



Applicant : GIGAMIC
 Parc d'activités des Garennes
 22 rue Jean-Marie Bourguignon
 BP 30 - 62930 WIMEREUX - France

Sample Description : TRIOLET - EN version

Item No. : GZFTR-EN

EAN : 3 421271 117926

Country of Origin : China

Country of Destination : Worldwide

Test Sample Receipt Date, Location : 2020-06-04, Shenzhen

Test Period, Location : From 2020-06-05 to 2020-06-16, Shenzhen

Test Result(s) : Refer to Section 3

Purpose of Examination / Conclusion:

No.	Test Item(s)	Conclusion
	Test in accordance with ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	
1.	Mechanical and Physical Properties	Pass
2.	Flammability	Pass
3.	Clause 4.3.5 Heavy Elements Content - Soluble Migrated Elements	Pass
4.	Clause 4.3.5 Heavy Elements Content - Total Lead Content Test according to ASTM F 963-17 Section 8.3.1	Pass
5.	Total Lead Consumer Product Safety Improvement Act of 2008 (Section 101)	Pass
6.	Phthalates U.S. CFR Title 16 Part 1307	Pass
7.	EN 71-1:2014+A1:2018 - Mechanical and Physical Properties	Pass
8.	EN 71-2:2011+A1:2014 - Flammability	Pass
9.	EN 71-3:2019 - Migration of certain elements	Pass



	EN 71-9:2005+A1:2007 Organic chemical compounds - Requirements	
10.	2G - Wood Preservatives A & B	Pass
11.	Polycyclic Aromatic Hydrocarbons (PAHs) Test according to German Committee on Product Safety (AfPS) AfPS GS 2014:01 PAK Solvent extraction followed by GC-MS analysis	Pass
12.	Polycyclic Aromatic Hydrocarbons (PAHs) Test according to German Committee on Product Safety (AfPS) AfPS GS 2019:01 PAK Solvent extraction followed by GC-MS analysis	Pass
13.	Azo Dyes Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009	Pass
14.	Phthalates Regulation (EC) No.1907/2006 and its amendment Regulation (EC) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52.	Pass
15.	Total Cadmium Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expanded uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.
- (4) Test items and samples were specified by applicant.

Test Report No.: 68.452.20.01133.01

Dated: 2020-06-24



TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:

A handwritten signature in black ink, appearing to read "Eva Liang".

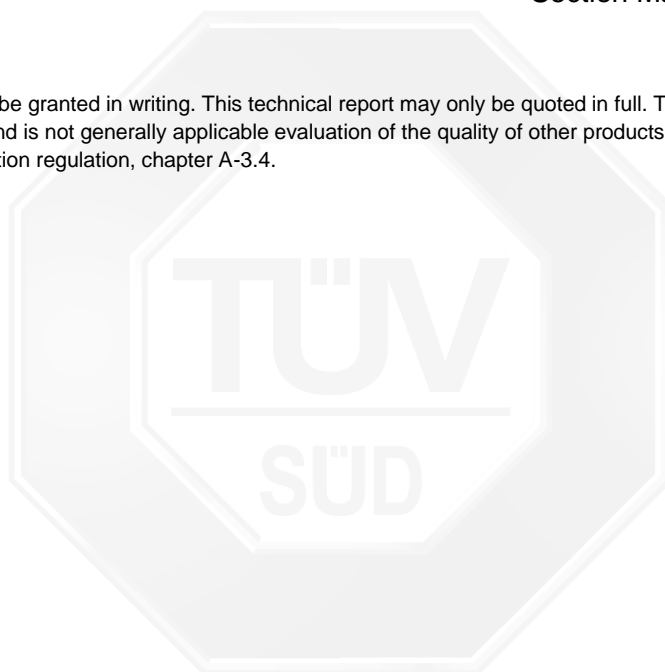


A handwritten signature in black ink, appearing to read "Marlon Zeng".

Eva Liang
Project Manager

Marlon Zeng
Section Manager

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Laboratory:

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys_hardline@tuv-sud.hk

Web : <http://www.tuv-sud.cn>

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, 518052, P. R. China

1. Description of the Test Sample:

Sample Description	TRIOLET - EN version
	



2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	TRIOLET - EN version (Finished product)	
T2	002	Beige wood (substrate of rack)	
T3	003	Light brown wood (substrate of number titles)	
T4	004	Transparent coating (on rack/ number titles)	
T5	005	Blue coating (on number titles)	
T6	006	Black rope (of bag)	
T7	007	Black non-wooden fabric (bag)	

T. No.	Sample No.	Colour and Description	Photograph
T8	008	Blue with multicolor printed white paper with film (surface of game board)	
T9	009	Dark blue paper (backside of game board)	

3. Test Results

Sample:	001
Packaging:	Yes
Labeled age grade:	8+
Appropriate age grading:	Over 8 years
Applicant requested testing age:	Over 8 years
Applied testing age grading:	Over 8 years

3.1 Mechanical and Physical Properties

Test in accordance with ASTM F963-17

Sample 001		
Clause	Title/ Description	Remark*
4	Safety Requirements	
4.1	Material quality	C
4.7	Accessible Edges	C
4.9	Accessible Points	C
4.12	Plastic Film	C
5	Labeling Requirements	
5.16	Promotional Materials	C
6	Instructional Literature	
6.1	Definition and Description	C
7	Producer's Marking	
7.1	Name and address of the producer or distributor shall be shown in the English language at a minimum.	C

* Abbreviation: C = Complied.

Note: Only applicable clauses were shown.

3.2 Flammability

Test in accordance with ASTM F963-17

Sample 001		
Clause	Title/ Description	Remark*
4.2	Flammability The result of the burning rate of the most severe part = IBE	C

* Abbreviation: C = Complied.

Note:

1. Only applicable clause was shown.
2. Maximum permissible burning rate = 0.1 in/sec.
3. (All style of) the sample (and its accessories) were tested, the above result only showed the most severe burn rate.
4. IBE = Ignited but self-extinguished before burn-rate could be determined.

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3.3 ASTM F 963-17 Clause 4.3.5 Heavy Elements Content - Soluble Migrated Elements

3.3.1 Soluble Migrated Elements- For Paint and Similar Surface-Coating Materials:

Test according to ASTM F 963-17 Section 8.3.2 Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES).

Migration Elements	Results [mg/kg]		Maximum Permissible Limits [mg/kg]
	Sample 004	Sample 005	
Soluble Antimony	<5.0	<5.0	60
Soluble Arsenic	<2.5	<2.5	25
Soluble Barium	5.8 [#]	<5.0	1000
Soluble Cadmium	<5.0	<5.0	75
Soluble Chromium	<5.0	<5.0	60
Soluble Lead	<5.0	<5.0	90
Soluble Mercury	<5.0	<5.0	60
Soluble Selenium	<5.0	<5.0	500
Conclusion	Pass	Pass	-

Remarks: The toy material samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation

Actual weight of sample(s) used for analysis which are less than 100 mg.

Sample 005: 10.8mg

Note: 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "##" Value(s) were adjusted with analytical correction factor in ASTM F 963-17 section 8.3.4.3.

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3.3.2 Soluble Migrated Elements- For Substrate Materials:

Test according to ASTM F 963-17 Section 8.3.5 Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 002	Sample 003	Sample 006	
Soluble Antimony	<5.0	<5.0	<5.0	60
Soluble Arsenic	<2.5	<2.5	<2.5	25
Soluble Barium	7.3 [#]	<5.0 [#]	<5.0	1000
Soluble Cadmium	<5.0	<5.0	<5.0	75
Soluble Chromium	<5.0	<5.0	<5.0	60
Soluble Lead	<5.0	<5.0	<5.0	90
Soluble Mercury	<5.0	<5.0	<5.0	60
Soluble Selenium	<5.0	<5.0	<5.0	500
Conclusion	Pass	Pass	Pass	-

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 007	Sample 008	Sample 009	
Soluble Antimony	<5.0	<5.0	<5.0	60
Soluble Arsenic	<2.5	<2.5	<2.5	25
Soluble Barium	<5.0	<5.0	<5.0	1000
Soluble Cadmium	<5.0	<5.0	<5.0	75
Soluble Chromium	<5.0	<5.0	<5.0	60
Soluble Lead	<5.0	<5.0	<5.0	90
Soluble Mercury	<5.0	<5.0	<5.0	60
Soluble Selenium	<5.0	<5.0	<5.0	500
Conclusion	Pass	Pass	Pass	-

Note: 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "[#]" Value(s) were adjusted with analytical correction factor in ASTM F 963-17 section 8.3.4.3.

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3.4 Clause 4.3.5 Heavy Elements Content – Total Lead Content

Test according to ASTM F 963-17 Section 8.3.1

Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)/Atomic Absorption Spectrophotometer (AAS).

[Reporting Limit = 25.0mg/kg]

3.4.1 Paint and Similar Surface-Coating Materials

Analyte	Results [mg/kg]	
	Sample 004	Sample 005
Lead	<25.0	<25.0
Limit	<90	
Conclusion	Pass	Pass

Note: 1. "mg/kg" denotes milligram per kilogram.

2. "<" denotes less than.

3.4.2 Toy Substrate Materials

Analyte	Results [mg/kg]		
	Sample 002+003	Sample 006+007	Sample 008+009
Lead	<25.0	<25.0	<25.0
Limit	<100		
Conclusion	Pass	Pass	Pass

Note: 1. "mg/kg" denotes milligram per kilogram.

2. "<" denotes less than.

3.5 Total Lead

Consumer Product Safety Improvement Act of 2008 (Section 101)

Test in accordance with CPSC-CH-E1003-09.1 (Paint and surface coating),

or CPSC-CH-E1002-08.3 (Non-Metallic components).

[Reporting Limit = 10.0mg/kg]

3.5.1 Lead (Pb) Content in Paints and Coatings Test

Analyte	Results [mg/kg]	
	Sample 004	Sample 005
Lead	<10.0	<10.0
Limit	<90	
Conclusion	Pass	Pass

Note: 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3.5.2 Lead (Pb) Content in Substance Test

Analyte	Results [mg/kg]		
	Sample 002+003	Sample 006+007	Sample 008+009
Lead	<10.0	<10.0	<10.0
Limit	<100		
Conclusion	Pass	Pass	Pass

Note: 1. "mg/kg" denotes milligram per kilogram.

2. "<" denotes less than.

3.6 Phthalates.

U.S. CFR Title 16 Part 1307

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 004	Sample 005	Sample 008	
Dibutyl phthalate, (DBP)	84-74-2	<0.005	<0.005	<0.005	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	<0.005	<0.005	<0.005	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	<0.005	<0.005	0.013	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	<0.005	<0.005	<0.005	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	<0.005	<0.005	<0.005	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	<0.005	<0.005	<0.005	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0, 68515-48-0	<0.005	<0.005	<0.005	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	<0.005	<0.005	<0.005	<0.1
Conclusion		Pass	Pass	Pass	-

Note: 1. "<" denotes less than.

2. "%" denotes percentage by weight.

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Sample:	001
Packaging:	Yes
Labeled age grade:	8+
Appropriate age grading:	Over 8 years
Applicant requested testing age:	Over 8 years
Applied testing age grading:	Over 8 years

3.7 Mechanical and Physical Properties

Test in accordance with EN 71-1:2014 + A1:2018

Sample 001		
Clause	Title/ Description	Remark*
4	General requirements	
4.1	Material Cleanliness	C
4.7	Edges	C
4.8	Points and metallic wires	C
6	Packaging	C
7	Warnings, markings and instructions for use	See Remark ^{#1}
7.1	General	C
7.2	Toys not intended for children under 36 months	C

* Abbreviation: C = Complied

Remark:

^{#1} = Labeling review according to Directive 2009/48/EC - Toy Safety Directives

	On Product	On Packaging	
CE Marking	Absent	Present	
		be visible from outside the packaging	Yes
		Correct format	Yes
Manufacturer's Name and Address	Absent	Present	
Importer's Name and Address	Absent	Present	
Product Identification	Absent	Present	
The following marking shall be fulfilled.			
- The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging, in counter display which shall be subject to the general principles set out in Article 30 of Regulation (EC) No. 765/2008.			
- The manufacturer's name and address, importer's name and address in EEC shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.			
- The 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.			

Note: Only applicable clauses were shown.

3.8 Flammability

Test with reference to EN 71-2:2011 + A1:2014

Sample 001		
Clause	Title/ Description	Remark*
4.1	General	C

* Abbreviation: C = Complied

Note: Only applicable clause was shown.

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Nantou Checkpoint Road 2, 518052, P. R. China

3.9 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2019/1922 on the Safety of Toys

Sample preparation according to EN 71-3:2019 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry (LC-ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 002	Sample 003	Sample 004	Category 3
Soluble Aluminum	5.98	5.48	19.1	28130 [^]
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	10.5	6.56	8.31	18750
Soluble Boron	8.04	5.96	12.3	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	<0.15	<0.15	0.339	-
Soluble Chromium III	<0.15 ^{#1}	<0.15 ^{#1}	0.339 ^{#1}	460
Soluble Chromium VI	<0.04 ^{#1}	<0.04 ^{#1}	<0.04 ^{#1}	0.053
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	138	61.4	18.4	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#2}	<7.50 ^{#2}	<7.50 ^{#2}	12
Soluble Zinc	<5.00	<5.00	22.6	46000
Conclusion	Pass	Pass	Pass	-

Note: 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "[^]" denotes limit will be effective from 20 May, 2021 according to Directive (EU) 2019/1922.

4. "^{#1}" denotes Chromium (VI) is determined by LC-ICP-MS and Chromium (III) is calculated by [Total chromium - Chromium (VI)].

5. "^{#2}" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin.

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3.9 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Directive (EU) 2019/1922 on the Safety of Toys

Sample preparation according to EN 71-3:2019 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry (LC-ICP-MS).

Migration Elements	Results [mg/kg]			Maximum Permissible Limits [mg/kg]
	Sample 005	Sample 006	Sample 007	Category 3
Soluble Aluminum	2050	9.62	<5.00	28130 [^]
Soluble Antimony	<5.00	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	<5.00	18750
Soluble Boron	15.0	8.22	<5.00	15000
Soluble Cadmium	<5.00	<5.00	<5.00	17
Soluble Chromium	0.200	<0.15	<0.15	-
Soluble Chromium III	0.200 ^{#1}	<0.15 ^{#1}	<0.15 ^{#1}	460
Soluble Chromium VI	<0.04 ^{#1}	<0.04 ^{#1}	<0.04 ^{#1}	0.053
Soluble Cobalt	<5.00	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	<5.00	460
Soluble Strontium	<5.00	<5.00	<5.00	56000
Soluble Tin	<3.00	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#2}	<7.50 ^{#2}	<7.50 ^{#2}	12
Soluble Zinc	7.38	<5.00	<5.00	46000
Conclusion	Pass	Pass	Pass	-

Remarks: The toy material samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation

Actual weight of sample(s) used for analysis which are less than 100 mg.

Sample 005: 10.8mg

Note: 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "A" denotes limit will be effective from 20 May, 2021 according to Directive (EU) 2019/1922.

4. "#1" denotes Chromium (VI) is determined by LC-ICP-MS and Chromium (III) is calculated by [Total chromium - Chromium (VI)].

5. "#2" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin.

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3.9 Migration of certain elements

With reference to Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 on the Safety of Toys

Sample preparation with reference to EN 71-3 : 2019 Migration of certain elements.

As stated in the above specifications. Heavy metal analysis was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES), Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry (LC-ICP-MS).

Migration Elements	Results [mg/kg]		Maximum Permissible Limits [mg/kg]
	Sample 008	Sample 009	Category 3
Soluble Aluminum	7.96	102	28130 [^]
Soluble Antimony	<5.00	<5.00	560
Soluble Arsenic	<2.50	<2.50	47
Soluble Barium	<5.00	<5.00	18750
Soluble Boron	9.69	19.1	15000
Soluble Cadmium	<5.00	<5.00	17
Soluble Chromium	<0.15	0.227	-
Soluble Chromium III	<0.15 ^{#1}	0.227 ^{#1}	460
Soluble Chromium VI	<0.04 ^{#1}	<0.04 ^{#1}	0.053
Soluble Cobalt	<5.00	<5.00	130
Soluble Copper	<5.00	<5.00	7700
Soluble Lead	<5.00	<5.00	23
Soluble Manganese	<5.00	<5.00	15000
Soluble Mercury	<5.00	<5.00	94
Soluble Nickel	<5.00	<5.00	930
Soluble Selenium	<5.00	<5.00	460
Soluble Strontium	27.2	<5.00	56000
Soluble Tin	<3.00	<3.00	180000
Organic Tin	<7.50 ^{#2}	<7.50 ^{#2}	12
Soluble Zinc	<5.00	5.34	46000
Conclusion	Pass	Pass	-

Note: 1. "<" denotes less than.

2. "mg/kg" denotes milligram per kilogram.

3. "[^]" denotes limit will be effective from 20 May, 2021 according to Directive (EU) 2019/1922.

4. "^{#1}" denotes Chromium (VI) is determined by LC-ICP-MS and Chromium (III) is calculated by [Total chromium - Chromium (VI)].

5. "^{#2}" denotes Organic Tin is determined by screening of total Tin express as Tributyl Tin.

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3.10 Wood Preservatives (2G) (a) Outdoor limits & (b) Indoor Limits

Extraction method with reference to EN71-10:2005, Clause 8

Analysis method with reference to EN71-11:2005, Clause 5.6

[Reporting Limit = 10mg/kg]

Analyte(s)		CAS No.	Results [mg/kg]		Maximum Permissible Limit [mg/kg]
			Sample 002	Sample 003	
Outdoor Wood preservatives					
1	Pentachlorophenol	76-01-7	<2	<2	2
2	Lindane	58-89-9	<2	<2	2
Indoor Wood preservatives					
3	Cyfluthrin	68359-37-5	<10	<10	10
4	Cypermethrin	52315-07-8	<10	<10	10
5	Deltamethrin	52918-63-5	<10	<10	10
6	Permethrin	52645-53-1	<10	<10	10
Conclusion			Pass	Pass	-

Note:

1. Limit is action limit quoted from EN 71-11:2005 clause 5.6.7.
2. "<" denotes less than.
3. "mg/kg" denotes milligram per kilogram.

3.11 Polycyclic Aromatic Hydrocarbons (PAHs)

Test according to German Committee on Product Safety (AfPS) AfPS GS 2014:01 PAK

Solvent extraction followed by GC-MS analysis

[Reporting Limit = 0.1mg/kg]

Compounds	CAS No.	Results [mg/kg]		
		Sample 004	Sample 005^	Sample 008+009
Naphthalene	91-20-3	0.31	NA	<0.1
Acenaphthylene	208-96-8	<0.1	NA	<0.1
Acenaphthene	83-32-9	<0.1	NA	<0.1
Fluorene	86-73-7	<0.1	NA	<0.1
Phenanthrene	85-01-8	<0.1	NA	<0.1
Anthracene	120-12-7	<0.1	NA	<0.1
Fluoranthene	206-44-0	<0.1	NA	<0.1
Pyrene	129-00-0	<0.1	NA	<0.1
Sum of 7 PAHs	-	<0.1	NA	<0.1
Benzo[a]anthracene	56-55-3	<0.1	NA	<0.1
Chrysene	218-01-9	<0.1	NA	<0.1
Benzo[b]fluoranthene	205-99-2	<0.1	NA	<0.1
Benzo[j]fluoranthene	205-82-3	<0.1	NA	<0.1
Benzo[k]fluoranthene	207-08-9	<0.1	NA	<0.1
Benzo[a]pyrene	50-32-8	<0.1	NA	<0.1
Benzo[e]pyrene	192-97-2	<0.1	NA	<0.1
Benzo[ghi]perylene	191-24-2	<0.1	NA	<0.1
dibenzo[ah]anthracene	53-70-3	<0.1	NA	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	<0.1	NA	<0.1
Sum of detected 18 PAHs	-	0.31	NA	<0.1
Category (Toys according to directive 2009/48/EC)		Category 2	Category 2	Category 2
Conclusion		Pass	Pass	Pass

Note:

1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than
3. "NA" denotes Not Applicable
4. "^" denotes as received, the test portion are less than 50mg, therefore such components were not tested for PAHs content, as specified in the AfPS GS 2014:01 PAK requirement.
5. Limit:

Parameter (mg/kg)	Category 1 Materials which are intended in the mouth, or materials in toys intended and with long-term skin contact (longer than 30 seconds)	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30 s (long-term skin contact) or repeated short term skin contact*		Category 3 Materials not covered by category 1 or 2, with foreseeable skin contact up to 30 seconds short term skin contact	
-	-	Toys according to directive 2009/48/EC	All other products according to Product Safety Act	Toys according to directive 2009/48/EC	All other products according to Product Safety Act
Benzo[a]pyrene, Benzo[e]pyrene Benzo[a]anthracene, Benzo[b]fluoranthene Benzo[j]fluoranthene, Benzo[k]fluoranthene Chrysene, Dibenzo[a,h]anthracene Benzo[ghi] perylen, Indeno[1,2,3-cd] pyrene	Each < 0.2	Each < 0.2	Each < 0.5	Each < 0.5	Each < 1
Naphthalene	<1	<2		<10	
Sum of Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum < 1	Sum < 5	Sum < 10	Sum < 20	Sum < 50
Sum 18 PAHs	<1	<5	<10	<20	<50

Laboratory:

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys_hardline@tuv-sud.hk

Web : http://www.tuv-sud.cn

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Nantou Checkpoint Road 2, 518052, P. R. China

3.12 Polycyclic Aromatic Hydrocarbons (PAHs)

Test with reference to German Committee on Product Safety (AfPS) AfPS GS 2019:01 PAK

Solvent extraction followed by GC-MS analysis

[Reporting Limit = 0.1mg/kg]

Compounds	CAS No.	Results [mg/kg]		
		Sample 004	Sample 005^	Sample 008+009
Naphthalene	91-20-3	0.31	NA	<0.1
Phenanthrene	85-01-8	<0.1	NA	<0.1
Anthracene	120-12-7	<0.1	NA	<0.1
Fluoranthene	206-44-0	<0.1	NA	<0.1
Pyrene	129-00-0	<0.1	NA	<0.1
Sum of 4 PAHs	-	<0.1	NA	<0.1
Benzo[a]anthracene	56-55-3	<0.1	NA	<0.1
Chrysene	218-01-9	<0.1	NA	<0.1
Benzo[b]fluoranthene	205-99-2	<0.1	NA	<0.1
Benzo[j]fluoranthene	205-82-3	<0.1	NA	<0.1
Benzo[k]fluoranthene	207-08-9	<0.1	NA	<0.1
Benzo[a]pyrene	50-32-8	<0.1	NA	<0.1
Benzo[e]pyrene	192-97-2	<0.1	NA	<0.1
Benzo[ghi]perylene	191-24-2	<0.1	NA	<0.1
dibenzo[ah]anthracene	53-70-3	<0.1	NA	<0.1
Indeno[1,2,3-cd]pyrene	193-39-5	<0.1	NA	<0.1
Sum of detected 15 PAHs	-	0.31	NA	<0.1
Category (Children's products)		Category 2	Category 2	Category 2
Conclusion		Pass	Pass	Pass

Note:

1. "mg/kg" denotes milligram per kilogram
2. "<" denotes less than
3. "NA" denotes Not Applicable
4. "^" denotes as received, the test portion are less than 50mg, therefore such components were not tested for PAHs content, as specified in the AfPS GS 2019:01 PAK requirement.
5. Limit:

Parameter (mg/kg)	Category 1 Materials intended to be put into the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for use by children up to three years of age Skin contact (longer than 30s) when used as intended	Category 2 Materials not covered by category 1, with foreseeable skin contact for longer than 30s (long-term skin contact) or repeated short term skin contact*		Category 3 Materials not covered by category 1 or 2, with foreseeable skin contact up to 30s (short term skin contact)	
-		Children's products (<14 years old)	All other products	Children's products (<14 years old)	All other products
Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[j]fluoranthene, Benzo[k]fluoranthene, Chrysene, Dibenzo[a,h]anthracene, Benzo[ghi]perylene, Indeno[1,2,3-cd]pyrene	Each < 0.2	Each < 0.2	Each <0.5	Each <0.5	Each <1
Naphthalene	<1	<2		<10	
Sum of Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum <1	Sum <5	Sum <10	Sum <20	Sum <50
Sum 15 PAHs	<1	<5	<10	<20	<50

3.13 Azo dyes

Regulation (EC) No. 1907/2006, Annex XVII, Entry 43 and its amendment Regulation (EC) No. 552/2009 (Formerly restricted under 2002/61/EC & 2004/21/EC)

Test in accordance with EN ISO 14362-1:2017 (for textiles) or ISO 17234-1:2015 (for leather).

The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

[Reporting Limit = 5.0 mg/kg]

No.	Forbidden Amine	CAS No.	Results [mg/kg]
			Sample 006+007
1	4-aminobiphenyl	92-67-1	<5.0
2	Benzidine	92-87-5	<5.0
3	4-chloro-o-toluidine	95-69-2	<5.0
4	2-naphthylamine	91-59-8	<5.0
5	o-aminoazotoluene	97-56-3	<5.0
6	5-nitro-o-toluidine	99-55-8	<5.0
7	4-chloroaniline	106-47-8	<5.0
8	2,4-diaminoanisole	615-05-4	<5.0
9	4,4'-diaminodiphenylmethane	101-77-9	<5.0
10	3,3'-dichlorobenzidine	91-94-1	<5.0
11	3,3'-Dimethoxybenzidine	119-90-4	<5.0
12	3,3'-dimethylbenzidine	119-93-7	<5.0
13	4,4'-methylenedi-o-toluidine	838-88-0	<5.0
14	p-cresidine	120-71-8	<5.0
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	<5.0
16	4,4'-oxydianiline	101-80-4	<5.0
17	4,4'-thiodianiline	139-65-1	<5.0
18	o-toluidine	95-53-4	<5.0
19	2,4-toluenediamine	95-80-7	<5.0
20	2,4,5-trimethylaniline	137-17-7	<5.0
21	2-methoxyaniline	90-04-0	<5.0
22	2,4-xylidine*	95-68-1	<5.0
23	2,6-xylidine*	87-62-7	<5.0
24	4-aminoazobenzene [#]	60-09-3	<5.0
Method			EN ISO 14362-1/ 3:2017
Limit			< 30 mg/kg
Conclusion			Pass

Note:

1. “#” denotes 2,4-xylidine and 2,6-xylidine are not under Regulation (EC) No.1907/2006 and they are for client's reference.
2. “<” denotes less than
3. “mg/kg” denotes milligram per kilogram

* Azo colorants that are able to form 4-aminoazobenzene, as generated under the current testing condition stated in EN ISO 14362-1:2017 are aniline and 1,4-phenylenediamine. The presence of 4-aminoazobenzene is determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

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) In the case of the measured value per amine component > 30 mg/kg, the analysis result suggests that the submitted article was manufactured or treated with the azo colourants banned under Annex XVII of Regulation (EC) No. 1907/2006, REACH
- (3) In the case of the measured value per amine component being between 25 and 35 mg/kg, it is remarked that due to the inherent uncertainty of the detection method, the value represent a border line case.

Laboratory:

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Regd. Office:

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3.14 Phthalates.

Regulation (EC) No.1907/2006 and its amendment

Regulation (EC) No. 2018/2005 (REACH) Annex XVII, Entry 51 and 52.

Solvent extraction and GC-MS analysis.

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 004	Sample 005	Sample 008	
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	<0.005	<0.005	0.013	Sum of DEHP, DBP, BBP & DIBP: <0.1% by weight ^{#1}
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	<0.005	0.013	Sum of DINP, DIDP & DNOP: <0.1% by weight ^{#2}
Di-isononyl phthalate, DINP	28553-12-0, 68515-48-0	<0.005	<0.005	<0.005	
Di-isodecyl phthalate, DIDP	26761-40-0, 68515-49-1	<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	<0.005	<0.005	-
Conclusion		Pass	Pass	Pass	

Note: 1. "<" denotes less than.

2. "%" denotes percentage by weight.

3. "#1" denotes the limit of DEHP, DBP, BBP and DIBP for toys and child care articles that placed on the market will be effective from July 7, 2020.

4. "#2" denotes the limit of DINP, DIDP and DNOP for toys and child care articles that can be placed in the mouth.

Laboratory:

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Shenzhen Branch

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Regd. Office:

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3.15 Total Cadmium

Regulation (EU) 2016/217, amending Annex XVII to Regulation (EC) No. 1907/2006 Entry 23.
Microwave digestion and followed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrophotometer (ICP-OES)
[Reporting Limit = 10.0mg/kg]

Analyte	Results [mg/kg]		
	Sample 004	Sample 005	Sample 008+009
Cadmium	<10.0	<10.0	<10.0
Limit	<1000		<100
Conclusion	Pass	Pass	Pass

Note: 1. "mg/kg" denotes milligram per kilogram.

2. "<" denotes less than.

Material / Product	Limit
Plastics	<100 mg/kg
Metal jewellery / imitation jewellery articles and hair accessories	<100 mg/kg
Brazing Fillers	<100 mg/kg
Coating	<1000 mg/kg
Paint with TARIC codes [3208],[3209] Zinc content > 10%	<1000 mg/kg
Paint with TARIC codes [3208],[3209] with Zinc Content ≤ 10%	<100 mg/kg

-- END OF THE TEST REPORT --

1. General Information and Definitions

- (1.1) In the event that an order for any services is placed, the Client shall accept the General Terms and Conditions. The General Terms and Conditions shall be applicable to all orders, resulting contracts and other arrangements, including all offers made or services provided by the Company or any of its affiliated companies. They are not applicable if and as far as they are in conflict with the regulations on services performed on behalf of governments, government bodies or any other public entity, or they are in conflict with mandatory provisions of local law. The Client's placement of orders as well as the conclusion of contracts with the Company shall be regarded as awareness and acceptance of these General Terms and Conditions.
- (1.2) The Company strongly recommends any Client or potential Client to read the full text of these General Terms and Conditions prior to placement of any order to or conclusion of any contract with the Company. Ancillary agreements, promises and other statements made on the part of the Company staff or the experts called upon by them shall be binding only if they are expressly confirmed by the Company in writing. This shall also apply to any modifications of this clause.

2. Provision of Services

- (2.1) With due care and skill, the Company will provide services according to Client's specific instructions as made available by the Client. In the absence of Client's specific instructions, the following is deemed as instructions given to the Company:
- (a) The terms of any standard specification sheet or standard order form provided by the Company; and/or
 - (b) Any relevant usage, practice or trade custom; and/or
 - (c) Such methods the Company considers technically, operationally and/or on financial grounds appropriate.
- (2.2) No other party is entitled to give any instructions particularly on the scope and type of the services or the reports delivered, or on the resulting certificates (the "Reports of Findings"), unless the Company receives prior written instructions to the contrary from the Client. The Client hereby irrevocably authorizes the Company to deliver Reports of Findings to a third party where so instructed by the Client or, at the Company's discretion, where it implicitly follows from circumstances, trade custom, usage or practice.
- (2.3) The Information stated in the Report of Findings is derived from the results of inspection or testing procedures carried out in accordance with the instructions and/or Company's assessment of such results on the basis of any technical standards, trade custom or practice, or other circumstances which should in Company's professional experience be taken into account.
- (2.4) Reports of Findings issued after the testing of samples refer the Company's opinion only on samples under testing and not to the lot from which the samples were drawn.
- (2.5) Client agrees that the Company's sole responsibility is to be present at the time of the third party's intervention and to forward the results, or confirm the occurrence of the intervention, in case Client requests the Company to witness any third party's intervention. Client agrees that the Company will use the test methods for analysis as requested in the request form, and if none is stated in the form, the Company will choose the appropriate test methods for analysis.
- (2.6) The Reports of Findings issued by the Company will reflect the facts as recorded by it at the time of its intervention only and within the limits of the instructions received or, in the absence of such instructions, within the limits of the alternative parameters applied as provided for in Clause 2.1. The Company is under no obligation to refer to, or report upon, any facts or circumstances, which are outside the specific instructions received or alternative parameters applied.
- (2.7) The performance of all or part of the services may be delegated to an agent or subcontractor by the Company. The Client authorizes the Company to disclose all information necessary for such performance to the agent or subcontractor.
- (2.8) Documents reflecting engagements contracted between the Client and third parties or third party documents, e.g. sales contract copies, letters of credit, bills of lading, etc. should be made available to the Company. These are considered to be for information only, and do not extend or restrict the scope of the services or the obligations accepted by the Company.
- (2.9) The Company agrees that, by providing the services to the Client, it neither takes the place of Client or any third party, nor otherwise assumes, abridges, abrogates or undertakes to discharge any duty of the Client to any third party or that of any third party to the Client. Also, it does not release the Client or any third party from any of their obligations.
- (2.10) Depending on the nature of each sample, all samples given to the Company shall be retained for a maximum of 3 months or for such other shorter time period as the nature of the sample permits, and then sent back to Client or otherwise disposed of at the Company's discretion. After that time the Company will not be responsible for the samples. Storage of samples for more than 3 months shall incur a storage fee payable by the Client. If samples are returned to the Client, the Client will be billed a handling and freight fees. Special disposal charges will be billed to the Client if incurred.

3. Client's Obligations

- The Client shall:
- (3.1) ensure that all required supporting documents, information and instructions as submitted are accurate, truthful and complete. These information are to be submitted in a timely manner not later than 2 working days from the date of which the services are requested by the Client
 - (3.2) ensure to give all necessary access for the Company's representatives to the premises where the services are to be performed and to take all necessary steps to eliminate or remedy any obstacles to, or interruptions in the performance of the services;
 - (3.3) make available any special equipment and personnel necessary for the performance of the services, if required;
 - (3.4) ensure that for the safety and security of working conditions, sites and installations, all necessary measures are taken during the performance of services. In this respect, the Client will not rely on the Company's advice whether required or not;
 - (3.5) inform the Company of any known hazards or dangers, actual or potential, associated with any order, samples, testing or any other service rendered by the Company well in advance. Those are, but are not limited to the presence or risk of radiation, environmental pollution or poisons-toxic or noxious or explosive elements or materials;
 - (3.6) fully exercise all its rights and discharge all its liabilities under any relevant sales or other contract with a third party.

4. Fees and Payment

- (4.1) All Fees not agreed on between the Company and Client at the time the order is placed or a contract is concluded shall be determined by the Company's Schedule of Fees (which are subject to change). All applicable taxes shall be paid by Client, as far as mandatory laws do not provide otherwise.
- (4.2) Unless a specific period is established in the invoice, the Client shall pay upon receiving the invoice, but not later than 30 days from the relevant invoice date or within such other period as may be established by the Company in the invoice (the "Due Date").
- (4.3) The Client shall not be entitled to retain or defer due payment of any sums to the Company on account of any dispute, counter claim or set-off against the Company. The Company reserves the right to retain or defer any due payments if any dispute arises with or it raises any counterclaim against the Client. The Company is entitled to set off due payments against payments of the Client.

- (4.4) For the collection of unpaid fees, the Company may decide to bring action in any court with competent jurisdiction. The corresponding collection costs, including attorney's fees and related costs, shall be borne by the Client, as far as the mandatory local law does not provide otherwise.
- (4.5) In case of any unforeseen problems or expenses arise while carrying out the services, the Company informs the Client. In such cases, the Company shall be entitled to charge additional fees to cover extra time and to invoice extra costs necessarily incurred to complete the services.
- (4.6) If the Company is unable to perform all or parts of the services for any cause whatsoever beyond the Company's control, including the failure by Client to comply with any of its obligations provided for in the foregoing Clause 3, the Company shall nevertheless be entitled to payments of:
 - (1) The amount of all non-refundable expenses incurred by the Company; and
 - (2) A proportion of the agreed fee equal to the proportion of the services actually carried out.

5. Suspension or Termination of Services

In any case mentioned below, the Company shall be entitled to either suspend or terminate the provision of the services immediately and without any liability:

- (5.1) Failure by the Client to comply with any of its obligations under these General Terms and Conditions and such failure is not remedied within 10 days after a notice of such failure has been delivered to the Client; or
- (5.2) Any suspension of payment, arrangement with creditors, bankruptcy, insolvency, receivership or cessation of business by Client.

6. Liability and Indemnification

- (6.1) Limitation of Liability.
- (1) Clients seeking a guarantee against loss or damage should obtain appropriate insurance. The Company is neither an insurer nor a guarantor and disclaims all liability in such capacity.
 - (2) Reports of Findings are issued on the basis of the information, documents and/or samples provided by, or on behalf of the Client and solely for the benefit of the Client who is obliged to act on the basis of such Reports of Findings. Neither the Company nor any of its staff, agents or subcontractors shall be liable to the Client nor to any third party for any actions taken or not taken on the basis of such Reports of Findings, or for any incorrect results arising from unclear, erroneous, incomplete, misleading or false information provided to the Company.
 - (3) For any delayed, total or partial non-performance of the services arising directly or indirectly from any event beyond the Company's control, including failure by Client to comply with any of its obligations hereunder, the Company shall not be liable.
 - (4) The liability of the Company in respect of any claim for loss, damage or expense of any nature and howsoever arising shall in no circumstances exceed a total aggregate sum equal to 10 times the amount of the fee paid in respect of the specific service which gives rise to such claim, and shall in any case not exceed the equivalent of 25,000 EUR in CNY.
 - (5) For any indirect or consequential loss (including loss of profits), the Company shall not have any liabilities.
 - (6) In case of any claim, the Client must give written notice to the Company within 30 days of discovery of the facts with all necessary documents to justify such claim. In any case, the Company shall be discharged from all liability for all claims for loss, damage or expense unless a lawsuit is brought within two years from:
 - (i) the performance date of the Company for its services which refers to the claim; or
 - (ii) the date when the service should have been completed in the event of any alleged non-performance.
- (6.2) Indemnification. Against all claims (actual or threatened) by any third party for loss, damage or expenses of whatsoever nature including all legal expenses and related costs and howsoever arising relating to the performance, purported performance or non-performance of any services, the Client shall guarantee, hold harmless and indemnify the Company and its officers, employees, agents or subcontractors.

7. Obligation of Confidentiality, Copyright, Data Privacy Protection

- (7.1) The Company shall be authorized to make file copies of written documents, which have been made available to it for review and which are important for processing the order.
- (7.2) Insofar as Reports of Findings are prepared in the course of processing the order and which are subject to the protection of copyright, then the Company shall grant the Client a simple, non-transferable right to use, insofar as this is necessary and in accordance with the contractually presupposed purpose. Other rights shall not be transferred; in particular, the customer shall not be entitled to modify and/or edit audit reports or to make use of such outside of his business premises.
- (7.3) The Company and its staff which may be called in shall not disclose or use trade and business matters about which they have gained knowledge during the performance of their work without proper authorization, or unless instructed by a court or authorized body (e.g. regulatory authority, accreditation body or certification scheme owner) or otherwise legally required.

8. Miscellaneous

- (8.1) The validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired, even if any one or more provisions of these General Conditions are found to be illegal or unenforceable in any respect.
- (8.2) Client shall not directly or indirectly entice, encourage or make any offer to Company's employees to leave their employment with the Company, during the course of providing the services and for a period of one year thereafter.
- (8.3) Use of the Company's corporate name or registered marks for advertising purposes is not permitted without the Company's prior written authorization.

9. Governing Law, Jurisdiction and Dispute Settlement

- (9.1) Unless specifically agreed otherwise, all disputes arising out of or in connection with contractual relationship(s) hereunder shall be governed by the applicable laws and regulations of the People's Republic of China.
- (9.2) Place of performance for any obligation arising out of this contract shall be Shanghai, the Place of the TÜV SÜD Certification and Testing (China) Co., Ltd., Shanghai branch, unless otherwise expressly agreed by the parties.

10. Languages

In the event of any discrepancy between the English and the Chinese version of these General Terms and Conditions, the English version shall prevail.