



SMARTRIKE HONG-KONG LOGISTICS LIMITED

Technical Report: (6625)182-0619

Date Received: July 1, 2025

November 13, 2025

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SMARTRIKE HONG-KONG LOGISTICS LIMITED

ROOM 1205, 12/F, NEW MANDARIN PLAZA, TOWER
B, 14 SCIENCE MUSEUM ROAD, TSIM SHA TSUI,
EAST KOWLOON, HONG-KONG.

Sample Description:	SMARTRIKE WONDER / WIND ACCESSORIES - CUP HOLDER, SHOULDER PADS, HAMMOCK STORAGE, MOSQUITO NET, BUMPER BAR, RAIN COVER, PADDED SEAT COVER, BAG HOOKS, PEDALS & CAPS		
Vendor:	SMARTRIKE HONG-KONG LOGISTICS LIMITED	Sample Size:	/
Manufacturer:	FUJIAN O'SK BABY AND CHILDREN PRODUCTS CORP. LTD.	Style No(s):	580
Buyer:	/	SKN/SKU No.:	/
Labeled Age Grade:	/	PO No.:	/
Appropriate Age Grade:	/	Ref #:	/
Client Specified Age Grade:	/	Country of Origin:	CHINA
Tested Age Grade:	/	Country of Destination:	EUROPE
UPC Code:	/	Color:	/



**BUREAU
VERITAS**

Item number:

0000	0201	0406	0622	0820	1130	1404	1612	1810	2001	6500
0002	0202	0406	0623	0821	1133	1405	1613	1811	2002	7000
0003	0203	0407	0630	0830	1145	1406	1620	1812	2003	7100
0004	0204	0408	0631	0831	1185	1407	1621	1813	2100	7200
0005	0205	0409	0632	0840	1200	1408	1622	1820	2200	7300
0006	0206	0410	0633	0841	1201	1409	1623	1821	2300	7400
0009	0207	0411	0640	0900	1202	1414	1630	1822	2400	7500
0011	0208	0414	0641	0901	1203	1416	1631	1823	2500	8000
0012	0209	0433	0642	0902	1204	1433	1632	1830	2600	8100
0013	0210	0500	0643	0910	1205	1500	1640	1831	2700	8200
0014	0211	0501	0700	1000	1206	1501	1641	1832	2800	8300
0022	0214	0502	0701	1001	1207	1502	1642	1840	2900	8400
0030	0233	0510	0702	1002	1208	1503	1700	1841	3000	8500
0033	0298	0511	0703	1003	1209	1510	1701	1842	3100	9000
0100	0300	0512	0710	1004	1211	1511	1702	1843	3200	9100
0101	0301	0513	0711	1005	1214	1512	1703	1900	3300	9200
0102	0302	0520	0712	1006	1216	1513	1710	1901	3400	9300
0103	0303	0521	0713	1007	1233	1520	1711	1902	3500	9400
0104	0304	0522	0720	1008	1300	1521	1712	1903	4000	9500
0105	0305	0530	0721	1009	1301	1522	1713	1910	4100	2001
0106	0306	0531	0722	1011	1302	1523	1720	1911	4200	2002
0107	0307	0532	0723	1014	1303	1524	1721	1912	4300	3001
0108	0308	0540	0730	1033	1304	1530	1722	1913	4400	3002
0109	0309	0541	0731	1100	1305	1531	1723	1920	4500	4001
0111	0311	0542	0732	1101	1306	1532	1730	1921	5000	4002
0113	0333	0600	0740	1102	1307	1540	1731	1922	5100	5001
0114	0340	0601	0741	1103	1308	1541	1732	1923	5200	5002
0115	0345	0602	0742	1104	1309	1542	1740	1930	5300	6001
0118	0400	0603	0743	1105	1311	1543	1741	1931	5400	6002
0133	0401	0610	0800	1106	1314	1600	1742	1932	5500	7001
0134	0402	0611	0801	1107	1333	1601	1743	1940	6000	7002
0135	0403	0612	0802	1108	1400	1602	1800	1941	6100	8001
0136	0404	0613	0810	1109	1401	1603	1801	1942	6200	8002
0199	0405	0620	0811	1110	1402	1610	1802	1943	6300	9001
0200	0405	0621	0812	1111	1403	1611	1803	2000	6400	9002

Remark:

1. The above-listed items were confirmed to be identical to the samples received after clarification by the client.
2. This bumper bar and rain cover only can be used in conjunction with the WIND/WONDER.
3. The shoulder pads only can be used in conjunction with the WONDER MAX.

**EXECUTIVE SUMMARY:**

The sample(s) was tested to the following requirement(s) and the data provided is for informational purposes only:

- EN 1888-1:2018+A1:2022 Child Use And Care Articles – Wheeled Child Conveyances – Part 1: Pushchairs And Prams – Clause 8.2, Clause 8.3, Clause 8.4, Clause 8.5, Clause 8.6, Clause 8.7, Clause 8.8, Clause 8.9
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020.
- 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.
- Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Test & As Applicant's requirement
- The migration of certain elements in Category III - Scraped off toy material requirements of client's specification, with reference to the European Standard, "Safety of Toys", EN 71 Part 3: 2019+A2:2024.
- The total lead content in consumer articles 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. 63, Point 7.
- The cadmium 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. 23.
- The short chain chlorinated paraffins (SCCPs) content requirement of the European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs) (recast).
- The pentachlorophenol (PCP, with its salts and esters) content requirement of European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs).
- The Dimethylformamide content according to of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII, Entry 72 restricted substances and maximum concentration limits by weight in homogeneous materials.
- The benzene content requirement in toys or parts of toys 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 5, Point 1.
- 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 DBT, DOT and tri-substituted organostannic compound content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorization 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. 20 (4, 5 & 6).
- The TCEP, TDCPP and TCPP content requirement of the European Council Directive 2009/48/EC (and its amendments), Annex II, Appendix C.



- 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; together with 2,4-dimethylaniline and 2,6-dimethylaniline content requirement of the client's specification.
- The flame retardants of Tetra-BDE/Penta-BDE/Hexa-BDE/Hepta-BDE/Deca-BDE content (European Parliament and Council Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs).
- The phenol (migration) in toy requirement of the European Council Directive 2009/48/EC (and its amendments), Annex II, Appendix C.
- The Bisphenol A content requirement of the European Council Directive 2009/48/EC (and its amendments), Annex II, Appendix C.
- The formaldehyde migration requirement in polymeric toy material of the European Council Directive 2009/48/EC (and its amendments Directive EU 2019/2022), Annex II, Appendix C.
- The formaldehyde in textile content requirements of the European Council Directive 2009/48/EC (and its amendments), Annex II, Appendix C.
- Colourfastness of articles in Resistance to Artificial – Saliva and Perspiration in the specified specimen(s) as listed



BVCPS (SHANGHAI) GENERAL CONTACT INFORMATION FOR THIS REPORT

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PROJECT MANAGER-HARDLINE & TOY PRODUCT

BUREAU VERITAS
CONSUMER PRODUCTS SERVICE DIVISION (SHANGHAI)
Laboratory Test location:

No. 368, Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai.

No. 168, Guanghua Road, Zhuanqiao Town, Minhang, Shanghai.



**EN 1888-1:2018+A1:2022 CHILD USE AND CARE ARTICLES – WHEELED CHILD CONVEYANCES – PART 1:
PUSHCHAIRS AND PRAMS – CLAUSE 8.2, CLAUSE 8.3, CLAUSE 8.4, CLAUSE 8.5, CLAUSE 8.6, CLAUSE 8.7,
CLAUSE 8.8, CLAUSE 8.9**

Clauses	Requirement	Result
8	Mechanical hazards	-
8.2	Entrapment hazards	-
8.2.1	Holes and openings	M
8.2.2	Entrapment between the handle and the pram body	NA
8.3	Hazards from moving parts	-
8.3.1	General	M
8.3.2	Shearing hazard	M
8.3.3	Crushing hazard, requirement	M
8.3.4	Wheels	M
8.3.5	Locking mechanism	-
8.3.5.1	Folding system for storage or transportation	M
8.3.5.2	Pushchairs with rotating seat units	NA
8.3.5.3	Handle movement	M
8.3.5.4	Requirements for the attachment of pram body and seat unit and car seats to the chassis	NA
8.4	Entanglement hazards	NA
8.5	Choking and ingestion hazards	M
8.6	Suffocation hazards	-
8.6.1	Internal lining of the pram body and seat unit	M
8.6.2	Plastic packaging	NA
8.7	Hazardous edges and protrusions	M
8.8	Parking and braking devices	M
8.9	Stability	-
8.9.1	Stability of vehicle	M
8.9.2	Longitudinal stability of a pram body with carrying handles	NA

M = Meet N/A = Not Applicable



FLAMMABILITY (EN 71 PART 2: 2020)

Subclause	Requirement	Result
4.1	Cellulose nitrate	M
4.1	Highly flammable solids	M
4.1	Surface flash on a piled surface	M
4.1	Flammable gases	NA
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	M
4.4	warning on product and packaging (10 – 30 mm/s)	NT
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Subclause	Test Method	Subclause	Test Method	Subclause	Test Method	Subclause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

N/A = Not Applicable M = Meet NT = Not Tested(as per client's request)



Tested Component(s) Breakdown List

Sample Identity	Color / Component	Location	Remark
1	Transparent soft plastic	/	/
2	Black fabric	/	/
3	Black hemmed fabric/black thread	/	/
4	Black bristle buckle	/	/
5	Black fringed fabric	/	/
6	Black thorn buckle	/	/
7	Black wool buckle	/	/
8	Black line	/	/
9	Black plastic	Armrest end cap	/
10	Black plastic	Enclosure buckle	/
11	Black plastic	Enclosure bracket	/
12	White plastic	Enclosure bracket square button	/
13	White plastic	Enclosure bracket round button	/
14	Black plastic	Enclosure	/
15	White plastic	Enclosure button	/
16	Black plastic	Snap button	/
17	Black plastic	Webbing buckle	/
18	Black webbing	/	/
19	Black mesh cloth	/	/
20	Black lining cloth	/	/
21	Black fringed fabric	/	/

Remark:

1. Only the above test components were specified, and the related chemistry testing of the stroller was not tested as per client's request.



BBP / DBP / DEHP CONTENTS IN TOYS AND CHILDRCARE ARTICLES (EUROPEAN REGULATION (EC) NO. 1907/2006 REACH ANNEX XVII, ITEM NO. 51)
DNOP / DINP / DIDP CONTENTS IN TOYS AND CHILDRCARE ARTICLES WHICH CAN BE PLACED IN MOUTH BY THE CHILDREN (EUROPEAN REGULATION (EC) NO. 1907/2006 REACH ANNEX XVII, ITEM NO. 52)

Method: : EC No. 1907/2006 Annex XVII Item No. 51&52 / CPSD-AN-00095-MTHD / CPSD-AN-00143-MTHD

Parameter	CAS No.	Unit	Detection Limit	Result				Limit
				1	9	10+11	12+13+14	
DEHP	117-81-7	%	0.005	ND	ND	ND	ND	0.1
DBP	84-74-2	%	0.005	ND	ND	ND	ND	0.1
BBP	85-68-7	%	0.005	ND	ND	ND	ND	0.1
DIBP	84-69-5	%	0.005	ND	ND	ND	ND	0.1
sum of DBP, BBP, DEHP, DIBP	-	%	-	ND	ND	ND	ND	0.1
DIDP	26761-40-0	%	0.005	ND	ND	ND	ND	0.1
DNOP	117-84-0	%	0.005	ND	ND	ND	ND	0.1
DINP	28553-12-0	%	0.005	ND	ND	ND	ND	0.1
sum of DNOP, DIDP, DINP	-	%	-	ND	ND	ND	ND	0.1
Conclusion	-	-	-	PASS	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result				Limit
				15+16	-	-	-	
DEHP	117-81-7	%	0.005	ND	-	-	-	0.1
DBP	84-74-2	%	0.005	ND	-	-	-	0.1
BBP	85-68-7	%	0.005	ND	-	-	-	0.1
DIBP	84-69-5	%	0.005	ND	-	-	-	0.1
sum of DBP, BBP, DEHP, DIBP	-	%	-	ND	-	-	-	0.1
DIDP	26761-40-0	%	0.005	ND	-	-	-	0.1
DNOP	117-84-0	%	0.005	ND	-	-	-	0.1
DINP	28553-12-0	%	0.005	ND	-	-	-	0.1
sum of DNOP, DIDP, DINP	-	%	-	ND	-	-	-	0.1
Conclusion	-	-	-	PASS	-	-	-	-

ND = None detected

Remark:

- The above results of test items 9, 10, 11, 12, 13, 14, 15 & 16 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



PERFLUOROALKYL AND POLYFLUOROALKYL SUBSTANCES (PFAS) TEST & AS APPLICANT'S REQUIREMENT

Test Method: In house method and analysis by Gas Chromatograph Mass Spectrometer (GC-MS) and Liquid Chromatograph Mass/Mass Spectrometer (LC-MS-MS).

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	2	-	
PFOS and related substances							
PFOS and its salts including PFOS-K, PFOS-Li, PFOS-NH ₄ , PFOS-NH(OH) ₂ , PFOS-N(C ₂ H ₅) ₄ , PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂ and PFOSF	1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3 & 307-35-7	ppb	25	ND	ND	-	25
N-MeFOSA	31506-32-8	ppb	10	ND	ND	-	-
N-EtFOSA	4151-50-2	ppb	10	ND	ND	-	-
N-MeFOSE	24448-09-7	ppb	10	ND	ND	-	-
N-EtFOSE	1691-99-2	ppb	10	ND	ND	-	-
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	ppb	10	ND	ND	-	-
PFOS-related substances	-	ppb	1000	ND	ND	-	1000
PFOA and its salts							
PFOA and its salts including PFOA-Na, PFOA-K, PFOA-Ag, PFOA-F and APFO	335-67-1, 335-66-0, 376-27-2, 3108-24-5, 335-95-5, 2395-00-8, 335-93-3, 3825-26-1	ppb	25	ND	ND	-	25
PFOA related substances							
Et-PFOA	3108-24-5	ppb	10	ND	ND	-	-
Me-PFOA	376-27-2	ppb	10	ND	ND	-	-
8:2 FTS	39108-34-4	ppb	10	ND	ND	-	-
8:2 FTOH	678-39-7	ppb	50	ND	ND	-	-
8:2 FTA	27905-45-9	ppb	-	ND	ND	-	-
8:2 FTMAC	1996-88-9	ppb	-	ND	ND	-	-
H ₂ PFDA	882489-14-7	ppb	10	ND	ND	-	-
PFOA related substances	-	ppb	1000	ND	ND	-	1000
PFHxS and its salts							
PFHxS and its salts	355-46-4	ppb	25	ND	ND	-	25
PFHxS related substances							
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	ppb	100	ND	ND	-	-
N-Methylperfluoro-1-hexanesulfonamide (N-Me-FHxSA)	68259-15-4	ppb	100	ND	ND	-	-
PFHxS related substances	--	ppb	1000	ND	ND	-	1000



C9-C14 PFCAs and their salts		-	-	-	-	-	-
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	ppb	10	ND	ND	-	-
Perfluoro-n-decanoic acid (PFDA)	335-76-2	ppb	10	ND	ND	-	-
Perfluoroundecanoic Acid (PFUnA)	2058-94-8 or 4234-23-5	ppb	10	ND	ND	-	-
Perfluorododecanoic acid	307-55-1	ppb	10	ND	ND	-	-
Perfluorotridecanoic Acid (PFTrA)	72629-94-8	ppb	10	ND	ND	-	-
Perfluorotetradecanoic Acid (PFTeA)	376-06-7	ppb	10	ND	ND	-	-
PF-3,7-DMOA	172155-07-6	ppb	10	ND	ND	-	-
C9-C14 Perfluorocarboxylic acids (PFCAs) and their salts	Various	ppb	25	ND	ND	-	25
C9-C14 PFCa -related substances		-	-	-	-	-	-
10:2 FTA	17741-60-5	ppb	-	ND	ND	-	-
10:2 FTMAC	2144-54-9	ppb	-	ND	ND	-	-
10:2 FTOH	865-86-1	ppb	50	ND	ND	-	-
H4PFUnA	34598-33-9	ppb	10	ND	ND	-	-
12:2 FTOH	39239-77-5	ppb	50	ND	ND	-	-
10:2 FTS	120226-60-0	ppb	10	ND	ND	-	-
10:2 FTI	2043-54-1	ppb	-	ND	ND	-	-
12:2 FTI	30046-31-2	ppb	-	ND	ND	-	-
C9-C14 Perfluorocarboxylic acids (PFCAs) -related substances(Including 8:2 FTOH)	Various	ppb	260	ND	ND	-	260
PFHxA and its salts		-	-	-	-	-	-
PFHxA and its salts	307-24-4	ppb	25	ND	ND	-	25
PFHxA and related substances		-	-	-	-	-	-
6:2 FTS	27619-97-2	ppb	10	ND	ND	-	-
2-Perfluorohexylethanol (FTOH 6:2)	647-42-7	ppb	50	ND	ND	-	-
6:2 FTMAC	2144-53-8	ppb	-	ND	ND	-	-
6:2 FTA	17527-29-6	ppb	-	ND	ND	-	-
PFHxA related substances	-	ppb	1000	ND	ND	-	1000

Note: ND = Not detected



MIGRATION OF CERTAIN ELEMENTS - EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 2009/48/EC, ANNEX II, PART III, POINT 13 WITH ITS LATEST AMENDMENT

Test Method : European Standard EN 71 Part 3: 2019+A2:2024

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table:	Type I	Dry, brittle, powder-like or pliable toy material
	Type II	Liquid or sticky toy material
	Type III	Scraped-off toy material

-	CAS No.	Unit	Limit	Detection Limit	Result			
					1	2	5	6
Test Item(s)	-	-	-	-	1	2	5	6
Type	-	-	-	-	III	III	III	III
Parameter	-	-	-	-	-	-	-	-
Mass of Trace Amount	-	g	-	-	-	-	-	-
Boron (B)	7440-42-8	mg/kg	15000	1500	ND	ND	ND	ND
Aluminium (Al)	7429-90-5	mg/kg	28130	2813	ND	ND	ND	ND
Chromium III (Cr III)	7440-47-3	mg/kg	460	46	ND	ND	ND	ND
Chromium VI (Cr VI)	18540-29-9	mg/kg	0.053	0.005	ND	ND	ND	ND
Manganese (Mn)	7439-96-5	mg/kg	15000	1500	ND	ND	ND	ND
Cobalt (Co)	7440-48-4	mg/kg	130	13	ND	ND	ND	ND
Nickel (Ni)	7440-02-0	mg/kg	930	93	ND	ND	ND	ND
Copper (Cu)	7440-50-8	mg/kg	7700	770	ND	ND	ND	ND
Zinc (Zn)	7440-66-6	mg/kg	46000	4600	ND	ND	ND	ND
Arsenic (As)	7440-38-2	mg/kg	47	4.7	ND	ND	ND	ND
Selenium (Se)	7782-49-2	mg/kg	460	46	ND	ND	ND	ND
Strontium (Sr)	7440-24-6	mg/kg	56000	5600	ND	ND	ND	ND
Cadmium (Cd)	7440-43-9	mg/kg	17	1.7	ND	ND	ND	ND
Tin (Sn)	7440-31-5	mg/kg	180000	18000	ND	ND	ND	ND
Antimony (Sb)	7440-36-0	mg/kg	560	56	ND	ND	ND	ND
Barium (Ba)	7440-39-3	mg/kg	18750	1875	ND	ND	ND	ND
Mercury (Hg)	7439-97-6	mg/kg	94	9.4	ND	ND	ND	ND
Lead (Pb)	7439-92-1	mg/kg	23	2.3	ND	ND	ND	ND
Organic tin	various	mg/kg	12	1.2	ND	6.72	1.46	1.25
Conclusion	-	-	-	-	PASS	PASS	PASS	PASS

-	CAS No.	Unit	Limit	Detection Limit	Result			
					7	8	9	10
Test Item(s)	-	-	-	-	7	8	9	10
Type	-	-	-	-	III	III	III	III
Parameter	-	-	-	-	-	-	-	-
Mass of Trace Amount	-	g	-	-	-	-	-	-
Boron (B)	7440-42-8	mg/kg	15000	1500	ND	ND	ND	ND
Aluminium (Al)	7429-90-5	mg/kg	28130	2813	ND	ND	ND	ND



**BUREAU
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Chromium III (Cr III)	7440-47-3	mg/kg	460	46	ND	ND	ND	ND
Chromium VI (Cr VI)	18540-29-9	mg/kg	0.053	0.005	ND	ND	ND	ND
Manganese (Mn)	7439-96-5	mg/kg	15000	1500	ND	ND	ND	ND
Cobalt (Co)	7440-48-4	mg/kg	130	13	ND	ND	ND	ND
Nickel (Ni)	7440-02-0	mg/kg	930	93	ND	ND	ND	ND
Copper (Cu)	7440-50-8	mg/kg	7700	770	ND	ND	ND	ND
Zinc (Zn)	7440-66-6	mg/kg	46000	4600	ND	ND	ND	ND
Arsenic (As)	7440-38-2	mg/kg	47	4.7	ND	ND	ND	ND
Selenium (Se)	7782-49-2	mg/kg	460	46	ND	ND	ND	ND
Strontium (Sr)	7440-24-6	mg/kg	56000	5600	ND	ND	ND	ND
Cadmium (Cd)	7440-43-9	mg/kg	17	1.7	ND	ND	ND	ND
Tin (Sn)	7440-31-5	mg/kg	180000	18000	ND	ND	ND	ND
Antimony (Sb)	7440-36-0	mg/kg	560	56	ND	ND	ND	ND
Barium (Ba)	7440-39-3	mg/kg	18750	1875	ND	ND	ND	ND
Mercury (Hg)	7439-97-6	mg/kg	94	9.4	ND	ND	ND	ND
Lead (Pb)	7439-92-1	mg/kg	23	2.3	ND	ND	ND	ND
Organic tin	various	mg/kg	12	1.2	ND	3.84	2.07	ND
Conclusion	-	-	-	-	PASS	PASS	PASS	PASS

-	CAS No.	Unit	Limit	Detection Limit	Result			
					11	12	13	14
Test Item(s)	-	-	-	-	11	12	13	14
Type	-	-	-	-	III	III	III	III
Parameter	-	-	-	-	-	-	-	-
Mass of Trace Amount	-	g	-	-	-	-	-	-
Boron (B)	7440-42-8	mg/kg	15000	1500	ND	ND	ND	ND
Aluminium (Al)	7429-90-5	mg/kg	28130	2813	ND	ND	ND	ND
Chromium III (Cr III)	7440-47-3	mg/kg	460	46	ND	ND	ND	ND
Chromium VI (Cr VI)	18540-29-9	mg/kg	0.053	0.005	ND	ND	ND	ND
Manganese (Mn)	7439-96-5	mg/kg	15000	1500	ND	ND	ND	ND
Cobalt (Co)	7440-48-4	mg/kg	130	13	ND	ND	ND	ND
Nickel (Ni)	7440-02-0	mg/kg	930	93	ND	ND	ND	ND
Copper (Cu)	7440-50-8	mg/kg	7700	770	ND	ND	ND	ND
Zinc (Zn)	7440-66-6	mg/kg	46000	4600	ND	ND	ND	ND
Arsenic (As)	7440-38-2	mg/kg	47	4.7	ND	ND	ND	ND
Selenium (Se)	7782-49-2	mg/kg	460	46	ND	ND	ND	ND
Strontium (Sr)	7440-24-6	mg/kg	56000	5600	ND	ND	ND	ND
Cadmium (Cd)	7440-43-9	mg/kg	17	1.7	ND	ND	ND	ND
Tin (Sn)	7440-31-5	mg/kg	180000	18000	ND	ND	ND	ND
Antimony (Sb)	7440-36-0	mg/kg	560	56	ND	ND	ND	ND
Barium (Ba)	7440-39-3	mg/kg	18750	1875	ND	ND	ND	ND
Mercury (Hg)	7439-97-6	mg/kg	94	9.4	ND	ND	ND	ND
Lead (Pb)	7439-92-1	mg/kg	23	2.3	ND	ND	ND	ND
Organic tin	various	mg/kg	12	1.2	ND	ND	ND	ND
Conclusion	-	-	-	-	PASS	PASS	PASS	PASS



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-	CAS No.	Unit	Limit	Detection Limit	Result			
					15	16	17	18
Test Item(s)	-	-	-	-	15	16	17	18
Type	-	-	-	-	III	III	III	III
Parameter	-	-	-	-	-	-	-	-
Mass of Trace Amount	-	g	-	-	-	-	-	-
Boron (B)	7440-42-8	mg/kg	15000	1500	ND	ND	ND	ND
Aluminium (Al)	7429-90-5	mg/kg	28130	2813	ND	ND	ND	ND
Chromium III (Cr III)	7440-47-3	mg/kg	460	46	ND	ND	ND	ND
Chromium VI (Cr VI)	18540-29-9	mg/kg	0.053	0.005	ND	ND	ND	ND
Manganese (Mn)	7439-96-5	mg/kg	15000	1500	ND	ND	ND	ND
Cobalt (Co)	7440-48-4	mg/kg	130	13	ND	ND	ND	ND
Nickel (Ni)	7440-02-0	mg/kg	930	93	ND	ND	ND	ND
Copper (Cu)	7440-50-8	mg/kg	7700	770	ND	ND	ND	ND
Zinc (Zn)	7440-66-6	mg/kg	46000	4600	ND	ND	ND	ND
Arsenic (As)	7440-38-2	mg/kg	47	4.7	ND	ND	ND	ND
Selenium (Se)	7782-49-2	mg/kg	460	46	ND	ND	ND	ND
Strontium (Sr)	7440-24-6	mg/kg	56000	5600	ND	ND	ND	ND
Cadmium (Cd)	7440-43-9	mg/kg	17	1.7	ND	ND	ND	ND
Tin (Sn)	7440-31-5	mg/kg	180000	18000	ND	ND	ND	ND
Antimony (Sb)	7440-36-0	mg/kg	560	56	ND	ND	ND	ND
Barium (Ba)	7440-39-3	mg/kg	18750	1875	ND	ND	ND	ND
Mercury (Hg)	7439-97-6	mg/kg	94	9.4	ND	ND	ND	ND
Lead (Pb)	7439-92-1	mg/kg	23	2.3	ND	ND	ND	ND
Organic tin	various	mg/kg	12	1.2	4.34	ND	ND	1.81
Conclusion	-	-	-	-	PASS	PASS	PASS	PASS

-	CAS No.	Unit	Limit	Detection Limit	Result			
					19	20	21	-
Test Item(s)	-	-	-	-	19	20	21	-
Type	-	-	-	-	III	III	III	-
Parameter	-	-	-	-	-	-	-	-
Mass of Trace Amount	-	g	-	-	-	-	-	-
Boron (B)	7440-42-8	mg/kg	15000	1500	ND	ND	ND	-
Aluminium (Al)	7429-90-5	mg/kg	28130	2813	ND	ND	ND	-
Chromium III (Cr III)	7440-47-3	mg/kg	460	46	ND	ND	ND	-
Chromium VI (Cr VI)	18540-29-9	mg/kg	0.053	0.005	ND	ND	ND	-
Manganese (Mn)	7439-96-5	mg/kg	15000	1500	ND	ND	ND	-
Cobalt (Co)	7440-48-4	mg/kg	130	13	ND	ND	ND	-
Nickel (Ni)	7440-02-0	mg/kg	930	93	ND	ND	ND	-
Copper (Cu)	7440-50-8	mg/kg	7700	770	ND	ND	ND	-
Zinc (Zn)	7440-66-6	mg/kg	46000	4600	ND	ND	ND	-
Arsenic (As)	7440-38-2	mg/kg	47	4.7	ND	ND	ND	-
Selenium (Se)	7782-49-2	mg/kg	460	46	ND	ND	ND	-
Strontium (Sr)	7440-24-6	mg/kg	56000	5600	ND	ND	ND	-



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Cadmium (Cd)	7440-43-9	mg/kg	17	1.7	ND	ND	ND	-
Tin (Sn)	7440-31-5	mg/kg	180000	18000	ND	ND	ND	-
Antimony (Sb)	7440-36-0	mg/kg	560	56	ND	ND	ND	-
Barium (Ba)	7440-39-3	mg/kg	18750	1875	ND	ND	ND	-
Mercury (Hg)	7439-97-6	mg/kg	94	9.4	ND	ND	ND	-
Lead (Pb)	7439-92-1	mg/kg	23	2.3	ND	ND	ND	-
Organic tin	various	mg/kg	12	1.2	ND	ND	ND	-
Conclusion	-	-	-	-	PASS	PASS	PASS	-

Note:

ND = Not detected

Req. = Requirement

g = gram(s)

">" = Greater than

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- If combined Cr content exceeds 0.02mg/kg in I mat., 0.005 mg/kg in II mat., or 0.053mg/kg in III mat., confirmation Cr(VI). Cr(III)=Combined Cr – Cr(VI)
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- If total tin content in sample exceeds 0.369mg/kg in I mat., 0.082mg/kg in II mat., or 4.915mg/kg in III mat., the sample is required for organic tin analysis.
- The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was (were) not subject to migration of certain elements of European Standard, "Safety of Toys, EN 71-3: 2019 + A2: 2024", as specified in Section 7.1 - Selection of test portions.
- # denotes as result(s) was (were) verified by:
For organic tin content - Test method with reference to European Standard EN 71-3: 2019 + A2: 2024, Annex G and reported as tributyltin (TBT) cation.
For Cr VI content - Test method with reference to European Standard EN 71-3: 2019 + A2: 2024, Annex F.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.
- Sample weight of <2-4,26,43,62,83 > obtained to conduct the test is between 0.010 g and 0.100 g. However, the analytical results is calculated as though 0.100 g of test portion had been used.

Remark:

- The above results of test items 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



TOTAL LEAD CONTENT IN CONSUMER ARTICLES (EUROPEAN REGULATION (EC) NO. 1907/2006 REACH, ANNEX XVII, ITEM NO. 63, POINT 7)

Method : Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry.

Parameter	Unit	MDL	Result			Limit
			1	9	10+11	
Lead(Pb)	mg/kg	10	ND	ND	ND	500
Conclusion	-	-	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result			Limit
			13+14	15+16	17	
Lead(Pb)	mg/kg	10	ND	ND	ND	500
Conclusion	-	-	PASS	PASS	PASS	-

Note:

ND = Not Detected

mg/kg = milligrams per kilogram

MDL = Method Detection Limit

The above results of test items 9, 10 & 11 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



THE CADMIUM 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. 23

Method : EC No. 1907/2006 annex XVII and its amendments item no. 23 / EN 1122:2001 / AOAC 974.02 (Mod) / CPSD-AN-00004-MTHD / CPSD-AN-00066-MTHD

Parameter	Unit	MDL	Result			Limit
			1	9	10+11	
Cadmium(Cd)	mg/kg	10	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	-

Parameter	Unit	MDL	Result			Limit
			13+14	15+16	17	
Cadmium(Cd)	mg/kg	10	ND	ND	ND	100
Conclusion	-	-	PASS	PASS	PASS	-

Note:

ND = Not Detected

mg/kg = milligrams per kilogram

MDL = Method Detection Limit

The above results of test items 9, 10, 11, 13, 14, 15, 16 & 17 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



THE SHORT CHAIN CHLORINATED PARAFFINS (SCCPs) CONTENT REQUIREMENT OF THE EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EU) 2019/1021 ON PERSISTENT ORGANIC POLLUTANTS (POPS) (RECAST)

Method : Regulation (EC) No. 850/2004 and its amendments / CPSD-AN-00810-MTHD

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	9	10+11	
SCCP	85535-84-8	mg/kg	30	ND	ND	ND	1500
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				13+14	15+16	17	
SCCP	85535-84-8	mg/kg	30	ND	ND	ND	1500
Conclusion	-	-	-	PASS	PASS	PASS	-

Note:

mg/kg = milligrams per kilogram

ND =None Detected

The above results of test items 9, 10, 11, 13, 14, 15, 16 & 17 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



PENTACHLOROPHENOL AND ITS SALT AND ESTER (PCP) CONTENT - EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EU) 2019/1021 ON PERSISTENT ORGANIC POLLUTANTS (POPS)

Method: Solvent extraction / GC-MS analysis / CPSD-AN-00093-MTHD / CPSD-AN-00094-MTHD

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				2+4+5	18	19	
PCP	87-86-5	mg/kg	0.05	ND	ND	ND	5
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				20+21	-	-	
PCP	87-86-5	mg/kg	0.05	ND	-	-	5
Conclusion	-	-	-	PASS	-	-	-

Detection Limit (mg/kg):0.05

ND = None detected

The above results of test items 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



DETERMINATION OF DIMETHYL FUMARATE (DMFU) CONTENT OF EUROPEAN REGULATION (EC) NO. 1907/2006 REACH ANNEX XVII, AND AMENDMENTS NO. 61.

Method : ISO/TS 16186:2012

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	2+3+4	9	
DMFu	624-49-7	mg/kg	0.03	ND	ND	ND	0.1
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				10+11	12+13+14	15+16	
DMFu	624-49-7	mg/kg	0.03	ND	ND	ND	0.1
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				17	18	19	
DMFu	624-49-7	mg/kg	0.03	ND	ND	ND	0.1
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				20+21	-	-	
DMFu	624-49-7	mg/kg	0.03	ND	-	-	0.1
Conclusion	-	-	-	PASS	-	-	-

Note:

ND = Not Detected

mg/kg = milligrams per kilogram

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



BENZENE CONTENT IN TOYS OR PARTS OF TOYS (EUROPEAN REGULATION (EC) NO. 1907/2006 REACH ANNEX XVII, ITEM 5, POINT 1)

Method : Samples were heated in the headspace vials and analyzed with Gas Chromatography Mass Spectrometer (HS-GC-MS).

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	2+3+4	9	
Benzene	71-43-2	mg/kg	1	ND	ND	ND	-
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				10+11	12+13+14	15+16	
Benzene	71-43-2	mg/kg	1	ND	ND	ND	-
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				19	20+21	-	
Benzene	71-43-2	mg/kg	1	ND	ND	-	-
	-	-	-	PASS	PASS	-	-

Note:

ND = Not Detected

mg/kg = milligrams per kilogram

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



THE POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONTENT REQUIREMENT OF EUROPEAN REGULATION (EC) NO. 1907/2006 REACH ANNEX XVII, ITEM NO. 50, PARAGRAPH 5 AND 6

Method : Organic solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS).

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	9	10+11	
Benzo (a) anthracene	56-55-3	mg/kg	0.2	ND	ND	ND	0.5
Chrysene	218-01-9	mg/kg	0.2	ND	ND	ND	0.5
Benzo (b) fluoranthene	205-99-2	mg/kg	0.2	ND	ND	ND	0.5
Benzo (j) fluoranthene	205-82-3	mg/kg	0.2	ND	ND	ND	0.5
Benzo (k) fluoranthene	207-08-9	mg/kg	0.2	ND	ND	ND	0.5
Benzo (e) pyrene	192-97-2	mg/kg	0.2	ND	ND	ND	0.5
Benzo (a) pyrene	50-32-8	mg/kg	0.2	ND	ND	ND	0.5
Dibenzo (a,h) anthracene	53-70-3	mg/kg	0.2	ND	ND	ND	0.5
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				12+13+14	15+16	17	
Benzo (a) anthracene	56-55-3	mg/kg	0.2	ND	ND	ND	0.5
Chrysene	218-01-9	mg/kg	0.2	ND	ND	ND	0.5
Benzo (b) fluoranthene	205-99-2	mg/kg	0.2	ND	ND	ND	0.5
Benzo (j) fluoranthene	205-82-3	mg/kg	0.2	ND	ND	ND	0.5
Benzo (k) fluoranthene	207-08-9	mg/kg	0.2	ND	ND	ND	0.5
Benzo (e) pyrene	192-97-2	mg/kg	0.2	ND	ND	ND	0.5
Benzo (a) pyrene	50-32-8	mg/kg	0.2	ND	ND	ND	0.5
Dibenzo (a,h) anthracene	53-70-3	mg/kg	0.2	ND	ND	ND	0.5
Conclusion	-	-	-	PASS	PASS	PASS	-

Note:

ND = Not Detected

mg/kg = milligrams per kilogram

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16 & 17 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



DBT, DOT AND TRI-SUBSTITUTED ORGANOSTANNIC COMPOUND (EUROPEAN REGULATION (EC) NO. 1907/2006 REACH ANNEX XVII, ITEM NO. 20 (4, 5 & 6))

Method : In house test method (ICP screening / GC-MS analysis)

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	2+3+4	9	
Tripopyltn(TPT)	2279-76-7	%	0.02	ND	ND	ND	0.02
Tributyltin (TBT)	1461-22-9	%	0.02	ND	ND	ND	0.02
Trioctyl tin(TOT)	2587-76-0	%	0.02	ND	ND	ND	0.02
Triphenyltin (TPhT)	668-34-8	%	0.02	ND	ND	ND	0.02
Tricyclohexyltin(TcyT)	-	%	0.02	ND	ND	ND	0.02
DBT	14488-53-0	%	0.1	ND	ND	ND	0.1
DOT	3542 -36-7	%	0.1	ND	ND	ND	0.1
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				10+11	12+13+14	15+16	
Tripopyltn(TPT)	2279-76-7	%	0.02	ND	ND	ND	0.02
Tributyltin (TBT)	1461-22-9	%	0.02	ND	ND	ND	0.02
Trioctyl tin(TOT)	2587-76-0	%	0.02	ND	ND	ND	0.02
Triphenyltin (TPhT)	668-34-8	%	0.02	ND	ND	ND	0.02
Tricyclohexyltin(TcyT)	-	%	0.02	ND	ND	ND	0.02
DBT	14488-53-0	%	0.1	ND	ND	ND	0.1
DOT	3542 -36-7	%	0.1	ND	ND	ND	0.1
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				17	18	19	
Tripopyltn(TPT)	2279-76-7	%	0.02	ND	ND	ND	0.02
Tributyltin (TBT)	1461-22-9	%	0.02	ND	ND	ND	0.02
Trioctyl tin(TOT)	2587-76-0	%	0.02	ND	ND	ND	0.02
Triphenyltin (TPhT)	668-34-8	%	0.02	ND	ND	ND	0.02
Tricyclohexyltin(TcyT)	-	%	0.02	ND	ND	ND	0.02
DBT	14488-53-0	%	0.1	ND	ND	ND	0.1
DOT	3542 -36-7	%	0.1	ND	ND	ND	0.1
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				20+21	-	-	
Tripopyltn(TPT)	2279-76-7	%	0.02	ND	-	-	0.02
Tributyltin (TBT)	1461-22-9	%	0.02	ND	-	-	0.02
Trioctyl tin(TOT)	2587-76-0	%	0.02	ND	-	-	0.02
Triphenyltin (TPhT)	668-34-8	%	0.02	ND	-	-	0.02
Tricyclohexyltin(TcyT)	-	%	0.02	ND	-	-	0.02



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DBT	14488-53-0	%	0.1	ND	-	-	0.1
DOT	3542 -36-7	%	0.1	ND	-	-	0.1
Conclusion	-	-	-	PASS	-	-	-

Note:

ND = Not Detected

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



TCEP/ TDCPP/ TCPP CONTENT (2009/48/EC(AND ITS AMENDMENTS) ANNEX II, APPENDIX C)

Method : 2009/48/EC and its amendment Appendix C of Annex II / CPSD-AN-00733-MTHD

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				2+3+4	18	19	
TCEP	115-96-8	mg/kg	5	ND	ND	ND	5
TDCPP	13674-87-8	mg/kg	5	ND	ND	ND	5
TCPP	13674-84-5	mg/kg	5	ND	ND	ND	5
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				20+21	-	-	
TCEP	115-96-8	mg/kg	5	ND	-	-	5
TDCPP	13674-87-8	mg/kg	5	ND	-	-	5
TCPP	13674-84-5	mg/kg	5	ND	-	-	5
Conclusion	-	-	-	PASS	-	-	-

Note:

ND = Not Detected

mg/kg = milligrams per kilogram

The above results of test items 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



24 AROMATIC AMINES (AZOCOLOURANTS) CONTENT (EUROPEAN REGULATION (EC) NO. 1907/2006 REACH, ANNEX XVII, ITEM NO. 43, POINTS 1 AND 2; TOGETHER WITH CLIENT'S SPECIFICATION FOR 2,4-DIMETHYLANILINE AND 2,6-DIMETHYLANILINE CONTENT)

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		
Sample ID	Test Method	Detected Amine Number	Concentration (mg/kg (ppm))	Conclusion
2+3+4	I	ND	ND	PASS
18	I	ND	ND	PASS
19	I	ND	ND	PASS
20+21	I	ND	ND	PASS

ND = Not Detected (Detection Limit = 5 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.

<insert per DTS selection when # marked after result>

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

The presence of 4-aminoazobenzene is determined by BS EN ISO 17234-2(2011).

The above results of test items 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.

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



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LIST OF BANNED AMINES		
Specified Amines		
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
23.	2,4-Xylidine	95-68-1
24.	2,6-Xylidine	87-62-7



THE FLAME RETARDANTS OF TETRA-BDE/PENTA-BDE/HEXA-BDE/HEPTA-BDE/DECA-BDE CONTENT (EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EU) 2019/1021 ON PERSISTENT ORGANIC POLLUTANTS (POPS)).

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	2+3+4	9	
Tetrabromodiphenyl ether, (TetraBDE)	-	mg/kg	5	ND	ND	ND	1000
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	mg/kg	5	ND	ND	ND	1000
Hexabromodiphenyl ether, (HexaBDE)	-	mg/kg	5	ND	ND	ND	1000
Heptabromodiphenyl ether, (HeptaBDE)	-	mg/kg	5	ND	ND	ND	1000
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				10+11	12+13+14	15+16	
Tetrabromodiphenyl ether, (TetraBDE)	-	mg/kg	5	ND	ND	ND	1000
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	mg/kg	5	ND	ND	ND	1000
Hexabromodiphenyl ether, (HexaBDE)	-	mg/kg	5	ND	ND	ND	1000
Heptabromodiphenyl ether, (HeptaBDE)	-	mg/kg	5	ND	ND	ND	1000
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				17	18	19	
Tetrabromodiphenyl ether, (TetraBDE)	-	mg/kg	5	ND	ND	ND	1000
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	mg/kg	5	ND	ND	ND	1000
Hexabromodiphenyl ether, (HexaBDE)	-	mg/kg	5	ND	ND	ND	1000
Heptabromodiphenyl ether, (HeptaBDE)	-	mg/kg	5	ND	ND	ND	1000
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				20+21	-	-	
Tetrabromodiphenyl ether, (TetraBDE)	-	mg/kg	5	ND	-	-	1000
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	mg/kg	5	ND	-	-	1000
Hexabromodiphenyl ether, (HexaBDE)	-	mg/kg	5	ND	-	-	1000
Heptabromodiphenyl ether, (HeptaBDE)	-	mg/kg	5	ND	-	-	1000
Conclusion	-	-	-	PASS	-	-	-



Note: ND = Not detected

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



PHENOL (MIGRATION) IN TOY (2009/48/EC (AND ITS AMENDMENTS) ANNEX II, APPENDIX C)

Method : EN 71 Part 10: 2005, Clause 6 and EN 71 Part 11: 2005, Clauses 5.5.1 to 5.5.3 and 5.5.6.

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	9	10	
Phenol	108-95-2	mg/L	0.05	ND	ND	ND	5
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				11	12	13	
Phenol	108-95-2	mg/L	0.05	ND	ND	ND	5
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				14	15	16	
Phenol	108-95-2	mg/L	0.05	ND	ND	ND	5
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				17	-	-	
Phenol	108-95-2	mg/L	0.05	ND	-	-	5
	-	-	-	PASS	-	-	-

Note: ND = Not detected

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16 & 17 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



BISPHENOL A (MIGRATION) IN TOY (2009/48/EC(AND ITS AMENDMENTS) ANNEX II, APPENDIX C)

Method : EN 71 Part 10: 2005, Clause 6 and EN 71 Part 11: 2005, Clauses 5.5.1 to 5.5.3 and 5.5.6.

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				1	9	10	
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	mg/L	0.005	ND	ND	ND	0.04
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				11	12	13	
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	mg/L	0.005	ND	ND	ND	0.04
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				14	15	16	
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	mg/L	0.005	ND	ND	ND	0.04
	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				17	-	-	
4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	mg/L	0.005	ND	-	-	0.04
	-	-	-	PASS	-	-	-

Note: ND = Not detected

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16 & 17 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



FORMALDEHYDE MIGRATION IN POLYMERIC TOY MATERIAL (2009/48/EC AND ITS AMENDMENT DIRECTIVE EU 2019/2022, APPENDIX C OF ANNEX II)

Method : European Standard EN 71 Part 10: 2005, Section 6 and European Standard EN 71 Part 11: 2005, Section 5.5.3.

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				2+4+5	9	10	
Formaldehyde	50-00-0	mg/L	1.5	ND	ND	ND	1.5
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				11	12	13	
Formaldehyde	50-00-0	mg/L	1.5	ND	ND	ND	1.5
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				14	15	16	
Formaldehyde	50-00-0	mg/L	1.5	ND	ND	ND	1.5
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				17	-	-	
Formaldehyde	50-00-0	mg/L	1.5	ND	-	-	1.5
Conclusion	-	-	-	PASS	-	-	-

Note:

ND = Not Detected

mg/L = milligram per liter

The above results of test items 9, 10, 11, 12, 13, 14, 15, 16 & 17 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



FORMALDEHYDE CONTENT IN TEXTILES (CLIENT'S SPECIFICATIONS)

Method : ISO 14184-1: 2011, Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method).

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				2+4+5	18	19	
Formaldehyde	50-00-0	mg/kg	16	ND	ND	ND	20
Conclusion	-	-	-	PASS	PASS	PASS	-

Parameter	CAS No.	Unit	Detection Limit	Result			Limit
				20	21	-	
Formaldehyde	50-00-0	mg/kg	16	ND	ND	-	20
Conclusion	-	-	-	PASS	PASS	-	-

Note:
 ND = Not Detected mg/kg = milligrams per kilogram
 The above results of test items 18, 19, 20 & 21 were copied from BV test report (6625)111-0945, dated: Jul 29, 2025.



COLOUR FASTNESS TO PERSPIRATION: ISO 105 E04

Sample	Colour Change	Colour staining							Conclusion
		Acetate	Cotton	Nylon	Polyester	Acrylic	Wool		
Black Fabric	Acid	4-5	5	5	5	5	5	PASS	
	Alkaline	4-5	5	5	5	5	5		
	Alkaline	4-5	5	5	5	5	5		

Note:

Explanation of Colorfastness Results:

- Grade 5 Negligible or no staining
- Grade 4 Slightly changed or stained
- Grade 3 Noticeably changed or stained
- Grade 2 Considerably changed or stained
- Grade 1 Much changed or heavily stained

COLOUR FASTNESS TO SALIVA: DIN 53160-1 -2002

Sample	Colour Change	Colour staining						Conclusion
		Acetate	Cotton	Nylon	Polyester	Acrylic	Wool	
Black Fabric	4-5	5	5	5	5	5	5	PASS

Note:

Explanation of Colorfastness Results:

- Grade 5 Negligible or no staining
- Grade 4 Slightly changed or stained
- Grade 3 Noticeably changed or stained
- Grade 2 Considerably changed or stained
- Grade 1 Much changed or heavily stained

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EXHIBIT# 5





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EXHIBIT# 9





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EXHIBIT# 10





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EXHIBIT# 11





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EXHIBIT# 15





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EXHIBIT# 16



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