	mg/kg	0.1	**1**	**<0.1**	**0.1**
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					030	031
Naphthalene	91-20-3	mg/kg	0.1	1	<0.1	<0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	<0.1	<0.1
Anthracene	120-12-7	mg/kg	0.1	-	<0.1	<0.1
Fluoranthene	206-44-0	mg/kg	0.1	-	<0.1	<0.1

Pyrene	129-00-0	mg/kg	0.1	-	<0.1	<0.1
Sum of 4 PAHs	-	mg/kg	0.1	**1**	**<0.1**	**<0.1**
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.2	<0.1	<0.1
Chrysene	218-01-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.2	<0.1	<0.1
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.2	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.2	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.2	<0.1	<0.1
Sum of detected 15 PAHs	-	mg/kg	0.1	**1**	**<0.1**	**<0.1**
Conclusion					**Pass**	**Pass**

Parameter	**CAS No.**	**Unit**	**MDL**	**Limit**	**Result(s)**	
					012	**024**
Naphthalene	91-20-3	mg/kg	0.1	10	<0.1	<0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	0.2	<0.1
Anthracene	120-12-7	mg/kg	0.1	-	<0.1	<0.1
Fluoranthene	206-44-0	mg/kg	0.1	-	<0.1	<0.1
Pyrene	129-00-0	mg/kg	0.1	-	<0.1	<0.1
Sum of 4 PAHs	-	mg/kg	0.1	**20**	**0.2**	**<0.1**
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.5	<0.1	<0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.5	<0.1	<0.1
Sum of detected 15 PAHs	-	mg/kg	0.1	**20**	**0.2**	**<0.1**
Conclusion					**Pass**	**Pass**

Parameter	**CAS No.**	**Unit**	**MDL**	**Limit**	**Result(s)**
					032
Naphthalene	91-20-3	mg/kg	0.1	10	<0.1
Phenanthrene	85-01-8	mg/kg	0.1	-	<0.1
Anthracene	120-12-7	mg/kg	0.1	-	<0.1
Fluoranthene	206-44-0	mg/kg	0.1	-	<0.1
Pyrene	129-00-0	mg/kg	0.1	-	<0.1
Sum of 4 PAHs	-	mg/kg	0.1	**20**	**<0.1**
Benzo[a]anthracene	56-55-3	mg/kg	0.1	0.5	<0.1
Chrysene	218-01-9	mg/kg	0.1	0.5	<0.1
Benzo[b]fluoranthene	205-99-2	mg/kg	0.1	0.5	<0.1
Benzo[j]fluoranthene	205-82-3	mg/kg	0.1	0.5	<0.1

Benzo[k]fluoranthene	207-08-9	mg/kg	0.1	0.5	<0.1
Benzo[a]pyrene	50-32-8	mg/kg	0.1	0.5	<0.1
Benzo[e]pyrene	192-97-2	mg/kg	0.1	0.5	<0.1
Benzo[ghi]perylene	191-24-2	mg/kg	0.1	0.5	<0.1
dibenzo[ah]anthracene	53-70-3	mg/kg	0.1	0.5	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.1	0.5	<0.1
Sum of detected 15 PAHs	-	mg/kg	0.1	**20**	**<0.1**
Conclusion					**Pass**

1. Limit according to AfPS GS 2019:01PAK :

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be taken into the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles intended for the use by children up to 3 years of age having long-term skin contact (more than 30s) within intended use	Materials that do not fall into category 1, with long-term skin contact (more than 30s) or repeated short-term skin contact within intended or foreseeable use		Materials that do neither fall into category 1 nor 2, with short-term skin contact (up to 30s) within foreseeable use	
		Used by children (mg/kg)	Other consumer products (mg/kg)	Used by children (mg/kg)	Other consumer products (mg/kg)
Benzo[a]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[e]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[a]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[b]fluoroanthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[j]fluoroanthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[k]fluoroanthene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo[a,h]anthracene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo[g,h,i]perylene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno[1,2,3-c,d]pyrene	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Naphthalene	< 1	< 2		< 10	
Sum 15 PAH	< 1	< 5	< 10	< 20	< 50

22. Regulation (EC) No.1907/2006 (REACH) Annex XVII, item 50 - Polycyclic Aromatic Hydrocarbons (PAHs)

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					008
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1
Conclusion					**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012	014
Benzo[b]fluoranthene (BbFA)	205-99-2	<0.1	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	<0.1	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	<0.1	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	<0.1	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	<0.1	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	<0.1	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	<0.1	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	<0.1	0.1	0.5	<0.1	<0.1
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018	020
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					021	024
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					025	027
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					030	031
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Conclusion					**Pass**	**Pass**

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					032
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1
Conclusion					**Pass**

23. Regulation (EC) No.1907/2006 (REACH) Annex XVII, item 43 - Azodyes

Test with reference to EN ISO 14362-1:2017

No.	Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s)[mg/kg]	
					006+007	008+010
1	4-aminobiphenyl	92-67-1	5.0	30	<5.0	<5.0
2	Benzidine	92-87-5	5.0	30	<5.0	<5.0
3	4-chloro-o-toluidine	95-69-2	5.0	30	<5.0	<5.0
4	2-naphthylamine	91-59-8	5.0	30	<5.0	<5.0
5	o-aminoazotoluene	97-56-3	5.0	30	<5.0	<5.0
6	5-nitro-o-toluidine	99-55-8	5.0	30	<5.0	<5.0
7	4-chloroaniline	106-47-8	5.0	30	<5.0	<5.0
8	2,4-diaminoanisole	615-05-4	5.0	30	<5.0	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	5.0	30	<5.0	<5.0
10	3,3'-dichlorobenzidine	91-94-1	5.0	30	<5.0	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	5.0	30	<5.0	<5.0
12	3,3'-dimethylbenzidine	119-93-7	5.0	30	<5.0	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	5.0	30	<5.0	<5.0
14	p-cresidine	120-71-8	5.0	30	<5.0	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	5.0	30	<5.0	<5.0
16	4,4'-oxydianiline	101-80-4	5.0	30	<5.0	<5.0
17	4,4'-thiodianiline	139-65-1	5.0	30	<5.0	<5.0
18	o-toluidine	95-53-4	5.0	30	<5.0	<5.0
19	2,4-toluenediamine	95-80-7	5.0	30	<5.0	<5.0
20	2,4,5-trimethylaniline	137-17-7	5.0	30	<5.0	<5.0
21	2-methoxyaniline	90-04-0	5.0	30	<5.0	<5.0
22	2,4-xylidine	95-68-1	5.0	30	<5.0	<5.0
23	2,6-xylidine	87-62-7	5.0	30	<5.0	<5.0
24	4-aminoazobenzene	60-09-3	5.0	30	<5.0	<5.0
Conclusion					**Pass**	**Pass**

No.	Prohibited Amines	CAS No.	MDL [mg/kg]	Limit [mg/kg]	Result(s)[mg/kg]
					011+012
1	4-aminobiphenyl	92-67-1	5.0	30	<5.0
2	Benzidine	92-87-5	5.0	30	<5.0
3	4-chloro-o-toluidine	95-69-2	5.0	30	<5.0
4	2-naphthylamine	91-59-8	5.0	30	<5.0
5	o-aminoazotoluene	97-56-3	5.0	30	<5.0
6	5-nitro-o-toluidine	99-55-8	5.0	30	<5.0
7	4-chloroaniline	106-47-8	5.0	30	<5.0
8	2,4-diaminoanisole	615-05-4	5.0	30	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	5.0	30	<5.0
10	3,3'-dichlorobenzidine	91-94-1	5.0	30	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	5.0	30	<5.0
12	3,3'-dimethylbenzidine	119-93-7	5.0	30	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	5.0	30	<5.0
14	p-cresidine	120-71-8	5.0	30	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	5.0	30	<5.0
16	4,4'-oxydianiline	101-80-4	5.0	30	<5.0
17	4,4'-thiodianiline	139-65-1	5.0	30	<5.0
18	o-toluidine	95-53-4	5.0	30	<5.0
19	2,4-toluenediamine	95-80-7	5.0	30	<5.0
20	2,4,5-trimethylaniline	137-17-7	5.0	30	<5.0
21	2-methoxyaniline	90-04-0	5.0	30	<5.0
22	2,4-xylidine	95-68-1	5.0	30	<5.0
23	2,6-xylidine	87-62-7	5.0	30	<5.0
24	4-aminoazobenzene	60-09-3	5.0	30	<5.0
Conclusion					**Pass**

Interpretation of test results:

(1) In the case of the measured value per amine component ≤30 mg/kg and according to the analysis carried out, the azo colourants banned under the Annex XVII of Regulation (EC) No. 1907/2006, REACH are not detected in the article submitted.

(2) Banned AZO dyes in accordance to REACH regulation (EC) No. 1907/2006 and Amendment No. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)

24. EN 71-8:2018 Activity toys for domestic use

Sample B

Clause	Requirement	Evaluation
4	Requirements	-
4.1	General	-
4.1.1	Assembly	P
4.1.2	Static strength	NA
4.1.3	Maximum height	P
4.1.4	Corners and edges	P
4.1.5	Protruding parts	P
4.1.6	Diameter of ropes and other means of suspension	P
4.1.7	Water accumulation	P
4.2	Barriers, handrails and ladders and similar means of access to activity toys	-

Clause	Requirement	Evaluation
4.2.1	Barriers and handrails preventing the child from falling down	NA
4.2.2	Ladders and similar means of access to activity toy	P
4.3	Entrapment	-
4.3.1	Entrapment of head and neck	P
4.3.2	Entrapment of clothing and hair	NA
4.3.3	Entrapment of feet	P
4.3.4	Entrapment of fingers	P
4.4	Stability of activity toys other than slides, swings and activity toys with crossbeams, and see-saws	-
4.4.2	Stability of activity toys with a free height of fall of 600 mm or less	NA
4.4.3	Stability of activity toys with a free height of fall of more than 600 mm	NA
4.5	Slides	-
4.5.2	Stability of slides	NA
4.5.3	Retaining sides for slides	NA
4.5.4	Starting, siding and run-out sections on slides	NA
4.6	Swings	-
4.6.1	Stability of swings and other activity toys with crossbeams	P
4.6.2	Static strength of crossbeams, swing devices and suspension connectors	P
4.6.4	Minimum clearance between adjacent swing elements, and adjacent structures	P
4.6.5	Lateral stability of swing elements	P
4.6.6	Minimum clearance between swing elements and the ground	P
4.6.7	Suspension connectors and swing devices	P
4.6.8	Impact, geometry and design of swing elements	P
4.7	See-saws	-
4.7.1	Stability of see-saws	NA
4.7.2	Seat/stand height	NA
4.7.3	Restraint of motion	NA
4.7.4	Pinching and crushing of fingers and toes	NA
4.7.5	Hand supports	NA
4.8	Carousels and rocking activity toys	NA
4.9	Paddling pools	-
4.9.1	Static strength of non-inflatable walls	NA
4.9.2	Paddling pools with inflatable walls	NA
5	Warning, markings, and instructions	-
5.1	Warnings and markings	-
5.1.1	General	P
5.1.2	Paddling pools	NA
5.2	Assembly and installation instructions	P
5.3	Maintenance	P

Abbreviation:
P = Pass, NA = Not Applicable

-End of Test Report-