

Report No.: **158304885a 001**

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Client: DEPESCHE VERTRIEB GMBH & CO. KG

Contact Information: Vierlander Strasse 14, 21502 Geesthacht, Germany

Test item(s): Toys

**Identification/
Model No(s):** SNUKIS Plush Lamb 25cm, SNUKIS Plush Leopard 25cm, SNUKIS Plush
Piglet 25cm, SNUKIS Plush Dog 25cm
Item no: 13519/A, 13520/A, 13521/A, 13522/A
Order no: A

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2025-02-13, 2025-03-03

Testing Period: 2025-02-18 to 2025-03-06

Place of testing: Chemical laboratory Hong Kong, Toys laboratory Hong Kong

Test Specification:

Please refer to "Test Result Summary List" on page 2 for details

Other information:

Country of Destination: Germany

The provided age grade of the item(s) : Not Provided

The appropriate age grade of the item(s) : For all ages.

The item(s) was/ were tested for all ages.

Packaging provided: Yes

The selection of the tested materials and parameters is based on testing experience according to the principles of proportionally considering technological probabilities. The analyses are focused on expected harmful substances caused by nature of materials and production conditions.

**For and on behalf of
TÜV Rheinland Hong Kong Ltd.**



Amenda Yung/
Senior CS Manager

2025-03-11

Date

Name/Position



Wong Yiu Tong , Tommy/
Senior Lab Manager

2025-03-11

Date

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

Test Result Summary :

Test Specification:

Test result:

1 EN 71-1:2014+A1:2018 Mechanical and physical properties	PASS
2 2009/48/EC CE marking	PASS
3 2009/48/EC Labeling Requirement (Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)	Refer to result page
4 EN 71-2:2020 Flammability	PASS
5 EN 71-3:2019+A1:2021 Migration of 19 Elements	PASS
6 EN 71 - 9 : 2005 + A1 : 2007; EN 71 - 10 and - 11 : 2005 Table 2A Flame Retardants	PASS
7 EN 71 - 9 : 2005 + A1 : 2007; EN 71 - 10 and - 11 : 2005 Table 2B Colorants	PASS
8 EN 71 - 9 : 2005 + A1 : 2007; EN 71 - 10 and - 11 : 2005 Table 2C Primary Aromatic Amines	PASS
9 EN 71-9 : 2005 / A1 : 2007; EN 71-10 and 11 : 2005 Cl. 4.3.1 Formaldehyde (EN ISO 14184-1)	PASS
Formaldehyde content by ISO 14184-1 - Commission Directives (EU) 2019/1929, amendment of Directive 2009/48/EC	
10 Banned azo dyes in accordance to REACH regulation (EC) No. 1907/2006 and amendment no. 552/2009 Annex XVII Item 43 (formerly known as 2002/61/EC)	PASS
Aniline content according to the requirement of Appendix C of Annex II to Directive 2009/48/EC with amendment Commission Directive (EU) 2021/903	
11 Allergizing Disperse Dyes, according to Federal Institute for Risk Assessment (BfR) (Information No. 041/2012, 6 July 2012)	PASS
12 Total Cadmium Content - according to REACH regulation (EC) No. 1907/2006 Annex XVII Entry 23 and its amendments	PASS
Depesche requirement:	
Total Lead Content - REACH Regulation (EC) No. 1907/2006 Annex XVII Entry 63 and its amendments	PASS
13 Depesche requirement:	PASS
Total Lead Content	
14 Depesche requirement:	PASS
Odour, qualitative	
15 Packaging Waste Total Heavy Metal Content - 94/62/EC	PASS
16 Polycyclic aromatic hydrocarbons (PAHs) - REACH regulation (EC) No. 1907/2006 with Amendment No. 552/2009 Annex XVII Item No. 50 and (EU) No.1272/2013	PASS
17 Polycyclic aromatic hydrocarbons (PAHs) - according to GS Specification - AfPS GS 2019:01 PAK	PASS

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18 Depesche requirement: Phthalates	PASS
19 The Toys (Safety) Regulations 2011 of UK, UKCA mark	Refer to result page
20 The Toys (Safety) Regulations 2011 of UK, labelling requirements	Refer to result page
21 Risk Assessment of Articles: Screening of substances of very high concern (SVHC) subject to the candidate list by European Chemical Agency (ECHA) according to Regulation (EC) No 1907/2006 and its amendments	SVHC concentration(s) ≤ 0.1%

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Material List:

Item: SNUKIS Plush Lamb 25cm, SNUKIS Plush Leopard 25cm, SNUKIS Plush Piglet 25cm, SNUKIS Plush Dog 25cm

Item no: 13519/A, 13520/A, 13521/A, 13522/A

Order no: A

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	[#SuSe]-Whole product;[#Tommy]-Whole product;[#Rosy]-Whole product;[#Bello]-Whole product
M002	Plastic	Transparent	[#SuSe]-Eyes;[#Tommy]-Eyes;[#Rosy]-Eyes;[#Bello]-Eyes
M003	Textile	Beige	[#SuSe]-Body/ feet/ tail/ ears
M004	Textile	Dull beige	[#SuSe]-Hair/ tip of tail
M005	Textile	Deep pink	[#SuSe]-Ears
M006	Textile + printing	Bright white + black	[#SuSe]-Sewn in label;[#Tommy]-Sewn in label;[#Rosy]-Sewn in label;[#Bello]-Sewn in label
M007	Felt	Black	[#SuSe]-Eyelash;[#Tommy]-Eyelash;[#Rosy]-Eyelash;[#Bello]-Eyelash
M008	Textile + printing	Light yellow + deep brown	[#Tommy]-Body/ feet/ tail/ ears
M009	Textile	Flesh	[#Tommy]-Muzzle
M010	Textile	Black	[#Tommy]-Nose;[#Bello]-Nose
M011	Textile	Grey	[#Rosy]-Body/ tail/ feet/ ears
M012	Textile	Light brown	[#Bello]-Body/ feet/ tail/ ears
M013	Embroidery	Black embroidery thread with fabric backing	[#SuSe]-Mouth/ nostril;[#Tommy]-Mouth;[#Rosy]-Nostril;[#Bello]-Mouth
M014	Plastic	Transparent	[#SuSe]-Packaging material-Cable tie;[#Tommy]-Packaging material-Cable tie;[#Rosy]-Packaging material-Cable tie;[#Bello]-Packaging material-Cable tie
M015	Plastic + printing + paper	Clear + Multicolor + white	[#SuSe]-Packaging material-Hang tag;[#Tommy]-Packaging material-Hang tag;[#Rosy]-Packaging material-Hang tag;[#Bello]-Packaging material-Hang tag
M016	Paper + printing + adhesive	White + black	[#SuSe]-Packaging material-Barcode;[#Tommy]-Packaging material-Barcode;[#Rosy]-Packaging material-Barcode;[#Bello]-Packaging material-Barcode

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M017	Plastic	Translucent	[#SuSe]-Inner beads;[#Tommy]-Inner beads;[#Rosy]-Inner beads;[#Bello]-Inner beads
M018	Plastic	Beige	[#SuSe]-Eyes holder;[#Tommy]-Eyes holder;[#Rosy]-Eyes holder;[#Bello]-Eyes holder
M019	Plastic	Black	[#SuSe]-Eyeballs;[#Tommy]-Eyeballs;[#Rosy]-Eyeballs;[#Bello]-Eyeballs
M020	Plastic + Textile	White + white	[#Rosy]-Elastic band of tail
M021	Plastic + Textile	Brown + white w/ adhesive	[#SuSe]-Ring of eyes;[#Bello]-Ring of eyes
M022	Plastic + Textile	Silvery + white w/ adhesive	[#Rosy]-Ring of eyes
M023	Plastic + Textile	Purple + beige	[#Tommy]-Ring of eyes
M024	Felt	Dull white w/ adhesive	[#SuSe]-Ring of eyes;[#Tommy]-Ring of eyes;[#Rosy]-Ring of eyes;[#Bello]-Ring of eyes
M025	Textile	Dull white	[#SuSe]-Bag of inner beads;[#Tommy]-Bag of inner beads;[#Rosy]-Bag of inner beads;[#Bello]-Bag of inner beads
M026	Textile	Matt white	[#SuSe]-Inner trimming;[#Tommy]-Inner trimming;[#Rosy]-Inner trimming;[#Bello]-Inner trimming
M027	Textile	Off white	[#Tommy]-Backing of nose;[#Bello]-Backing of nose
M028	Synthetic fibre	White	[#SuSe]-Stuffing;[#Tommy]-Stuffing;[#Rosy]-Stuffing;[#Bello]-Stuffing

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1. EN 71-1:2014+A1:2018 Mechanical and physical properties

Test No:	T001
Material No:	M001
4. General requirements	
4.1 Material cleanliness	PASS
4.7 Edges	PASS
4.8 Points and metallic wires	PASS
5. Toys intended for children under 36 months	
5.1 General requirements	PASS
5.2 Soft-filled toys and soft-filled parts of a toy	PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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2. 2009/48/EC CE Marking**Test result:**

Test No:	T001
Material No:	M001
CE-marking	PASS

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3. 2009/48/EC Labeling Requirement (Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)**Test result:**

Test No:	T001
Material No:	M001
Importer/ Manufacturer Mark (European Company name and address)+	Present
Product Identification - type, batch, serial or model number+	Present
Washing/ Cleaning instruction ^	Present

Remark:

- * According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.
- + These labeling shall be indicated on the toy, or where that is not possible, on its packaging or in documents accompanying the toys.

The correct adherence to all requirements according to directive 2009/48/EC in regards to the marking (name or trademark and contact address of the manufacturer respectively the marking for identification [type, batch, model or serial no.]) of the toy can only be confirmed by the manufacturer, his delegate or the person who brings it onto the market. The marked article were assessed, however, they can not be evaluated in the frame of this test.

- ^ According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy shall, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions.

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4. EN 71-2:2020 Flammability**Test result:**

Test No:	T001
Material No:	M001
4.1 General requirements	PASS
4.5 Soft-filled toys	PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

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5. EN 71-3:2019+A1:2021 Migration of 19 Elements

Test Method: with reference to EN 71-3:2019+A1:2021, analyzed by ICP-OES / ICP-MS / LC-ICP-MS/IC-UV/GC-MS.

3) For scraped-off toy materials:
Test Result:

Test No.				T001	T002	T003
Material No.				M002	M003	M004
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	2.8
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin^	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

Abbreviation:

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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Test Result:

Test No.				T004	T005	T006
Material No.				M005	M006	M007
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	7	26
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin [^]	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

Abbreviation:

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- [^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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Test Result:

Test No.				T007	T008	T009
Material No.				M008	M009	M010
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	11	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin^	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	90
Mass of trace amount	mg	--	--	-	-	-

Abbreviation:

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- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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Test Result:

Test No.				T010	T011	T012
Material No.				M011	M012	M013
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin [^]	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

Abbreviation:

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- [^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

Remark:

- * Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019+A1:2021 / BS EN 71-3:2019+A1:2021, cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.
- ** For any test portion containing grease, oil, wax or similar material, such materials would have been removed with isooctane by using Soxhlet extraction.
- **** The highlighted result was found to be more than the maximum permissible limit.
- ***** According to EN 71-3:2019+A1:2021, if the weight of a test portion of toy material is less than 10mg, the analysis of migration of certain elements would not be required. If the weight of a test portion of toy material is between 10mg and 100mg, the analytical results would be calculated as though 100mg of the test portion had been used.

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6. EN 71 - 9 : 2005 + A1 : 2007; EN 71 - 10 and - 11 : 2005 Table 2A Flame Retardants

Test Method: EN 71-10 and -11:2005 for Table 2A Flame Retardants

Test result

Test No.					T001	T002
Material No.					M003 + M004 + M005	M009 + M011 + M012
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result
Tri-o-cresyl phosphate	78-30-8	mg/kg	5	50 (Action Limit)	< RL	< RL
Tris-(2-chloroethyl)-phosphate	115-96-8	mg/kg	5	50 (Action Limit)	< RL	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 NA = Not Applicable

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7.EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 Table 2B Colourants

Test Method: EN 71-10 and -11:2005 for Table 2B Colourants

Test Result:

Test No.					T001	T002
Material No.					M003	M011
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result
Disperse Blue 1	2475-45-8	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Blue 3	2475-46-9	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Blue 106	12223-01-7	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Blue 124	61951-51-7	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Orange 3	730-40-5	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Orange 37/76	12223-33-5/ 13301-61-6	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Yellow 3	2832-40-8	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Red 1	2872-52-8	mg/kg	10	10 (Action Limit)	< RL	< RL
Solvent Yellow 1	60-09-3	mg/kg	10	10 (Action Limit)	< RL	< RL
Solvent Yellow 2	60-11-7	mg/kg	10	10 (Action Limit)	< RL	< RL
Solvent Yellow 3	97-56-3	mg/kg	10	10 (Action Limit)	< RL	< RL
Basic Red 9	569-61-9	mg/kg	10	10 (Action Limit)	< RL	< RL
Basic Violet 1	8004-87-3	mg/kg	10	10 (Action Limit)	< RL	< RL
Basic Violet 3	548-62-9	mg/kg	10	10 (Action Limit)	< RL	< RL
Acid Red 26	3761-53-3	mg/kg	10	10 (Action Limit)	< RL	< RL
Acid Violet 49	1694-09-3	mg/kg	10	10 (Action Limit)	< RL	< RL
Disperse Blue 35*	12222-75-2	mg/kg	10	10 (Action Limit)	< RL	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 NA = Not Applicable

Remark:

- * According to the BfR-recommendations (Bundesinstitut für Risikobewertung), Disperse blue 35 is analysed additionally.

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8.EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 Table 2C Primary Aromatic Amines

Test Method: EN 71-10 and -11:2005 for Table 2C Primary Aromatic Amines

Test Result:

Test No.					T001	T002
Material No.					M003 + M004 + M005	M009 + M011 + M012
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result
Benzidine	92-87-5	mg/kg	1	5 (Action Limit)	< RL	< RL
2-Naphthylamine	91-59-8	mg/kg	1	5 (Action Limit)	< RL	< RL
4-Chloroaniline	106-47-8	mg/kg	1	5 (Action Limit)	< RL	< RL
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1	5 (Action Limit)	< RL	< RL
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	1	5 (Action Limit)	< RL	< RL
3,3'-Dimethylbenzidine	119-93-7	mg/kg	1	5 (Action Limit)	< RL	< RL
o-Toluidine	95-53-4	mg/kg	1	5 (Action Limit)	< RL	< RL
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	1	5 (Action Limit)	< RL	< RL
Aniline	62-53-3	mg/kg	1	5 (Action Limit)	< RL	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 NA = Not Applicable

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9. Formaldehyde (EN ISO 14184-1)

Test Method: EN ISO 14184-1:2011

Test Result:

Test No.	Material No.	Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Weight of sample (g)	Test Result
T001	M003 + M004 + M005	Formaldehyde content	50-00-0	mg/kg	10	30	1.0037	< RL
T002	M006 + M007	Formaldehyde content	50-00-0	mg/kg	10	30	1.0092	< RL
T003	M008 + M009	Formaldehyde content	50-00-0	mg/kg	10	30	1.0082	< RL
T004	M010 + M011 + M012	Formaldehyde content	50-00-0	mg/kg	10	30	1.0044	< RL
T005	M013	Formaldehyde content	50-00-0	mg/kg	10	30	1.0024	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 g = gram

Remark:

- * The sample was packed in polyethylene bag and wrapped by aluminum foil prior to test.
- ** The range of the calibration graph: 0.1 µg CH₂O/ml to 6 µg CH₂O/ml.
- ***. One test is performed for each material.
- **** The requirement is following Appendix C of Annex II to Directive 2009/48/EC with Commission Directive amendment (EU) 2019/1929, formaldehyde content shall not exceed 30 mg/kg in textile toy material of toys intended for use by children under 36 months or in other toys intended to be placed in the mouth adopted in accordance with Article 46(2). Effective from 21 May 2021.
- *1 According to EN 71-9:2005+A1:2007 Clause 4.3.1, accessible textile components of toys intended for children under 3 years of age shall not contain free and hydrolyzed formaldehyde in excess of 30 mg/kg when tested in accordance with EN ISO 14184-1.

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10. Banned azo dyes

Test Method: Method 1 - EN ISO 14362-1:2017 (Textiles) (Buffer extraction)
 Method 2 - EN ISO 14362-1:2017 (Textiles) (Xylene extraction)
 Method 3 - ISO 17234-1:2020 (Leather)
 Method 4 - EN ISO 14362-3:2017 (Textile, 4-aminoazobenzene confirmation)
 Method 5 - ISO 17234-2:2011 (Leather, 4-aminoazobenzene confirmation)

Test Results:

		Material No.				M003 + M004 + M005		M007	
		Test No.				T001-1	T001-2	T002-1(*3)	T002-2(*3)
		Method No.				Method 1	Method 2	Method 1	Method 2
		A22 Confirmation Method No.				4	4	-	-
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
A1	4-Aminobiphenyl	92-67-1	mg/kg	5	30	< RL	< RL	-	-
A2	Benzidine	92-87-5	mg/kg	5	30	< RL	< RL	-	-
A3	4-Chloro-o-toluidine	95-69-2	mg/kg	5	30	< RL	< RL	-	-
A4	2-Naphthylamine	91-59-8	mg/kg	5	30	< RL	< RL	-	-
A5*	o-Aminoazotoluene	97-56-3	mg/kg	5	30	< RL	< RL	-	-
A6*	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	30	< RL	< RL	-	-
A7	4-Chloroaniline	106-47-8	mg/kg	5	30	< RL	< RL	-	-
A8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	30	< RL	< RL	-	-
A9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	30	< RL	< RL	-	-
A10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	30	< RL	< RL	-	-
A11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	30	< RL	< RL	-	-
A12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	30	< RL	< RL	-	-
A13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	30	< RL	< RL	-	-
A14	p-Cresidine	120-71-8	mg/kg	5	30	< RL	< RL	-	-
A15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	30	< RL	< RL	-	-
A16	4,4'-Oxydianiline	101-80-4	mg/kg	5	30	< RL	< RL	-	-
A17	4,4'-Thiodianiline	139-65-1	mg/kg	5	30	< RL	< RL	-	-
A18	o-Toluidine	95-53-4	mg/kg	5	30	< RL	< RL	-	-
A19	4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	5	30	< RL	< RL	-	-
A20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	< RL	< RL	-	-
A21	O-Anisidine	90-04-0	mg/kg	5	30	< RL	< RL	-	-
A22**	4-Aminoazobenzene	60-09-3	mg/kg	5	30	< RL	< RL	-	-
A25^	Aniline	62-53-3	mg/kg	5	--	< RL	< RL	-	-

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		Material No.				M008 + M009		M011 + M012	
		Test No.				T003-1	T003-2	T004-1	T004-2
		Method No.				Method 1	Method 2	Method 1	Method 2
		A22 Confirmation Method No.				4	4	4	4
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
A1	4-Aminobiphenyl	92-67-1	mg/kg	5	30	< RL	< RL	< RL	< RL
A2	Benzidine	92-87-5	mg/kg	5	30	< RL	< RL	< RL	< RL
A3	4-Chloro-o-toluidine	95-69-2	mg/kg	5	30	< RL	< RL	< RL	< RL
A4	2-Naphthylamine	91-59-8	mg/kg	5	30	< RL	< RL	< RL	< RL
A5*	o-Aminoazotoluene	97-56-3	mg/kg	5	30	< RL	< RL	< RL	< RL
A6*	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	30	< RL	< RL	< RL	< RL
A7	4-Chloroaniline	106-47-8	mg/kg	5	30	< RL	< RL	< RL	< RL
A8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	30	< RL	< RL	< RL	< RL
A9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	30	< RL	< RL	< RL	< RL
A10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	30	< RL	< RL	< RL	< RL
A11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	30	< RL	< RL	< RL	< RL
A12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	30	< RL	< RL	< RL	< RL
A13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	30	< RL	< RL	< RL	< RL
A14	p-Cresidine	120-71-8	mg/kg	5	30	< RL	< RL	< RL	< RL
A15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	30	< RL	< RL	< RL	< RL
A16	4,4'-Oxydianiline	101-80-4	mg/kg	5	30	< RL	< RL	< RL	< RL
A17	4,4'-Thiodianiline	139-65-1	mg/kg	5	30	< RL	< RL	< RL	< RL
A18	o-Toluidine	95-53-4	mg/kg	5	30	< RL	< RL	< RL	< RL
A19	4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	5	30	< RL	< RL	< RL	< RL
A20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	< RL	< RL	< RL	< RL
A21	O-Anisidine	90-04-0	mg/kg	5	30	< RL	< RL	< RL	< RL
A22**	4-Aminoazobenzene	60-09-3	mg/kg	5	30	< RL	< RL	< RL	< RL
A25^	Aniline	62-53-3	mg/kg	5	--	< RL	< RL	< RL	< RL

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		Material No.				M013		M006	
		Test No.				T005-1(*3)	T005-2(*3)	T006-1(*3)	T006-2(*3)
		Method No.				Method 1	Method 2	Method 1	Method 2
		A22 Confirmation Method No.				-	-	-	-
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
A1	4-Aminobiphenyl	92-67-1	mg/kg	5	30	-	-	-	-
A2	Benzidine	92-87-5	mg/kg	5	30	-	-	-	-
A3	4-Chloro-o-toluidine	95-69-2	mg/kg	5	30	-	-	-	-
A4	2-Naphthylamine	91-59-8	mg/kg	5	30	-	-	-	-
A5*	o-Aminoazotoluene	97-56-3	mg/kg	5	30	-	-	-	-
A6*	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	30	-	-	-	-
A7	4-Chloroaniline	106-47-8	mg/kg	5	30	-	-	-	-
A8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	30	-	-	-	-
A9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	30	-	-	-	-
A10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	30	-	-	-	-
A11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	30	-	-	-	-
A12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	30	-	-	-	-
A13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	30	-	-	-	-
A14	p-Cresidine	120-71-8	mg/kg	5	30	-	-	-	-
A15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	30	-	-	-	-
A16	4,4'-Oxydianiline	101-80-4	mg/kg	5	30	-	-	-	-
A17	4,4'-Thiodianiline	139-65-1	mg/kg	5	30	-	-	-	-
A18	o-Toluidine	95-53-4	mg/kg	5	30	-	-	-	-
A19	4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	5	30	-	-	-	-
A20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	-	-	-	-
A21	O-Anisidine	90-04-0	mg/kg	5	30	-	-	-	-
A22**	4-Aminoazobenzene	60-09-3	mg/kg	5	30	-	-	-	-
A25^	Aniline	62-53-3	mg/kg	5	--	-	-	-	-

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		Material No.				M010	
		Test No.				T007-1(*3)	T007-2(*3)
		Method No.				Method 1	Method 2
		A22 Confirmation Method No.				-	-
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	Result
A1	4-Aminobiphenyl	92-67-1	mg/kg	5	30	-	-
A2	Benzidine	92-87-5	mg/kg	5	30	-	-
A3	4-Chloro-o-toluidine	95-69-2	mg/kg	5	30	-	-
A4	2-Naphthylamine	91-59-8	mg/kg	5	30	-	-
A5*	o-Aminoazotoluene	97-56-3	mg/kg	5	30	-	-
A6*	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	30	-	-
A7	4-Chloroaniline	106-47-8	mg/kg	5	30	-	-
A8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	30	-	-
A9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	30	-	-
A10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	30	-	-
A11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	30	-	-
A12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	30	-	-
A13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	30	-	-
A14	p-Cresidine	120-71-8	mg/kg	5	30	-	-
A15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	30	-	-
A16	4,4'-Oxydianiline	101-80-4	mg/kg	5	30	-	-
A17	4,4'-Thiodianiline	139-65-1	mg/kg	5	30	-	-
A18	o-Toluidine	95-53-4	mg/kg	5	30	-	-
A19	4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	5	30	-	-
A20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	-	-
A21	O-Anisidine	90-04-0	mg/kg	5	30	-	-
A22**	4-Aminoazobenzene	60-09-3	mg/kg	5	30	-	-
A25^	Aniline	62-53-3	mg/kg	5	--	-	-

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

Remark:

- * The CAS-number 97-56-3 (A5) and 99-55-8 (A6) are further reduced to CAS-number 95-53-4 (A18) and 95-80-7 (A19).
- ** Azo colorants that are able to form 4-aminoazobenzene (A22) CAS-number 60-09-3, generate under the condition of this method Aniline (CAS-number 62-53-3) and 1,4-phenylenediamine (CAS-number 106-50-3.)
- *** Azo colorants that are able to form 4-aminoazobenzene (A22), is confirmed by EN ISO 14362-3:2017 / ISO 17234-2:2011.
- **** Azo colorants are detected & quantified by GC/MS and confirmed by HPLC/DAD or HPLC/MSMS.
- *1 According to REACH regulation (EC) No. 1907/2006 and its amendment no. 552/2009 and (EU) 2020/2096 Annex XVII Entry 43, azodyes which, by reductive cleavage of one or more azo groups, may release one or more of A1 - A22, in concentrations above 30 mg/kg (0,003 % by weight) in the articles or in the dyed parts thereof shall not be used, in textile and leather articles which may come into direct and prolonged contact with the human skin or oral cavity.

According to REACH regulation (EC) No. 1907/2006 and its amendments Annex XVII Entry 72, the maximum permissible limit is 30 mg/kg for each of B3, B4, B8 and B20.

B3 is tested and calculated in terms of 4-chloro-o-toluidine (A3).
B4 is tested and calculated in terms of 2-Naphthylamine (A4).
B8 is tested and calculated in terms of 4-Methoxy-m-phenylenediamine (A8).
B20 is tested and calculated in terms of 2,4,5-Trimethylaniline (A20).
- *2 Detection of Arylamine salts as the amine and tested with the Azo method. Regardless of the origin of the aromatic amine, if the value exceeds 30 mg/kg, it will be a fail result.
- *3 The weight of test portion available was less than 0.2g, the test for azo dyes was not performed.

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11. Allergizing Disperse Dyes

Test Method: DIN 54231: 2005

Test Results:

Parameter	Material No.			M003 + M004 + M005	M006 + M007	M008 + M009
	Test No.			T001	T002	T003
Parameter	CAS NO	Unit	RL	Result	Result	Result
Disperse Blue 1	2475-45-8	mg/kg	15	< RL	< RL	< RL
Disperse Blue 35	12222-75-2	mg/kg	15	< RL	< RL	< RL
Disperse Blue 106	12223-01-7	mg/kg	15	< RL	< RL	< RL
Disperse Blue 124	61951-51-7	mg/kg	15	< RL	< RL	< RL
Disperse Orange 3	730-40-5	mg/kg	15	< RL	< RL	< RL
Disperse Orange 37/76/59	12223-33-5/ 13301-61-6/ 51811-42-8	mg/kg	15	< RL	< RL	< RL
Disperse Red 1	2872-52-8	mg/kg	15	< RL	< RL	< RL
Disperse Yellow 3	2832-40-8	mg/kg	15	< RL	< RL	< RL

Parameter	Material No.			M010 + M011 + M012	M013
	Test No.			T004	T005
Parameter	CAS NO	Unit	RL	Result	Result
Disperse Blue 1	2475-45-8	mg/kg	15	< RL	< RL
Disperse Blue 35	12222-75-2	mg/kg	15	< RL	< RL
Disperse Blue 106	12223-01-7	mg/kg	15	< RL	< RL
Disperse Blue 124	61951-51-7	mg/kg	15	< RL	< RL
Disperse Orange 3	730-40-5	mg/kg	15	< RL	< RL
Disperse Orange 37/76/59	12223-33-5/ 13301-61-6/ 51811-42-8	mg/kg	15	< RL	< RL
Disperse Red 1	2872-52-8	mg/kg	15	< RL	< RL
Disperse Yellow 3	2832-40-8	mg/kg	15	< RL	< RL

Abbreviation: <=Less than
 RL=Reporting Limit
 mg/kg=milligram per kilogram

Remark:

- *1 According to Federal Institute for Risk Assessment (BfR) (Information No. 041/2012, 6 July 2012), below listed potentially sensitising dyes should no longer be used in textiles.
 Disperse Blue 1, Disperse Blue 35, Disperse Blue 106, Disperse Blue 124, Disperse Orange 3, Disperse Orange 37/76/59, Disperse Red 1, Disperse Yellow 3
 According to DIN 54231:2022, the usage of a dyestuff is proved if a content of more than 50 mg/kg is determined in the extract.

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12.Total Lead and Cadmium Content

Test Method: Acid digestion, analyzed by ICP-OES

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Test Result
T001	M002	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T002	M017 + M018 + M019	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T003	M020	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T004	M021 + M022	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T005	M023	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T006	M024	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram
 1% = 10000 mg/kg

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Remark:

- * Requirements for Cadmium content according to Annex XVII Entry 23 of Regulation (EC) No 1907/2006 (REACH) and its amendments
- Mixtures and articles produced from plastic material < 0.01 % (100 mg/kg)
 - Coated / painted articles < 0.1 % (1000 mg/kg)
 - Jewellery components < 0.01 % (100 mg/kg)
 - Paints and varnishes (excluding the applicable exemptions) < 0.01 % (100 mg/kg)
- Swiss requirements for cadmium content according to the Switzerland Chemikalien-Risikoreduktions-Verordnung- ChemRRV, 814.81
- Mixtures and articles produced from plastic material < 0.01 % (100 mg/kg)
 - Articles / objects treated with paints / coating with cadmium is prohibited
 - Paints and varnishes < 0.01 % (100 mg/kg)
- ** Requirements for Lead content according to Annex XVII Entry 63 of Regulation (EC) No. 1907/2006 (REACH) and its amendments:
- Jewellery, imitation jewellery, hair accessories, bracelets, necklaces , rings, piercing jewellery, wrist watches, wrist-wear, brooches and cufflinks and parts used for jewellery-making < 0.05%
 - Articles supplied to the general public during normal or reasonably foreseeable conditions of use, be placed in the mouth by children < 0.05%. The limit shall not apply where it can be demonstrated that the rate of lead release from such an article or any such accessible part of an article, whether coated or uncoated, does not exceed 0,05 µg/cm² per hour (equivalent to 0,05 µg/g/h), and, for coated articles, that the coating is sufficient to ensure that this release rate is not exceeded for a period of at least two years of normal or reasonably foreseeable conditions of use of the article.

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13.Total Lead

Test Method: Acid digestion, analyzed by ICP-OES / AAS

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Customer's Requirement	Test Result
T001	M002	Lead Content	mg/kg	10	100	< RL
T002	M017 + M018 + M019	Lead Content	mg/kg	10	100	< RL
T003	M020	Lead Content	mg/kg	10	100	< RL
T004	M021 + M022	Lead Content	mg/kg	10	100	< RL
T005	M023	Lead Content	mg/kg	10	100	< RL
T006	M024	Lead Content	mg/kg	10	100	< RL

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram

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14.Odour, qualitative

Test Method: Ref. to SNV 195 651: 1968

Test Result:

Test No.	Material No.	Test Parameter	Customer's Requirement	Test Result
T001	M001	Odour, qualitative	2 (qualitative)	1

Evaluation scheme (in deviation from product specific odour):

1 = odourless

2 = weak

3 = bearable

4 = intense/annoying

5 = unbearable

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15.Packaging Waste Total Heavy Metal Content - 94/62/EC

Test Method: Sample digestion, analyzed by ICP-OES / Ultraviolet Visible Spectrophotometer (UV-Vis)

Result:

Test No.	Material No.	Test Parameters	Unit	RL	Regulatory Requirement	Result	Conclusion
T001	M014	Pb	mg/kg	10	-	< RL	-
		Cd	mg/kg	10	-	< RL	-
		Cr (VI)	mg/kg	10	-	< RL	-
		Hg	mg/kg	10	-	< RL	-
		Sum of Pb, Cd, Cr(VI) and Hg	mg/kg	10	100	<RL	Pass
T002	M015	Pb	mg/kg	10	-	< RL	-
		Cd	mg/kg	10	-	< RL	-
		Cr (VI)	mg/kg	10	-	< RL	-
		Hg	mg/kg	10	-	< RL	-
		Sum of Pb, Cd, Cr(VI) and Hg	mg/kg	10	100	<RL	Pass
T003	M016	Pb	mg/kg	10	-	< RL	-
		Cd	mg/kg	10	-	< RL	-
		Cr (VI)	mg/kg	10	-	< RL	-
		Hg	mg/kg	10	-	< RL	-
		Sum of Pb, Cd, Cr(VI) and Hg	mg/kg	10	100	<RL	Pass

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram

Remark:

- ** According to "European Parliament and Council Directive 94/62/EC of 20 December 1994"; the maximum permissible limit of the sum of the concentration of Lead, Cadmium, Mercury and Hexavalent Chromium is 100ppm.
- *** Single element with an amount of less than reporting limit were not considered by the calculation of the sum. In the case of all elements were less than reporting limit, the result is stated < RL.

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16. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: Organic solvent extraction, GCMS

Test No.				T001
Material No.				M002
Test Parameter	CAS NO	Unit	RL	Result
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.2	< RL
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.2	< RL
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.2	< RL
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.2	< RL
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.2	< RL
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.2	< RL
Chrysene (CHR)	218-01-9	mg/kg	0.2	< RL
Dibenzo[a,h]anthracene (DBA _h A)	53-70-3	mg/kg	0.2	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

Remark:

* Requirement according to REACH regulation (EC) No. 1907/2006 with Amendment No. 552/2009 Annex XVII Item No. 50 and (EU) No. 1272/2013, are summarized as below:

Scope	Parameter	Unit	Maximum permissible limit
Articles with direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, made of plastic and rubber shall follow below limit:			
Such articles include 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	Each of 8 listed PAHs	mg/kg	1
Toys, including activity toys, and childcare articles	Each of 8 listed PAHs	mg/kg	0.5

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17. Polycyclic aromatic hydrocarbons (PAHs) according to GS Specification - AfPS GS 2019:01 PAK

Test Method: AfPS GS 2019:01 PAK

Test Result:

Test No.				T001
Material No.				M002
Test Parameter	CAS NO	Unit	RL	Result
Anthracene	120-12-7	mg/kg	0.2	< RL
Benzo[a]anthracene	56-55-3	mg/kg	0.2	< RL
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< RL
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	< RL
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	< RL
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	< RL
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	< RL
Benzo[e]pyrene	192-97-2	mg/kg	0.2	< RL
Chrysene	218-01-9	mg/kg	0.2	< RL
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	< RL
Fluoranthene	206-44-0	mg/kg	0.2	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	< RL
Naphthalene	91-20-3	mg/kg	0.2	0.4
Phenanthrene	85-01-8	mg/kg	0.2	< RL
Pyrene	129-00-0	mg/kg	0.2	< RL
Sum of, Anthracene, Fluoranthene, Phenanthrene, Pyrene	-	mg/kg	0.2	<RL
Sum of 15 PAHs	-	mg/kg	0.2	0.4
Category*	-	--	-	1

Abbreviation: < = less than
 RL = Reporting Limit
 NA = Not Applicable
 mg/kg = milligram per kilogram

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Remark:

- * PAH maximum permissible limits requirement from the GS-Mark Approval published by the German Federal Institute for Occupational Safety and Health (BAuA)

Parameter	Unit	Category 1	Category 2		Category 3	
		Materials intended to be placed into the mouth, or Materials in toys or articles for children up to 3 years of age with intended long-term skin contact (more than 30 s)	Materials that do not fall into Category 1 with intended or foreseeable long-term skin contact (more than 30 s) or repeated short-term skin contact		Materials not covered by category 1 or 2, with foreseeable short term contact (shorter than 30 s)	
		-	Cat. 2a Use by children	Cat. 2b Other consumer products	Cat. 3a Use by children	Cat. 3b Other consumer products
Benzo[a]pyrene(BaP)	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoranthene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Indeno[1,2,3-cd]pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1
Naphthalene	mg/kg	<1	<2	<2	<10	<10
Sum of Anthracene Fluoranthene Phenanthrene Pyrene	mg/kg	<1	<5	<10	<20	<50
Sum of 15 PAHs	mg/kg	<1	<5	<10	<20	<50

Limit: Specific evaluation required according to type of foreseeable use.

The definition of "child" means persons before the age of 14 years. "Use by children" includes both active and passive direct contact by children.

- ** Single components with an amount of <0.2 mg/kg were not considered by the calculation of the sum. In the case of all 15 PAHs were not detected, the result is stated < RL

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18. Phthalates content

Test Method: Ref. to CPSC-CH-C1001-09.4

Test Result:

Test No.				T001	T002	T003
Material No.				M002	M014	M015
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL	<RL	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL	<RL	<RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.01	< RL	< RL	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.01	< RL	< RL	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.01	< RL	< RL	< RL
Diisopentyl phthalate (DiPP)	605-50-5	%	0.01	< RL	< RL	< RL
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.01	< RL	< RL	< RL
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	< RL	< RL	< RL
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS No.: 84-75-3)	68515-51-5 68648-93-1	%	0.01	< RL	< RL	< RL
Conclusion: Customer's requirement				Pass	Pass	Pass

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Test No. Material No.				T004 M017 + M018 + M019	T005 M020	T006 M021 + M022
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL	<RL	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL	<RL	<RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.01	< RL	< RL	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.01	< RL	< RL	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.01	< RL	< RL	< RL
Diisopentyl phthalate (DiPP)	605-50-5	%	0.01	< RL	< RL	< RL
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.01	< RL	< RL	< RL
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	< RL	< RL	< RL
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS No.: 84-75-3)	68515-51-5 68648-93-1	%	0.01	< RL	< RL	< RL
Conclusion: Customer's requirement				Pass	Pass	Pass

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		Test No.		T007	T008
		Material No.		M023	M024
Test Parameter	CAS NO	Unit	RL	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL	<RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.01	< RL	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.01	< RL	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.01	< RL	< RL
Diisopentyl phthalate (DiPP)	605-50-5	%	0.01	< RL	< RL
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.01	< RL	< RL
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	< RL	< RL
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	< RL	< RL
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	< RL	< RL
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS No.: 84-75-3)	68515-51-5 68648-93-1	%	0.01	< RL	< RL
Conclusion: Customer's requirement				Pass	Pass

Abbreviation: < = less than
 RL = Reporting Limit
 % = percentage

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Remark:

- According to customer instruction, the maximum permissible limits of phthalates are as follows:

Parameter	Unit	Maximum Permissible Limit
Sum of Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Diethylhexyl phthalate (DEHP) and Diisobutyl phthalate (DIBP)	%	0.1
Sum of Di-n-octyl phthalate (DNOP), Diisodecyl phthalate (DIDP) and Diisononyl phthalate (DINP)	%	0.1
Di-n-pentyl phthalate (DnPP)	%	0.1
Di-n-hexyl phthalate (DnHP)	%	0.1
Dicyclohexyl phthalate (DCHP)	%	0.1
Diisopentyl phthalate (DiPP)	%	0.1
n-Pentyl-isopentyl phthalate	%	0.1
Di(methoxyethyl) phthalate (DMEP)	%	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	%	0.1
1,2-Benzenedicarboxylic acid, di-C7-11 branched and linear alkyl ester (DHNUP)	%	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	%	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	%	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate	%	0.1

- Single component with an amount below reporting limit was not considered by the calculation of the sum.

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19. The Toys (Safety) Regulations 2011 of UK, UKCA mark**Test result:**

Test No:	T001
Material No:	M001
UKCA-marking	Present

Remark:

- § The assessment was made in accordance to the "Guidance - Using the UKCA mark from 1 January 2021" as published on 1 September, 2020.

20.The Toys (Safety) Regulations 2011 of UK, labelling requirements**Test Result:**

Test No:	T001
Material No:	M001
UK Importer Name and Address	Present

Remark:

According to Toys (Safety) Regulations 2011: Guidance (GB) published by Department for Business, Energy and Industrial Strategy in November 2020, starting from 1 January 2021, importers have legal obligations checking that manufacturers have included their (the importer's) name, registered trade name or mark and a postal address on the toy or on its packaging or in accompanying documentation.

To assist with the transition, the UK is applying a transitional period ending on 31 December 2025 to allow that the details being shown on the accompanying documentation or packaging as an alternative to placing them on the toy.

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21. Screening of Substances of Very High Concern (SVHC) subject to the Candidate List by European Chemical Agency (ECHA) according to Regulation (EC) No 1907/2006 and its amendments.

Obligation of Importer is necessary if the detected SVHC concentration in article level is >0.1%:
 To communicate information down the supply chain according to article. 33 of Regulation(EC) No 1907/2006. OR

1. Notification to ECHA, if the quantities of SVHC in the produced/imported articles are above 1 ton in total per year per company.
2. Provide sufficient information to ensure safe use of the article and, as a minimum, include the name of the substance, to their customers and on request to consumers within 45 days of the receipt of this request.

Test Method: 1) SVOC: organic solvent extraction, determination by GC-MS/ECD
 2) VOC: organic solvent extraction, determination by GC-MS
 3) VVOC: headspace-GC/MS analysis
 4) non-VOC: organic solvent extraction, determination by LC-MS/MS.
 5) inorganics: acid digestion, determination by ICP-OES

Test Result:

Test No.	Material No.	Result (%)
T001	M002 + M014 + M015 + M017 + M018 + M019 + M020 + M021 + M022 + M023	<RL
T002	M003 + M004 + M005 + M006 + M007 + M008 + M009 + M010 + M011 + M012	<RL
T003	M013 + M024 + M025 + M026 + M027 + M028	<RL

Abbreviation: n.d. = not detected (<Reporting Limit)
 RL = Reporting Limit
 % = Percentage

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Remark:

(*1) The reporting limit for each individual SVHC in Candidate List by ECHA:

	Substance	CAS No.	Reporting Limit
1	4,4'- Diaminodiphenylmethane (A9)	101-77-9	0.01%
2	Benzyl butyl phthalate (BBP)	85-68-7	0.01%
3	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.01%
4	Dibutyl phthalate (DBP)	84-74-2	0.01%
5	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified : gamma-hexabromocyclododecane beta-hexabromocyclododecane 1,2,5,6,9,10-hexabromocyclododecane Hexabromocyclododecane alpha-hexabromocyclododecane	134237-52-8 / 134237-51-7 / 3194-55-6 / 25637-99-4 / 134237-50-6	0.01%
6	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.01%
7	2,4-Dinitrotoluene (2,4-DNT)	121-14-2	0.01%
8	Diisobutyl phthalate (DIBP)	84-69-5	0.01%
9	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	0.01%
10	Diarsenic pentaoxide (*2)	1303-28-2	0.01%
11	Diarsenic trioxide (*2)	1327-53-3	0.01%
12	Lead chromate (*2)(*3)	7758-97-6	0.01%
13	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (*2)(*3)	12656-85-8	0.01%
14	Lead sulfochromate yellow (C.I. Pigment Yellow 34) (*2)	1344-37-2	0.01%
15	Trichloroethylene	79-01-6	0.01%
16	Chromium trioxide (*2)	1333-82-0	0.01%
17	Acids generated from chromium trioxide and their oligomers: Names of the acids and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid. (*2)	7738-94-5 / 13530-68-2	0.01%
18	Sodium dichromate (*2)(*3)	7789-12-0 / 10588-01-9	0.01%
19	Potassium dichromate (*2)(*3)	7778-50-9	0.01%
20	Ammonium dichromate (*2)(*3)	7789-09-5	0.01%
21	Potassium chromate (*2)(*3)	7789-00-6	0.01%
22	Sodium chromate (*2)(*3)	7775-11-3	0.01%
23	Formaldehyde, oligomeric reaction products with aniline (technical MDA) (*10)	25214-70-4	0.01%
24	1,2-Dichloroethane (1,2-DCE)	107-06-2	0.01%
25	Bis(2-methoxyethyl) ether (DEGDB)	111-96-6	0.01%
26	Arsenic acid (*2)	7778-39-4	0.01%
27	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	0.01%
28	Dichromium tris(chromate) (*2)(*3)	24613-89-6	0.01%
29	Strontium chromate (*2)(*3)	7789-06-2	0.01%
30	Potassium hydroxyoctaoxodizincatedichromate (*2)(*3)	11103-86-9	0.01%
31	Pentazinc chromate octahydroxide (*2)(*3)	49663-84-5	0.01%
32	1-bromopropane (n-propyl bromide)	106-94-5	0.01%
33	Diisopentylphthalate	605-50-5	0.01%
34	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	0.01%
35	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	0.01%

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36	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.01%
37	Bis(2-methoxyethyl) phthalate	117-82-8	0.01%
38	Dipentyl phthalate (DPP)	131-18-0	0.01%
39	N-pentyl-isopentylphthalate	776297-69-9	0.01%
40	Anthracene oil (*6)	90640-80-5	0.01%(*7)
41	Pitch, coal tar, high temperature (*6)	65996-93-2	0.01%(*7)
42	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (OPEO) [covering well-defined substances and UVCB substances, polymers and homologues]	-	0.01%
43	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.01%
44	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.01%
45	Dihexyl phthalate	84-75-3	0.01%
46	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 / 68648-93-1	0.01%
47	Trixylyl phosphate	25155-23-1	0.01%
48	Sodium perborate,perboric acid, sodium salt (*2) (*5)	-	0.01%
49	Sodium peroxometaborate (*2) (*5)	7632-04-4	0.01%
50	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.01%
51	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.01%
52	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.01%
53	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.01%
54	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.01%
55	Anthracene	120-12-7	0.01%
56	Bis(tributyltin) oxide (TBTO) (*4)	56-35-9	0.01%
57	Triethyl arsenate (*2)	15606-95-8	0.01%
58	Lead hydrogen arsenate (*2)	7784-40-9	0.01%
59	Cobalt dichloride (*2)	7646-79-9	0.01%
60	Acrylamide	79-06-1	0.01%
61	Anthracene oil, anthracene paste, distn. lights (*6)	91995-17-4	0.01% (*7)
62	Anthracene oil, anthracene paste, anthracene fraction (*6)	91995-15-2	
63	Anthracene oil, anthracene-low (*6)	90640-82-7	
64	Anthracene oil, anthracene paste (*6)	90640-81-6	
65	Boric acid (*2) (*5)	10043-35-3 / 11113-50-1	0.01%
66	Disodium tetraborate, anhydrous (*2) (*5)	1303-96-4 / 1330-43-4 / 12179-04-3	0.01%
67	Tetraboron disodium heptaoxide, hydrate (*2) (*5)	12267-73-1	0.01%

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68	2-Methoxyethanol	109-86-4	0.01%
69	2-Ethoxyethanol	110-80-5	0.01%
70	Cobalt(II) sulphate (*2)	10124-43-3	0.01%
71	Cobalt(II) dinitrate (*2)	10141-05-6	0.01%
72	Cobalt(II) carbonate (*2)	513-79-1	0.01%
73	Cobalt(II) diacetate (*2)	71-48-7	0.01%
74	Alkanes C10-C13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	0.01%
75	2-Ethoxyethyl acetate	111-15-9	0.01%
76	Hydrazine	302-01-2 / 7803-57-8	0.01%
77	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.01%
78	1,2,3-Trichloropropane	96-18-4	0.01%
79	Aluminosilicate Refractory Ceramic Fibres (RCF) (*8)	-	0.01%
80	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) (*8)	-	0.01%
81	2-Methoxyaniline, o-Anisidine	90-04-0	0.01%
82	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.01%
83	Calcium arsenate (*2)	7778-44-1	0.01%
84	Trilead diarsenate (*2)	3687-31-8	0.01%
85	N,N-dimethylacetamide (DMAC)	127-19-5	0.01%
86	Phenolphthalein	77-09-8	0.01%
87	Lead dipicrate (*2)	6477-64-1	0.01%
88	Lead diazide, Lead azide (*2)	13424-46-9	0.01%
89	Lead styphnate (*2)	15245-44-0	0.01%
90	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	0.01%
91	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	0.01%
92	Diboron trioxide (*2) (*5)	1303-86-2	0.01%
93	Formamide (FOR)	75-12-7	0.01%
94	Lead(II) bis(methanesulfonate) (*2)	17570-76-2	0.01%
95	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazine-2,4,6-trione (TGIC)	2451-62-9	0.01%
96	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.01%
97	4,4'-bis(dimethylamino)benzophenone (Michler's ketone), MK	90-94-8	0.01%
98	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base), RMK	101-61-1	0.01%
99	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*2)	2580-56-5	0.01%
100	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	548-62-9	
101	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	561-41-1	
102	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] (*9)	6786-83-0	
103	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.01%

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104	Pentacosafuorotridecanoic acid	72629-94-8	0.01%
105	Tricosafuorododecanoic acid	307-55-1	0.01%
106	Henicosafuoroundecanoic acid	2058-94-8	0.01%
107	Heptacosafuorotetradecanoic acid	376-06-7	0.01%
108	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA) (*11)	123-77-3	0.05%
109	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry]	85-42-7 / 13149-00-3 / 14166-21-3	0.01%
110	Hexahydromethylphthalic anhydride (MHHPA) [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 / 19438-60-9 / 48122-14-1 / 57110-29-9	0.01%
111	N,N-dimethylformamide (DMF)	68-12-2	0.01%
112	1,2-Diethoxyethane	629-14-1	0.01%
113	Diethyl sulphate	64-67-5	0.01%
114	Methoxyacetic acid (MAA)	625-45-6	0.01%
115	Dimethyl sulphate	77-78-1	0.01%
116	N-methylacetamide	79-16-3	0.01%
117	Furan	110-00-9	0.01%
118	Methyloxirane (Propylene oxide)	75-56-9	0.01%
119	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.01%
120	Dibutyltin dichloride (DBTC) (*15)	683-18-1	0.01%
121	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.01%
122	4,4'-methylenedi-o-toluidine	838-88-0	0.01%
123	4,4'-oxydianiline and its salts	101-80-4	0.01%
124	4-Aminoazobenzene	60-09-3	0.01%
125	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.01%
126	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.01%
127	Biphenyl-4-ylamine	92-67-1	0.01%
128	o-aminoazotoluene	97-56-3	0.01%
129	o-Toluidine	95-53-4	0.01%
130	Acetic acid, lead salt, basic (*2)	51404-69-4	0.01%
131	Trilead bis(carbonate) dihydroxide (*2)	1319-46-6	0.01%
132	Lead oxide sulfate (*2)	12036-76-9	0.01%
133	[Phthalato(2-)]dioxotrilead (*2)	69011-06-9	0.01%
134	Dioxobis(stearato)trilead (*2)	12578-12-0	0.01%
135	Fatty acids, C16-18, lead salts (*2)	91031-62-8	0.01%
136	Lead bis(tetrafluoroborate) (*2)	13814-96-5	0.01%
137	Lead cyanamidate (*2)	20837-86-9	0.01%
138	Lead dinitrate (*2)	10099-74-8	0.01%
139	Lead monoxide (lead oxide) (*2)	1317-36-8	0.01%
140	Orange lead (lead tetroxide) (*2)	1314-41-6	0.01%
141	Lead titanium trioxide (*2)	12060-00-3	0.01%

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142	Lead titanium zirconium oxide (*2)	12626-81-2	0.01%
143	Pyrochlore, antimony lead yellow (*2)	8012-00-8	0.01%
144	Pentalead tetraoxide sulphate (*2)	12065-90-6	0.01%
145	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD), the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008] (*2)	68784-75-8	0.01%
146	Silicic acid, lead salt (*2)	11120-22-2	0.01%
147	Sulfurous acid, lead salt, dibasic (*2)	62229-08-7	0.01%
148	Tetraethyllead (*2)	78-00-2	0.01%
149	Tetralead trioxide sulphate (*2)	12202-17-4	0.01%
150	Trilead dioxide phosphonate (*2)	12141-20-7	0.01%
151	Ammonium pentadecafluorooctanoate (APFO) (*12)	3825-26-1	0.01%
152	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.01%
153	Cadmium (*2)	7440-43-9	0.01%
154	Cadmium oxide (*2)	1306-19-0	0.01%
155	4-Nonylphenol, branched and linear, ethoxylated (NPEO) [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	0.01%
156	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.01%
157	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.01%
158	Disodium 4-amino-3'-[[4'-[(2,4-diaminophenyl)azo]]1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.01%
159	Lead di(acetate) (*2)	301-04-2	0.01%
160	Cadmium sulphide (*2)	1306-23-6	0.01%
161	Cadmium chloride (*2)	10108-64-2	0.01%
162	Cadmium fluoride (*2)	7790-79-6	0.01%
163	Cadmium sulphate (*2)	10124-36-4 / 31119-53-6	0.01%
164	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (*13)	15571-58-1	0.01%
165	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) (*14)	-	0.01%
166	1,3-propanesultone (1,3-PS)	1120-71-4	0.01%
167	Nitrobenzene	98-95-3	0.01%
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	0.01%
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.01%
170	4,4'-isopropylidenediphenol (bisphenol A) (BPA)	80-05-7	0.01%
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	0.01%
172	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	0.01%
173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.01%

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174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	0.01%
175	Chrysene	218-01-9	0.01%
176	Benzo[a]anthracene	56-55-3	0.01%
177	Cadmium nitrate(*2)	10325-94-7	0.01%
178	Cadmium hydroxide(*2)	21041-95-2	0.01%
179	Cadmium carbonate(*2)	513-78-0	0.01%
180	1,6,7,8,9,14,15,16,17,17,18,18- Dodecachloropentacyclo [12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.01%
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.01%
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	0.01%
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.01%
184	Terphenyl, hydrogenated	61788-32-7	0.01%
185	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.01%
186	Decamethylcyclopentasiloxane (D5)	541-02-6	0.01%
187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.01%
188	Ethylenediamine (EDA)	107-15-3	0.01%
189	Lead(*2)	7439-92-1	0.01%
190	Disodium octaborate (*2)(*5)	12008-41-2	0.01%
191	Benzo[ghi]perylene	191-24-2	0.01%
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.01%
193	Benzo[k]fluoranthene	207-08-9	0.01%
194	Fluoranthene	206-44-0	0.01%
195	Phenanthrene	85-01-8	0.01%
196	Pyrene	129-00-0	0.01%
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan- 2-one	15087-24-8	0.01%
198	2-methoxyethyl acetate	110-49-6	0.01%
199	Tris (4-nonylphenyl, branched and linear) phosphite (TNPP) Tris (4-nonylphenyl, branched) phosphite Phenol, p-sec-nonyl-, phosphite Phenol, 4-nonyl-, phosphite (3:1) tris(nonylphenyl) phosphite Phenol, p-isononyl-, phosphite (3:1)	- 106599-06-8 / 3050-88-2 / 26523-78-4 / 31631-13-7	0.01%
200	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.01%
201	4-tert-butylphenol (PTBP)	98-54-4	0.01%
202	Diisohexyl phthalate (DiHexP)	71850-09-4	0.01%
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.01%
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.01%
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.01%
206	1-vinylimidazole	1072-63-5	0.01%
207	2-methylimidazole	693-98-1	0.01%
208	Butyl 4-hydroxybenzoate	94-26-8	0.01%
209	Dibutylbis(pentane-2,4-dionato-O,O')tin(*15)	22673-19-4	0.01%
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.01%

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211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety (*13)	-	0.01%
212	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.01%
213	Orthoboric acid, sodium salt (*2) (*5)	13840-56-7	0.01%
214	2,2-bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 / 36483-57-5 / 1522-92-5 / 96-13-9	0.01%
215	Glutaral	111-30-8	0.01%
216	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	0.01%
217	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	-	0.01%
218	1,4-dioxane	123-91-1	0.01%
219	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.01%
220	tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.01%
221	S-(tricyclo(5.2.1.0 ^{2,6})deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	0.01%
222	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	0.01%
223	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC) (3E)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3E,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3Z,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one (1R,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1S,3E,4R)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one (1R,3Z,4S)-1,7,7-trimethyl-3-(4-methylbenzylidene)bicyclo[2.2.1]heptan-2-one	- 1782069-81-1 95342-41-9 852541-25-4 36861-47-9 741687-98-9 852541-30-1 852541-21-0	0.01%
224	N-(hydroxymethyl)acrylamide	924-42-5	0.01%
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	0.01%
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	79-94-7	0.01%
227	4,4'-sulphonyldiphenol	80-09-1	0.01%
228	Barium diboron tetraoxide(*2) (*5)	13701-59-2	0.01%
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	0.01%
230	Isobutyl 4-hydroxybenzoate	4247-02-3	0.01%
231	Melamine	108-78-1	0.01%
232	Perfluoroheptanoic acid and its salts	-	0.01%
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	0.01%
234	bis(4-chlorophenyl) sulphone	80-07-9	0.01%
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	75980-60-8	0.01%
236	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol Phenol, methylstyrenated EC / List no: 270-966-8 CAS no: 68512-30-1	-	0.01%
237	Bumetizole	3896-11-5	0.01%
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	0.01%
239	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9	0.01%
240	2,4,6-tri-tert-butylphenol	732-26-3	0.01%
241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	0.01%
242	Triphenyl phosphate (TPP)	115-86-6	0.01%
243	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	192268-65-8	0.01%
244	Perfluamine	338-83-0	0.01%
245	Octamethyltrisiloxane	107-51-7	0.01%
246	O,O,O-triphenyl phosphorothioate	597-82-0	0.01%
247	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid (*19)	2156592-54-8	0.01%

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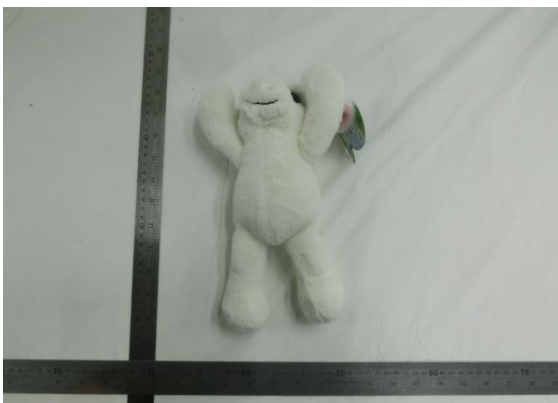
Remark:

- (*2) The substances are tested and calculated in terms of its respective elements and to the worst-case scenario. The report states the theoretical value of SVHC substances without consideration of the actual occurrence in the article.
- (*3) The substances are tested and calculated in terms of Cr (VI).
- (*4) The substance is tested and calculated in terms of Tributyl tin.
- (*5) The substances are tested and calculated in terms of boron element and the boron element may come from the compounds other than SVHCs.
- (*6) The substances are UVCB (substance of unknown or variable composition, complex reaction products or biological materials), which are identified by its main constituents.
- (*7) Individual concentrations to the constituent of UVCB with an amount of < 0.01% were not considered by the calculation of the sum.
- (*8) The test results are based on microscopic and chemical evaluation.
- (*9) The substances are quantified in terms of Michler's ketone and Michler's base by LC-MS, as Michler's ketone or Michler's base was found exceeds 0.01%.
- (*10) The content oligomer is determined by Py-GC/MS.
- (*11) The content of diazene-1,2-dicarboxamide is analyzed in terms of its breakdown product.
- (*12) The substance is tested in terms of pentadecafluorooctanoate.
- (*13) The substance is tested and calculated in terms of Dioctyl tin.
- (*14) The substance is tested and calculated in terms of Monoctyl tin and Dioctyl tin.
- (*15) The substance is tested and calculated in terms of Dibutyl tin
- (*16) The tested material(s) was screened only for selected SVHCs. Selection of tests refers to the material type and application and the possibility of contamination during production & material specific contamination of the product.
- (*17) The other SVHCs which are not mentioned in test result were either not subject to testing according to remark *16 or less than report limit.
- (*18) The theoretical content of SVHC substances is calculated in terms of its respective elements. This material may contains the mentioned SVHCs, it is suggested to check the respective recipe if the theoretical content of the respective substance >0.1% in each article
- (*19) Qualification is performed via determination of structural constituents. The result is reported as semi-quantitative equivalent concentration, relative to a reference compound.

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Sample Photos



- END -

