



GUANGDONG MELOBO BABY CARRIAGE CO.,LTD

Technical Report: (8821)128-0123(A)

Jan 26, 2022

Date Received: May 8, 2021

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GUANGDONG MELOBO BABY CARRIAGE CO.,LTD
NO.8, HUIJIN INDUSTRY BOROUGH, BAINI TOWN,
SANSHUI, FOSHAN, GUANGDONG,CHINA

Sample Description: DOLL STROLLER, TOYS SET, DOLL BUGGY, DOLL BED, DOLL SWING & DOLL HIGHCHAIR, DOLL HIGH CHAIR, DOLL TABLE CHAIR, DOLL CAR SEAT, TOY IRONING BOARD, TOY SHOPPING TROLLEY, UMBRELLA FOR DOLL, DOLL WALKER, DOLL SLEEPING BAG, CARRY BAG

Vendor:	N/A	Sample Size:	11
Manufacturer:	N/A	Style No(s):	SEE ATTACHMENT
Labeled Age Grade:	NOT RECORD	SKN/SKU No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	PO No.:	NOT PROVIDE
Client Specified Age Grade:	3+	Ref #:	NOT PROVIDE
Tested Age Grade:	OVER 3 YEARS OF AGE	Country of Origin:	CHINA
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Test Starting Date:	MAY 8, 2021	Test Finished Date:	JUN 19, 2021

EXECUTIVE SUMMARY:

The tested component sample(s) MEETS the following requirement(s):

- EN71-3:2019 Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment (EU) 2019/1922.
- EN 71-3:2019+A1:2021 Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment (EU) 2019/1922.
- Total Cadmium Content – European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII, Item no. 23.

To be continued



BUREAU VERITAS SHENZHEN CO.,LTD
DONGGUAN BRANCH

Harvey Xue
Manager, Analytical Lab

RT/ Min Chen

REMARK

If there are questions or concerns on this report, please contact the following persons:

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Business Contact: (86) 0769 85893595

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EXECUTIVE SUMMARY:

The tested component sample(s) MEETS the following requirement(s):

- The BBP, DBP, DEHP and DIBP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51 (amended up to EU No.2018/2005).
- The DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52.
- The listed aromatic amines (azocolourants) content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 43, Points 1 and 2.
- The polycyclic aromatic hydrocarbons (PAHs) content requirement of European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 50, Paragraph 5 and 6.
- The Polycyclic Aromatic Hydrocarbons (PAHs) Content requirement of German Product Safety Commission GS Specification AfPS GS 2019:01 PAK, "Testing and Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the award of the GS mark."
- Short Chain Chlorinated Paraffins (SCCP) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs), Annex I, Part A.
- The total lead content in surface coating requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.1(1).
- The total lead content in substrate requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.2(2)(a).
- The soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).
- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).

Note: The sample(s) submitted do not fall within the scope of Total Lead Content – European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII, Item no. 63 thus the corresponding testing has not been conducted.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.



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ATTACHMENT:

Style No(s):

090,090D,090X,090Z,090K,091,092,093,094,095,096,097,098,228,228EL,9001,9002,9003,9004,9005,9006,9009,
9300,9301,9302,9302D,9302W,9302S,S9302,S9302W,S302WS,S9302S,S9302X,9303,9304,9304A,9304BW,
9304BWT,9304T,9304B,9304C,9304D,9304E,9304F,9304G,9304H,9304M,9304V,9304W,9305,9305D,9306,9307,
9307M,S9307,9308,9308W,9308S,9308WS,9309,9315,9316,9317,9317A,9317W,9318,9318C,9318L,9318LL,9318S,
9318T,9318K,9318W,9318WS,9319,9319W,9320,9320S,9321,9322,9323,9323D,9324,9324D,9325,9325A,9325B,
9325C,9325D,9325DS,9325E,9325H,9325S,9326,9326A,9326B,9326M,9326C,9326D,9327,9327A,9327B,9327C,
9327D,9327E,9328,9328A,9328B,9328C,9328E,9328G,9330,9331,9332,9333,9333A,9333B,9333C,9333D,9333E,
9333F,9333G,9333H,9333I,9333K,9333L,9333LG,9333V,9334,9334S,9334TS,9335,9336,9336H,9337,9337E,
9337ET,9338,9339,9340,9340K,9340Z,9341,9342,9343,9343B,9343C,9345,9346,9346B,9346D,9346D-E,9346E,
9346G,9346I,9346W,9347,9347B,9347D,9348,9349,9349A,9350,9350A,9350B,9350E,9350L,9351,9351A,9351B,
9351K,9352,9352A,9352E,9352G,9352H,9353,9353A,9354,9354A,9354B,9354H,9355,9356,9358,9358A,9360,9361,
9361A,9361B,9361C,9362,9362A,9362H,9362K,9362M,9363,9363A,9364,9364A,9364B,9365,9365B,9365BE,
9365C,9365D,9365M,9365MZ,9365S,9365Z,9366,9366A,9366B,9366T,9367,9367A,9367B,9368,9368A,9368S,
9369,9370,9370A,9370B,9370C,9371,9372,9373,9374,9375,9376,9376C,9377,9377A,9377BT,9377C,9378,9378A,
9378B,9379,9379A,9379D,9379DE,9379E,9379EA,9380,9380A,9381,9381A,9381K,9381S,9381Z,9383,9383A,
9384,9384C,9384S,9384SE,9384ST,9385,9386,9686L,9387,9388,9388S,9389,9390,9390A,9390S,9390SE,
9390SH,9390Z,9391,9391C,9393,9394,9394S,9395,9395A,9397,9397A,9397AT,9397B,9397C,9397CS,9397D,
9398,9501,9502,9503,9610,9610A,9612,9612A,9613,9614,9615,9615A,9616,9616A,9617,9618,9619,9619A,9619E,
9620,9620J,9621,9622,9623,9624,9626,9626A,9628,9629,9629A,9630,9631,9631A,9632,9632B,9633,9634,9636,
9636A,9637,9650,9651,9651A,9651AS,9651B,9651BE,9651BI,9651BJ,9651BS,9651C,9651D,9651E,9651F,9651T,
9652,9653,9653B,9653C,9654,9656,9657,9658,9659,9661,9661B,9662,9662A,9662B,9662C,9662D,9662F,9662H,
9662L,9662M,9663,9664,9665,9665A,9665B,9665C,9665D,9665F,9665I,9666,9666A,9667,9667L,9668,9668A,
9668C,9668H,9668T,9669,9669K,9670,9671,9672,9673,9673A,9673B,9673C,9673D,9673W,9674,9675,9675E,
9675S,9675Y,9677,9678,9678A,9680,9680W,9681,9681A,9681E,9682,9683,9686,9688,9690,9694,9695,9695A,
9695B,9701,9702,9710,9710Y,9720



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Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Black coating	Surface of metal	-
I002	Silver coating	Surface of metal	-
I003	Black soft plastic	Handle	-
I004	Black foam	Handle	-
I005	Black EVA	Handle	-
I006	Bright black foam	Tire	-
I007	Black plastic	Connector ,wheel ,buckle ,frame, pole, button	-
I008	Matt black plastic	Zipper teeth	-
I009	Red plastic	Button	-
I010	White soft plastic	Elastic band	-
I011	Fuchsia foam	Handle	-
I012	Fuchsia EVA	Handle	-
I013	Fuchsia soft plastic	Handle	-
I014	Fuchsia plastic	Connector button	-
I015	White plastic	Connector of belt	-
I016	Beige plastic	Pin	-
I017	Light fuchsia foam	Tire	-
I018	Gray plastic	Wheel	-
I019	Transparent plastic	Zipper teeth	-
I020	Snow white plastic	Button ,handle	-
I021	White foam	Filler	-
I022	Gray thread/coffee fabric	Cover ,mat	-
I023	Dark cyan thread/dark cyan fabric	Cover	-
I024	Black thread/black fabric	Rim ,belt	-
I025	Black net fabric	Pocket	-
I026	Black loop and hook fastener	Velcro	-
I027	Light black fabric	Zipper band	-
I028	Off black fabric	Elastic band	-
I029	Fuchsia printed white fabric	Seat ,cover	-
I030	Light fuchsia thread/light fuchsia fabric	Cover	-
I031	Fuchsia thread/fuchsia fabric	Rim ,belt	-
I032	Dark fuchsia fabric	Elastic band	-
I033	White net fabric	Pocket Bed net	-
I034	White loop and hook fastener	Velcro	-



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Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I036	Pink fabric	Elastic band	-
I037	White floss	Filler	-
I038	Brown fiberboard	Board	-
I039	Silvery metal	Pole	-
I040	Silvery metal	Rivet	-
I041	Silvery metal	Shaft	-
I042	Silvery metal	Spring	-
I043	Silvery metal	Zipper	-
I044	Silvery metal	Washer	-
I045	Silvery metal	Iron wire of wheel	-
I046	Silvery metal	Screw	-
I047	Silvery metal	Solder	-
I048	Silvery metal	Button	-
I049	Silvery metal	U pin	-
I050	Gray fabric	Cover ,mat	-
I051	Dark cyan fabric	Cover	-
I052	Black net fabric	Pocket	-
I053	Black loop and hook fastener	Velcro	-
I054	Light black fabric	Zipper band	-
I055	Light fuchsia fabric	Cover	-
I056	Fuchsia fabric	Rim ,belt	-
I057	Dark fuchsia fabric	Elastic band	-
I058	Fuchsia printed white fabric	Seat ,cover	-

Remark:

The items 003-005, 009-011, 016 were resubmitted by client dated on Jun 15, 2021.



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RESULTS:

EN71-3:2019 Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment (EU) 2019/1922.

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I001	I002	I003	I004	I005
Aluminium (Al)	28130	13	590	LT 2	LT 2	4
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	3	LT 2	LT 2	LT 2
Barium (Ba)	18750	400	340	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	0.764	0.356	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053	LT 0.0020#	LT 0.0020#			
Copper (Cu)	7700	6	4	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	7	LT 2	LT 2	LT 2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	20	11	LT 2	LT 2	LT 2
Zinc (Zn)	46000	160	100	4	LT 2	LT 2
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006	I007	I008	I009	I010
Aluminium (Al)	28130	3	LT 2	2	9	7
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	LT 0.053	LT 0.053	0.115
Chromium VI (Cr VI)	0.053					LT 0.0020#
Copper (Cu)	7700	2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	3	LT 2	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	11	2	LT 2	2	1599
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I011	I012	I013	I014	I015
Aluminium (Al)	28130	2	7	LT 2	LT 2	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053					
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	2	LT 2	2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	278	130	2	LT 2	5
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I016	I017	I018	I019	I020
Aluminium (Al)	28130	6	6	LT 2	LT 2	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	3	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	0.333	LT 0.053	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053	LT 0.0020#				
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	3	LT 2	3	LT 2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	49	9	LT 2	LT 2	3
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I021	I022	I023	I024	I025
Aluminium (Al)	28130	3	17	52	3	7
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	2	LT 2	LT 2
Barium (Ba)	18750	6	6	10	LT 2	2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	0.091	0.299	LT 0.053	0.101
Chromium VI (Cr VI)	0.053		LT 0.0020#	LT 0.0020#		LT 0.0020#
Copper (Cu)	7700	LT 2	4	4	LT 2	3
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	4	5	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	2	3	LT 2	LT 2
Zinc (Zn)	46000	4	22	21	6	9
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I026	I027	I028	I029	I030
Aluminium (Al)	28130	5	3	280	15	6
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	2	2	6	6	4
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	0.538	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053			LT 0.0020#		
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	3	LT 2	4	3	3
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	3	18	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	7	12	1000	6	6
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I031	I032	I033	I034	I036
Aluminium (Al)	28130	4	6	5	3	5
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	6	3	4	3	3
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	0.097	LT 0.053	LT 0.053	0.106
Chromium VI (Cr VI)	0.053		LT 0.0020#			LT 0.0020#
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	LT 2	3	2	3	3
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	4	3	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	4	1500	27	4	320
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I037	I038	-	-	-
Aluminium (Al)	28130	LT 2	31	-	-	-
Arsenic (As)	47	LT 2	LT 2	-	-	-
Boron (B)	15000	LT 2	16	-	-	-
Barium (Ba)	18750	LT 2	10	-	-	-
Cadmium (Cd)	17	LT 2	LT 2	-	-	-
Cobalt (Co)	130	LT 2	LT 2	-	-	-
Chromium III (Cr III)	460	LT 0.053	LT 0.053	-	-	-
Chromium VI (Cr VI)	0.053					
Copper (Cu)	7700	LT 2	LT 2	-	-	-
Mercury (Hg)	94	LT 2	LT 2	-	-	-
Manganese (Mn)	15000	2	66	-	-	-
Nickel (Ni)	930	LT 2	LT 2	-	-	-
Lead (Pb)	23	LT 2	LT 2	-	-	-
Antimony (Sb)	560	8	LT 2	-	-	-
Selenium (Se)	460	LT 2	LT 2	-	-	-
Tin (Sn)	180000	LT 2	LT 2	-	-	-
Organic tin	12	LT 2	LT 2	-	-	-
Strontium (Sr)	56000	LT 2	7	-	-	-
Zinc (Zn)	46000	3	14	-	-	-
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	-	-	-

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

= Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN71 part 3:2019, Annex F.
- Organic tin: EN71 part 3:2019, Annex G.



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RESULTS:

EN 71-3:2019+A1:2021 Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with its Latest Amendment (EU) 2019/1922.

Test Method: European Standard EN 71-3:2019+A1:2021.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I001	I002	I003	I004	I005
Aluminium (Al)	28130	13	590	LT 2	LT 2	4
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	3	LT 2	LT 2	LT 2
Barium (Ba)	18750	400	340	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	0.764	0.356	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053	LT 0.0020#	LT 0.0020#			
Copper (Cu)	7700	6	4	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	7	LT 2	LT 2	LT 2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	20	11	LT 2	LT 2	LT 2
Zinc (Zn)	46000	160	100	4	LT 2	LT 2
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006	I007	I008	I009	I010
Aluminium (Al)	28130	3	LT 2	2	9	7
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	LT 0.053	LT 0.053	0.115
Chromium VI (Cr VI)	0.053					LT 0.0020#
Copper (Cu)	7700	2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	3	LT 2	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	11	2	LT 2	2	1599
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I011	I012	I013	I014	I015
Aluminium (Al)	28130	2	7	LT 2	LT 2	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053					
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	2	LT 2	2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	278	130	2	LT 2	5
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I016	I017	I018	I019	I020
Aluminium (Al)	28130	6	6	LT 2	LT 2	LT 2
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	3	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	0.333	LT 0.053	LT 0.053	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053	LT 0.0020#				
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	3	LT 2	3	LT 2	LT 2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	49	9	LT 2	LT 2	3
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I021	I022	I023	I024	I025
Aluminium (Al)	28130	3	17	52	3	7
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	2	LT 2	LT 2
Barium (Ba)	18750	6	6	10	LT 2	2
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	0.091	0.299	LT 0.053	0.101
Chromium VI (Cr VI)	0.053		LT 0.0020#	LT 0.0020#		LT 0.0020#
Copper (Cu)	7700	LT 2	4	4	LT 2	3
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	2	4	5	LT 2	2
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	2	3	LT 2	LT 2
Zinc (Zn)	46000	4	22	21	6	9
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I026	I027	I028	I029	I030
Aluminium (Al)	28130	5	3	280	15	6
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	2	2	6	6	4
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	LT 0.053	0.538	LT 0.053	LT 0.053
Chromium VI (Cr VI)	0.053			LT 0.0020#		
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	3	LT 2	4	3	3
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	LT 2	LT 2	3	18	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	7	12	1000	6	6
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I031	I032	I033	I034	I036
Aluminium (Al)	28130	4	6	5	3	5
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2
Barium (Ba)	18750	6	3	4	3	3
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2
Chromium III (Cr III)	460	LT 0.053	0.097	LT 0.053	LT 0.053	0.106
Chromium VI (Cr VI)	0.053		LT 0.0020#			LT 0.0020#
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2
Manganese (Mn)	15000	LT 2	3	2	3	3
Nickel (Ni)	930	LT 2	LT 2	LT 2	LT 2	LT 2
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2
Antimony (Sb)	560	4	3	LT 2	LT 2	LT 2
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2
Tin (Sn)	180000	LT 2	LT 2	2	LT 2	LT 2
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2
Zinc (Zn)	46000	4	1500	27	4	320
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I037	I038	-	-	-
Aluminium (Al)	28130	LT 2	31	-	-	-
Arsenic (As)	47	LT 2	LT 2	-	-	-
Boron (B)	15000	LT 2	16	-	-	-
Barium (Ba)	18750	LT 2	10	-	-	-
Cadmium (Cd)	17	LT 2	LT 2	-	-	-
Cobalt (Co)	130	LT 2	LT 2	-	-	-
Chromium III (Cr III)	460	LT 0.053	LT 0.053	-	-	-
Chromium VI (Cr VI)	0.053					
Copper (Cu)	7700	LT 2	LT 2	-	-	-
Mercury (Hg)	94	LT 2	LT 2	-	-	-
Manganese (Mn)	15000	2	66	-	-	-
Nickel (Ni)	930	LT 2	LT 2	-	-	-
Lead (Pb)	23	LT 2	LT 2	-	-	-
Antimony (Sb)	560	8	LT 2	-	-	-
Selenium (Se)	460	LT 2	LT 2	-	-	-
Tin (Sn)	180000	LT 2	LT 2	-	-	-
Organic tin	12	LT 2	LT 2	-	-	-
Strontium (Sr)	56000	LT 2	7	-	-	-
Zinc (Zn)	46000	3	14	-	-	-
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	-	-	-

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

= Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN 71-3:2019+A1:2021, Annex F by Ion-chromatography with ICP-MS detector analysis.
- Organic tin: EN 71-3:2019+A1:2021, Annex G by Gas Chromatography-Mass Spectroscopy analysis.



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RESULTS:

Total Cadmium Content – European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII, Item no. 23

Test Method : BS EN 1122: 2001, Method B or Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry.

Maximum Allowable Limit :	Type I	Paints on Painted Article: 1000 mg/kg
	Type II	Plastics: 100 mg/kg
	Type III	Metals in Jewellery: 100 mg/kg
	Type IV	Wet Paints: 100 mg/kg

Test Item(s)	Type	Result	Unit	Conclusion
		Total Cadmium (Cd)		
I001+I002	I	ND	mg/kg	PASS
I003+I004+I005	II	ND	mg/kg	PASS
I006+I007+I008	II	ND	mg/kg	PASS
I009+I010+I011	II	ND	mg/kg	PASS
I012+I013+I014	II	ND	mg/kg	PASS
I015+I017	II	ND	mg/kg	PASS
I016	II	ND	mg/kg	PASS
I018+I019+I020	II	ND	mg/kg	PASS
I021	II	ND	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit: 10 mg/kg



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RESULTS:

BBP/DBP/DEHP/DIBP Contents in Toys and Childcare Articles – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51

Test Method : With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

Test Parameter:	BBP	DBP	DEHP	DIBP	SUM	-
Limit (%):	0.1 (Sum of Four phthalates)					-
Test Item(s)	Result (%)					Conclusion
I001+I002	ND	ND	ND	ND	ND	PASS
I003+I004+I005	ND	ND	ND	ND	ND	PASS
I006+I007+I008	ND	ND	ND	ND	ND	PASS
I009+I010+I011	ND	ND	ND	ND	ND	PASS
I012+I013+I014	ND	ND	ND	ND	ND	PASS
I015+I017	ND	ND	ND	ND	ND	PASS
I016	ND	ND	ND	ND	ND	PASS
I018+I019+I020	ND	ND	ND	ND	ND	PASS
I021	ND	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate

DEHP = Di(2-ethylhexyl) phthalate

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

DBP = Dibutyl phthalate

DIBP= Diisobutyl phthalate

% = percent

10000 mg/kg = 1 %



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RESULTS:

DNOP/DINP/DIDP Contents in Toys and Childcare Articles which can be placed in the Mouth by the Children – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52

Test Method : With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

Test Parameter:	DIDP	DINP	DNOP	SUM	-
Limit (%):	0.1 (Sum of three phthalates)				-
Test Item(s)	Result (%)				Conclusion
I001+I002	ND	ND	ND	ND	PASS
I003+I004+I005	ND	ND	ND	ND	PASS
I006+I007+I008	ND	ND	ND	ND	PASS
I009+I010+I011	ND	ND	ND	ND	PASS
I012+I013+I014	ND	ND	ND	ND	PASS
I015+I017	ND	ND	ND	ND	PASS
I016	ND	ND	ND	ND	PASS
I018+I019+I020	ND	ND	ND	ND	PASS

Note / key:

DNOP = Di-n-octyl phthalate

DINP = Di-iso-nonyl phthalate

DIDP = Di-iso-decyl phthalate

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005



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RESULTS:

AROMATIC AMINES (AZOCOLOURANTS) CONTENT (European Regulation (EC) No. 1907/2006 REACH, Annex XVII, Item no. 43, Points 1 and 2)

Test Method: Quantification by Gas Chromatography/Mass Spectrometry (GC/MS)
Additional chromatographic technique employed to confirm positive result by HPLC/TLC

Test Parameter:		Aromatic Amines (Azocolourants)		
Requirement:		30 mg/kg		
Test Item(s)	Test Method	Detected Amine Number	Concentration (mg/kg (ppm))	Conclusion
I050+I051+I052	II	-	ND	PASS
I053+I054+I055	II	-	ND	PASS
I056+I057	II	-	ND	PASS
I058	II	-	ND	PASS

ND = Not Detected (Detection Limit = 10 mg/kg (ppm))

ppm = parts per million

mg/kg = milligrams per kilogram

NR = Not Requested

* = The specimen is a minor component. As only a reduced mass (< 0.5 g) could be used for the test the result may have a greater uncertainty due to lower material homogeneity

Amine No. = Refer to List of Banned Amines for the description of the detected Amine.

Test Method I = European Standard EN 14362-1: 2017, Clauses 9, 10.2 and afterwards.

Test Method II = European Standard EN 14362-1: 2017, Clauses 9, 10.1, 10.3 and afterwards.

Test Method III = International Standard ISO 17234-1: 2015.

Remark:

The list of aromatic amines in azo colorants is summarized in table of Appendix.

The CAS-number 97-56-3 (no. 5) and 99-55-8 (no. 6) are further reduced to CAS-number 95-53-4 (no. 18) and 95-80-7 (no. 19), respectively.

The colorant(s) of Test Item(s), that are able to form 4-aminoazobenzene, is (are) able to generate aniline and 1,4-phenylenediamine under the condition of Test Method.

The absence of 4-aminoazobenzene is inferred by the absence of aniline and 1,4-phenylenediamine under the condition of Test Method.



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RESULTS:

LIST OF BANNED AMINES		
Specified Amines		
Number	Chemical Name	CAS Number
1.	4-aminobiphenyl	92-67-1
2.	Benzidine	92-87-5
3.	4-chloro-o-toluidine	95-69-2
4.	2-naphthylamine	91-59-8
5.	o-aminoazotoluene	97-56-3
6.	5-nitro-o-toluidine	99-55-8
7.	4-chloroaniline	106-47-8
8.	4-methoxy-m-phenylenediamine	615-05-4
9.	4,4'-diaminodiphenylmethane	101-77-9
10.	3,3'-dichlorobenzidine	91-94-1
11.	3,3'-dimethoxybenzidine	119-90-4
12.	3,3'-dimethylbenzidine	119-93-7
13.	4,4'-methylenedi-o-toluidine	838-88-0
14.	p-cresidine	120-71-8
15.	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4
16.	4,4'-oxydianiline	101-80-4
17.	4,4'-thiodianiline	139-65-1
18.	o-toluidine	95-53-4
19.	4-methyl-m-phenylenediamine	95-80-7
20.	2,4,5-trimethylaniline	137-17-7
21.	o-anisidine	90-04-0
22.	4-amino azobenzene	60-09-3



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RESULTS:

Polycyclic Aromatic Hydrocarbons (PAHs) Content – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 50, Paragraph 5 and 6

Test Method : German AfPS GS 2019:01 PAK

Maximum Allowable Limit:	Type I	Articles includes amongst others: - sport equipment such as bicycles, golf clubs, racquets - household utensils, trolleys, walking frames tools for domestic use - clothing, footwear, gloves and sportswear - watch-straps, wrist-bands, masks, head-bands 1 mg/kg (Each of all listed PAHs)
	Type II	Toys, including activity toys, and childcare articles 0.5 mg/kg (Each of all listed PAHs)

Tested Item(s)	Type	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
I001	II	ND	ND	mg/kg	PASS
I002	II	ND	ND	mg/kg	PASS
I003	II	ND	ND	mg/kg	PASS
I004	II	ND	ND	mg/kg	PASS
I005	II	ND	ND	mg/kg	PASS
I006	II	ND	ND	mg/kg	PASS
I007	II	ND	ND	mg/kg	PASS
I008	II	ND	ND	mg/kg	PASS
I009	II	ND	ND	mg/kg	PASS
I010	II	ND	ND	mg/kg	PASS
I011	II	ND	ND	mg/kg	PASS
I012	II	ND	ND	mg/kg	PASS
I013	II	ND	ND	mg/kg	PASS
I014	II	ND	ND	mg/kg	PASS
I015	II	ND	ND	mg/kg	PASS
I016	II	ND	ND	mg/kg	PASS
I017	II	ND	ND	mg/kg	PASS
I018	II	ND	ND	mg/kg	PASS
I019	II	ND	ND	mg/kg	PASS
I020	II	ND	ND	mg/kg	PASS



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RESULTS:

Note / key:

ND = Not detected ">" = Greater than Conc. = Concentration
mg/kg = milligram(s) per kilogram
Detection Limit (mg/kg): Each PAHs: 0.2;

Remark:

- The list of polycyclic aromatic hydrocarbons is summarized in table of Appendix.

APPENDIX:

List of Polycyclic Aromatic Hydrocarbons:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Benzo[a]pyrene (BaP)	50-32-8	5	Benzo[b]fluoranthene (BbFA)	205-99-2
2	Benzo[e]pyrene (BeP)	192-97-2	6	Benzo[j]fluoranthene (BjFA)	205-82-3
3	Benzo[a]anthracene (BaA)	56-55-3	7	Benzo[k]fluoranthene (BkFA)	207-08-9
4	Chrysene (CHR)	218-01-9	8	Dibenzo[a,h]anthracene (DBAhA)	53-70-3



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RESULTS:

Polycyclic Aromatic Hydrocarbons (PAHs) Content – German Product Safety Commission GS Specification AfPS GS 2019:01 PAK

Test Method : With reference to test method mentioned in German AfPS GS 2019:01 PAK

Test Item(s)	Type	Result		Conclusion
		Detected Analyte(s)	Conc.(mg/kg)	
I001	IIa	ND	ND	PASS
I002	IIa	ND	ND	PASS
I003	I	ND	ND	PASS
I004	I	Naphthalene	0.34	PASS
		Sum of all listed PAHs	0.34	
I005	I	Naphthalene	0.36	PASS
		Sum of all listed PAHs	0.36	
I006	IIa	ND	ND	PASS
I007	IIa	ND	ND	PASS
I008	IIa	ND	ND	PASS
I009	IIIa	ND	ND	PASS
I010	IIIa	ND	ND	PASS
I011	I	Naphthalene	0.32	PASS
		Sum of all listed PAHs	0.32	
I012	I	Naphthalene	0.24	PASS
		Sum of all listed PAHs	0.24	
I013	I	ND	ND	PASS
I014	IIIa	ND	ND	PASS
I015	IIa	ND	ND	PASS
I016	IIIa	ND	ND	PASS
I017	IIIa	ND	ND	PASS
I018	IIIa	ND	ND	PASS
I019	IIIa	ND	ND	PASS
I020	IIIa	ND	ND	PASS

Note / key:

ND = Not detected

Conc. = Concentration

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg): Each PAHs: 0.2; Sum of all PAHs: 0.2

Remark:

- The list of polycyclic aromatic hydrocarbons is summarized in table of Appendix.

RESULTS:

APPENDIX:

List of Polycyclic Aromatic Hydrocarbons (PAHs) [German AfPS GS 2019:01 PAK] :						
Category		I	IIa	IIb	IIIa	IIIb
		Materials intended to be put in the mouth, or materials in toys according to the toy directive 2009/48/EC or materials in products for use of children up to three years with long-term intended skin contact (longer than 30s) according intended use	Materials not covered by category 1, with long-term skin contact (longer than 30s) or repeated short-term skin contact according intended use or foreseeable use		Materials not covered by category 1 or 2 with short-term skin contact (up to 30s) according intended use or foreseeable use	
			Use by children under 14	Other consumer products	Use by children under 14	Other consumer products
Name of Analyte(s)	CAS-No.	Limit ^[a] (mg/kg)				
Benzo (a) pyrene	50-32-8	0.2	0.2	0.5	0.5	1
Benzo (e) pyrene	192-97-2	0.2	0.2	0.5	0.5	1
Benzo (a) anthracene	56-55-3	0.2	0.2	0.5	0.5	1
Benzo (b) fluoranthene	205-99-2	0.2	0.2	0.5	0.5	1
Benzo (j) fluoranthene	205-82-3	0.2	0.2	0.5	0.5	1
Benzo (k) fluoranthene	207-08-9	0.2	0.2	0.5	0.5	1
Chrysene	218-01-9	0.2	0.2	0.5	0.5	1
Dibenzo (a,h) anthracene	53-70-3	0.2	0.2	0.5	0.5	1
Benzo (g,h,i) perylene	191-24-2	0.2	0.2	0.5	0.5	1
Indeno (1,2,3-cd) pyrene	193-39-5	0.2	0.2	0.5	0.5	1
Naphthalene	91-20-3	1	2	2	10	10
Phenanthrene	85-01-8	1 (Sum)	5 (Sum)	10 (Sum)	20 (Sum)	50 (Sum)
Pyrene	129-00-0					
Anthracene	120-12-7					
Fluoranthene	206-44-0					
Total 15 PAHs		1	5	10	20	50
CAS-No. = Chemical Abstracts Service registry number ^[a] denotes as this (these) limit(s) applies to product(s) with GS-Mark dated on or after July 01, 2020.						



RESULTS:

Short Chain Chlorinated Paraffins (SCCP) Content - European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs), Annex I, Part A

Test Method : Solvent extraction and then analyzed by Gas Chromatograph Mass Spectrometer Negative Chemical Ionization (GC-MS/NCI).

Limit :	1500 mg/kg
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Test Item(s)	Result	Unit	Conclusion
	SCCP		
I003+I004+I005	136.73	mg/kg	PASS
I006+I007+I008	ND	mg/kg	PASS
I009+I010+I011	63.55	mg/kg	PASS
I012+I013+I014	ND	mg/kg	PASS
I015+I017	ND	mg/kg	PASS
I016	ND	mg/kg	PASS
I018+I019+I020	ND	mg/kg	PASS
I021	ND	mg/kg	PASS

Note / key:

ND = Not detected mg/kg = milligram(s) per kilogram Detection Limit: 30 mg/kg

Remark:

Plastics and leather material(s) of product(s) are applicable to be tested only.

Total Lead Content in Surface Coating – ASTM International Standard ASTM F963-17, Section 4.3.5.1(1)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Maximum Allowable Limit :	90 mg/kg
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Test Item(s)	Result	Unit	Conclusion
	Total Lead (Pb)		
I001+I002	ND	mg/kg	PASS

Note / key:

ND = Not detected
 mg/kg = milligram(s) per kilogram
 Detection Limit (mg/kg) : 10



RESULTS:

Total Lead Content in Substrate – ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(a)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Maximum Allowable Limit :	100 mg/kg
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Test Item(s)	Result	Unit	Conclusion
	Total Lead (Pb)		
I003+I004+I005	ND	mg/kg	PASS
I006+I007+I008	ND	mg/kg	PASS
I009+I010+I011	ND	mg/kg	PASS
I012+I013+I014	ND	mg/kg	PASS
I015+I017	ND	mg/kg	PASS
I016	ND	mg/kg	PASS
I018+I019+I020	ND	mg/kg	PASS
I021	ND	mg/kg	PASS
I029	ND	mg/kg	PASS
I039	ND	mg/kg	PASS
I040	ND	mg/kg	PASS
I041	ND	mg/kg	PASS
I042	ND	mg/kg	PASS
I043	44	mg/kg	PASS
I044	ND	mg/kg	PASS
I045	ND	mg/kg	PASS
I046	ND	mg/kg	PASS
I047	ND	mg/kg	PASS
I048	ND	mg/kg	PASS
I049	ND	mg/kg	PASS

Note / key:

- ND = Not detected
- mg/kg = milligram(s) per kilogram
- Detection Limit (mg/kg) : 10



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Soluble Heavy Metals Content in Surface Coating –ASTM F963-17, Section 4.3.5.1(2)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.4

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
I001	ND	400	ND	ND	ND	ND	ND	ND	-	PASS
I002	ND	340	ND	ND	ND	ND	ND	ND	-	PASS

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
 Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
 ND = Not detected g = gram(s) % = percent
 mg/kg = milligram(s) per kilogram
 Detection Limit (mg/kg) : As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50



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RESULTS:

Soluble Heavy Metals Content in Substrate –ASTM F963-17, Section 4.3.5.2(2)(b)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
Type I: Substrate other than modeling clay										
I003	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I004	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I005	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I006	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I007	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I008	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I009	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I010	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I011	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I012	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I013	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I014	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I015	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I016	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I017	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I018	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I019	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I020	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I021	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I022	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I023	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I024	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I025	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS



RESULTS:

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
Type I: Substrate other than modeling clay										
I026	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I027	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I028	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I029	ND	ND	ND	ND	ND	ND	18	ND	-	PASS
I030	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I031	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I032	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I033	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I034	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I036	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS
I037	ND	ND	ND	ND	ND	ND	8	ND	-	PASS
I038	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS

Note / key:

As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium
 Hg = Mercury Pb = Lead Sb = Antimony Se = Selenium
 ND = Not detected g = gram(s) % = percent
 mg/kg = milligram(s) per kilogram (ppm=parts per million)
 Detection Limit (mg/kg) :
 For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50
 For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.



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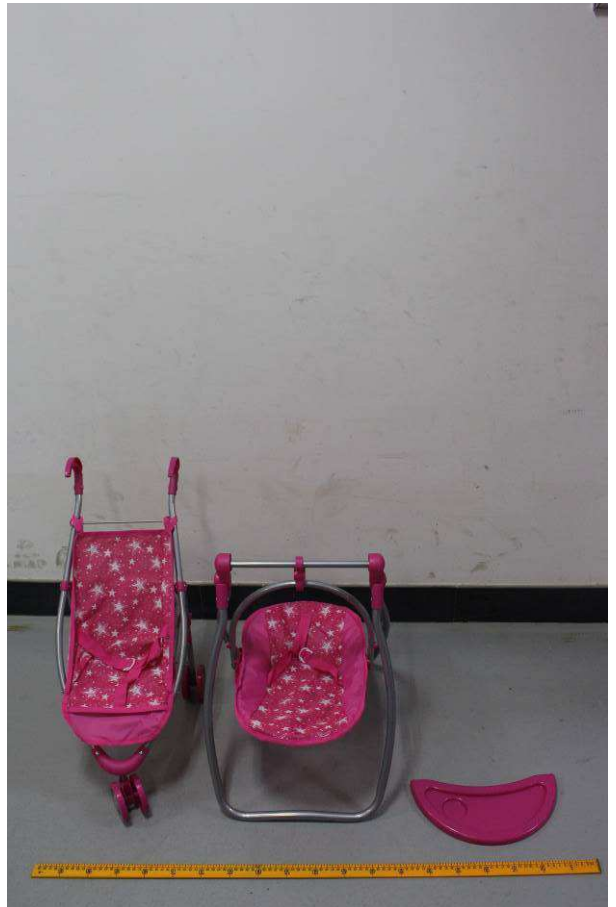
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