

Test Report

Number: SHAH01609588

Applicant: DEYI CHILDREN PRODUCTS CO., LTD
BOTOU INDUSTRIAL ESTATE, CHASHAN TOWN,
DONGGUAN CITY, GUANGDONG, CHINA, 523396
Attn: ZHU DAORONG

Date: 13 Nov, 2023

Sample Description:

One (1) group of submitted sample said to be :

Item Name : Swing Set
Item No. : 344-065V00GN
Quantity : 1

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Bobo Yao
Assistant General Manager



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Conclusion:

<u>Tested component</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted samples	Azocolourants content requirement in Annex XVII Item 43 of the REACH Regulation (EC) No. 1907/2006 & Amendment (EC) No. 552/2009 and (EU) 2020/2096	Pass
Tested components of submitted samples	Canada Consumer Product Safety Act Toys Regulation SOR/2011-17 Section 27(3)(a)&(b) for accessible plastic material in toys for children under 3 years of age	Pass
Tested components of submitted samples	Canada Consumer Products Containing Lead Regulations SOR/2018-83	Pass
Tested components of submitted samples	Canada Consumer Product Safety Act surface coating materials regulation SOR/2016-193 for total Mercury content on surface coating materials	Pass
Tested components of submitted samples	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII Items 23 of the Reach Regulation (EC) No. 1907/2006	Pass
Tested components of submitted samples	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 23 and amendment SOR/2022-122 on toxic elements test	Pass
Tested components of submitted samples	Polycyclic Aromatic Hydrocarbons (PAHs) content in Annex XVII Item 50 of the REACH Regulation (EC) No. 1907/2006 & amendment (EU) No. 1272/2013	Pass
Tested components of submitted samples	AfPS GS 2019:01 PAK (PAH) on Polycyclic Aromatic Hydrocarbons (PAHs) Content for GS Certification	Pass
Tested components of submitted samples	Phthalates content requirement in Canada Consumer Product Safety Act Phthalates Regulation SOR/2016-188	Pass
Tested components of submitted samples	Phthalates content requirement in Annex XVII Item 51&52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC)	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



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Tests Conducted

1. Detection of Amines Derived from Azocolourants and Azodyes

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method: EN ISO 14362-1: 2017 for Textile Material
EN ISO 17234-1: 2015 for Leather Material
EN ISO 14362-3: 2017 & EN ISO 17234-2: 2011 for p-Aminoazobenzene

	Forbidden	Cas No.	Result (ppm)			
			Method T		Method D	
			(12)	(13)	(12)	(13)
1.	4-Aminodiphenyl	92-67-1	N	N	N	N
2.	Benzidine	92-87-5	N	N	N	N
3.	4-Chloro-o-Toluidine	95-69-2	N	N	N	N
4.	2-Naphthylamine	91-59-8	N	N	N	N
5.	o-Aminoazotoluene	97-56-3	N	N	N	N
6.	2-Amino-4-Nitrotoluene	99-55-8	N	N	N	N
7.	p-Chloroaniline	106-47-8	N	N	N	N
8.	2,4-Diaminoanisole	615-05-4	N	N	N	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N	N
10.	3,3'-Dichlorobenzidine	91-94-1	N	N	N	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N	N	N	N
12.	3,3'-Dimethylbenzidine	119-93-7	N	N	N	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N	N
14.	p-Cresidine	120-71-8	N	N	N	N
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	N	N	N	N
16.	4,4'-Oxydianiline	101-80-4	N	N	N	N
17.	4,4'-Thiodianiline	139-65-1	N	N	N	N
18.	o-Toluidine	95-53-4	N	N	N	N
19.	2,4-Toluylenediamine	95-80-7	N	N	N	N
20.	2,4,5-Trimethylaniline	137-17-7	N	N	N	N
21.	o-Anisidine	90-04-0	N	N	N	N
22.	p-Aminoazobenzene	60-09-3	N	N	N	N

Remark: N = Not Detected
Detection Limit = 5 ppm
Requirement = 30 ppm (Max.)
ppm = Parts per million = mg/kg

Method T: Direct buffer extraction as per EN ISO 14362-1: 2017 Section 10.2
Method D: Colourant extraction with Xylene as per EN ISO 14362-1: 2017 Section 10.1

Tested Components: See component list in the last section of this report.

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Tests Conducted

2.Toxic Elements Analysis

As per Canada Consumer Product Safety Act Toys Regulation SOR/2011-17 Section 27(3)(a)&(b), by acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

		<u>Result (mg/kg)</u>			<u>Limit (mg/kg)</u>
	(3)	(4)	(5)		
Tot. Lead (Pb)	<20	<20	<20		90
Sol. Barium (Ba)	<5	<5	<5		1000
Sol. Mercury (Hg)	<5	<5	<5		60
Sol. Cadmium (Cd)	<5	<5	<5		75
Sol. Antimony (Sb)	<5	<5	<5		60
Sol. Chromium (Cr)	<5	<5	<5		60
Sol. Selenium (Se)	<5	<5	<5		500
Sol. Arsenic (As)	<2.5	<2.5	<2.5		25

		<u>Result (mg/kg)</u>			<u>Limit (mg/kg)</u>
	(8)	(9)	(10)	(11)	
Tot. Lead (Pb)	<20	<20	<20	<20	90
Sol. Barium (Ba)	<5	<5	<5	<5	1000
Sol. Mercury (Hg)	<5	<5	<5	<5	60
Sol. Cadmium (Cd)	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	60
Sol. Chromium (Cr)	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	500
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	25

Remark: mg/kg = Milligram per kilogram

Tot. = Total

Sol. = Soluble

Tested Components: See component list in the last section of this report.

Date Sample Received: Sep 07, 2023

Testing Period: Sep 07, 2023 to Nov 10, 2023

3.Total Lead (Pb) Content

As per methods C02.2, C02.3 and C02.4, acid digestion was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Components</u>	<u>Result (mg/kg)</u>	<u>Limit (mg/kg)</u>
(1)	ND	90
(3)	ND	90
(4)	ND	90
(5)	ND	90
(8)	ND	90
(9)	ND	90
(10)	ND	90
(11)	ND	90
(12)	ND	90
(13)	ND	90
(14)	ND	90
(15)	ND	90



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Tests Conducted		
(2)	ND	90
(7)	ND	90

The above limit was quoted according to Canada Consumer Products Containing Lead Regulations SOR/2018-83.

Remark: Reporting Limit = 20 mg/kg
ND=Not Detected

Tested Components: See component list in the last section of this report.

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4.Total Mercury (Hg) Content in Surface Coating

With reference to Canada Consumer Product Safety Act surface coating materials regulation SOR/2016-193, acid digestion method was used and total Mercury content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Test Component</u>	<u>Result in mg/kg</u>	<u>Limit(mg/kg)</u>
(1)	ND	10

Remark: Detection Limit = 0.047 mg/kg
ND = Not detected

Tested components: see component list in the last section of this report.

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5.Cadmium (Cd) Content

With reference to methods IEC 62321:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested components</u>	<u>Result in %</u>
(5)	ND
(8)	ND
(9)	ND
(10)	ND
(11)	ND

Requirement:	
<u>Category</u>	<u>Limit (%)</u>
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

Remark: ND = Not Detected (<0.0005%)

Tested Components: See component list in the last section of this report.

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Tests Conducted

6.Toxic Elements Analysis (CCPSA SOR/2011-17 and Amendment SOR/2022-122)

With reference to Method C-02.2.1, C-07 published in Health Canada Product safety reference manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Plasma-mass Spectrometry and Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result(mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	(1)		
Tot. Lead (Pb)	ND	20	90
Tot. Mercury (Hg)	ND	0.047	10
Sol. Cadmium (Cd)	ND	5	1000
Sol. Antimony (Sb)	ND	5	1000
Sol. Selenium (Se)	ND	5	1000
Sol. Arsenic (As)	ND	2.5	1000
Sol. Barium (Ba)	793#	5	1000

The above limit was quoted according to Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 23 and Amendment SOR/2022-122 for prohibition on toxic elements in stickers, films and surface coating materials.

Tot. = Total

Sol. = Soluble

ND = Not detected

= The results were adjusted by subtracting analytical correction factor.

Tested Component(s): See component list in the last section of this report.

Date Sample Received: Sep 07, 2023

Testing Period: Sep 07, 2023 to Oct 30, 2023

7.Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Toy for children:

Test Item	Result (mg/kg)	Requirement (mg/kg)
	(6)	(Max.)
Benzo(a)pyrene	ND	0.5
Benzo(e)pyrene	ND	0.5
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.5
Benzo(b)fluoranthene	ND	0.5
Benzo(j)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.5
Dibenzo(a,h)anthracene	ND	0.5

Remark : The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) No.1907/2006 & amendment (EU) No. 1272/2013 for Polycyclic Aromatic Hydrocarbons (PAHs).



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Tests Conducted
ND = Not Detected
Detection limit = 0.2 mg/kg

Tested components: See component list in the last section of this report.

Date Sample Received: Sep 07, 2023
Testing Period: Sep 07, 2023 to Oct 25, 2023

8.Polycyclic Aromatic Hydrocarbons (PAHs) Content for GS Certification

As Per AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatography – Mass Spectrometer (GC/MS).

(I) Test Results

Testing Item	CAS No.	Result (in mg/kg)
		(6)
1.Phenanthrene	85-01-8	ND
2.Anthracene	120-12-7	ND
3.Fluoranthene	206-44-0	ND
4.Pyrene	129-00-0	ND
Sum (4 PAHs):	--	ND
5.Naphthalene	91-20-3	ND
6.Benzo(a)Anthracene	56-55-3	ND
7.Chrysene	218-01-9	ND
8.Indeno(1,2,3-cd)Pyrene	193-39-5	ND
9.Benzo(b)Fluoranthene	205-99-2	ND
10.Benzo(k)Fluoranthene	207-08-9	ND
11.Benzo(a)Pyrene	50-32-8	ND
12.Dibenzo(a,h)Anthracene	53-70-3	ND
13.Benzo(g,h,i)Perylene	191-24-2	ND
14.Benzo(e)Pyrene	192-97-2	ND
15. Benzo(j)Fluoranthene	205-82-3	ND
Sum (15 PAHs):	--	ND
Classification of Samples: Category		3a

ND= Not detected (less than reporting limit)
Reporting limit = 0.2 mg/kg

(II) Limits for PAHs in Products

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Tests Conducted

Parameter	Category 1	Category 2		Category 3	
/	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use - in toys according to Directive 2009/48/EC or -for the use by children up to 3 years of age	Materials that are not covered by Category 1, with long-term skin contact (longer than 30s) or repeated short-term skin contact if used as intended or foreseeable 2a. used by children 2b. other consumer products		Materials that are not covered by Category 1 or 2, with short-term skin contact (up to 30 s) when used as intended or foreseeable 3a. used by children 3b. other consumer products	
/	/	2a	2b	3a	3b
Phenanthrene	--	--	--	--	--
Anthracene	--	--	--	--	--
Fluoranthene	--	--	--	--	--
Pyrene	--	--	--	--	--
Sum (4 PAHs):	<1	<5	<10	<20	<50
Naphthalene	<1	<2	<2	<10	<10
Benzo(a)Anthracene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)Pyrene	<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
Benzo(e)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Sum (15 PAHs):	<1	<5	<10	<20	<50

Tested Component(s): See component list in the last section of this report

Date Sample Received: Sep 07, 2023

Testing Period: Sep 07, 2023 to Oct 25, 2023

9. Phthalate Content Test

With reference to method CPSC-CH-C1001-09.3 and followed by solvent extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis

Tested Compound	Result (mg/kg)	Limit(mg/kg) (Max.)
	(6)	
Di-butyl phthalate (DBP)	ND	1000
Di(2-ethyl hexyl) phthalate(DEHP)	ND	1000
Benzyl butyl phthalate (BBP)	ND	1000
Di-iso-nonyl phthalate (DINP)	ND	1000
Di-n-octyl phthalate (DNOP)	ND	1000
Di-iso-decyl phthalate (DIDP)	ND	1000



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Remark: The above limit was quoted according to Canada Consumer Product Safety Act Phthalates Regulation SOR/2016-188 for phthalate content on toys and child care articles.

Detection Limit = 100mg/kg

ND = Not Detected

Tested Components: See component list in the last section of this report.

Date Sample Received: Sep 07, 2023

Testing Period: Sep 07, 2023 to Oct 23, 2023

10. Phthalate Content

With reference to ISO 8124-6: 2018, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Item 51

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
		(6)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	0.005	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	-
Sum of DBP, DEHP, BBP and DIBP	-	ND	-	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles.

II. Annex XVII Item 52

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
		(6)		
Di-n-octyl phthalate (DnOP)	117-84-0	ND	0.005	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.005	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.005	-
Sum of DINP, DNOP and DIDP	-	ND	-	0.1

The above limit was quoted according to Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for phthalate content in toys and childcare articles.

Remark: ND = Not Detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

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Components List:

Tested components:

- (1) Grey coating on metal (tube)



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- (2) Silvery metal bolt
- (3) Black plastic (footpad on tube)
- (4) Black plastic (stopper on green tube)
- (5) Green plastic (nut/bolt)
- (6) White plastic on nut
- (7) Silvery metal nut
- (8) Green plastic (seat)
- (9) Black plastic (buckle/square on belt)
- (10) Green plastic on rope
- (11) Green soft plastic (rope)
- (12) Dark blue fabric (belt)
- (13) Dark blue fabric on rope
- (14) Silvery metal excluding coating
- (15) Silvery metal gasket



Submitted sample

End of report

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