

Report No.: **158323054a 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):** TOPModel Plush Dogs And Cats In Sleepingbag  
Item no.: 13146-A  
**Sample obtaining method:** Sending by customer  
**Condition at delivery:** Test item complete and undamaged.  
**Sample Receiving date:** 2025-12-12, 2026-01-09  
**Testing Period:** 2026-01-05 to 2026-01-12  
**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

2026-01-15

Date

Name/Position



Wong Yiu Tong , Tommy/  
Senior Lab Manager

2026-01-15

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+A2:2024 Migration of certain 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 Depesche requirement: Formaldehyde (EN ISO 14184-1)	PASS
10 Depesche requirement: Phthalates content	PASS
11 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	PASS
12 Carcinogenic and Allergizing Dyes content according to Annex XVII Entry 72 of Regulation (EC) No 1907/2006 and its amendments 2	PASS
Allergizing Disperse Dyes, according to Federal Institute for Risk Assessment (BfR) (Information No. 041/2012, 6 July 2012)	PASS
13 Quinoline according to REACH regulation (EC) No. 1907/2006 and its amendments Annex XVII Entry 72	PASS
14 Depesche requirement: Resistance To Saliva And Perspiration Simulants	PASS

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**Material List:**

Item: TOPModel Plush Dogs And Cats In Sleepingbag

Item no.: 13146-A

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	[#Persian Cat]-Whole Product;[#Fluffy Dog]-Whole Product;[#Bulldog]-Whole Product;[#Chihuahua]-Whole Product;[#Siam Cat]-Whole Product;[#Tiger Cat]-Whole Product
M002	Textile	Gold embroidery threads with base fabric	[#Persian Cat]-On sleeping bag;[#Fluffy Dog]-On sleeping bag;[#Bulldog]-On sleeping bag;[#Chihuahua]-On sleeping bag;[#Siam Cat]-On sleeping bag;[#Tiger Cat]-On sleeping bag
M003	Textile	Brown embroidery threads with base fabric	[#Persian Cat]-On eyes
M004	Textile	Pink embroidery threads with base fabric	[#Persian Cat]-On paws;[#Tiger Cat]-On paws
M005	Textile	Black embroidery threads with base fabric	[#Fluffy Dog]-On eyes, paws;[#Bulldog]-On eyes, paws;[#Chihuahua]-On eyes, paws;[#Siam Cat]-On eyes, paws;[#Tiger Cat]-On eyes
M006	Textile	White embroidery threads with base fabric	[#Chihuahua]-On eyes
M007	Textile	White	[#Persian Cat]-Head, Body, Hands, Legs, Tail
M008	Textile	White	[#Persian Cat]-Nose, Paws;[#Chihuahua]-Paws ;[#Tiger Cat]-Paws
M009	Textile	Pale Pink	[#Persian Cat]-Threads of mouth;[#Tiger Cat]-Threads of mouth
M010	Textile	Pale Pink	[#Persian Cat]-Ears;[#Tiger Cat]-Ears
M011	Textile	Khaki with Khaki threads	[#Fluffy Dog]-Head, Body, Hands, Legs, Tail
M012	Textile	Beige	[#Fluffy Dog]-Paws
M013	Textile	Black	[#Fluffy Dog]-Threads of mouth;[#Bulldog]-Threads of mouth;[#Chihuahua]-Threads of mouth;[#Siam Cat]-Threads of mouth
M014	Textile	Black	[#Bulldog]-Ears, Nose, Tail ;[#Chihuahua]-Ears, Back, Tail

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M015	Textile	Light Brown with light brown threads	[#Bulldog]-Head, Back, Hand, Leg
M016	Textile	Pale Yellow	[#Bulldog]-Belly
M017	Textile	Pale Yellow	[#Bulldog]- Paws
M018	Textile	Milky White	[#Persian Cat]-Beard;[#Tiger Cat]-Beard
M019	Textile	Pink	[#Chihuahua]-Bowtie
M020	Textile	White	[#Chihuahua]-Heads, Belly;[#Tiger Cat]-Nose, Belly, Paws
M021	Textile	Brown	[#Siam Cat]-Ears, Nose, Paws, Tail
M022	Textile	Flesh with flesh threads	[#Siam Cat]-Head, Body
M023	Textile	Black	[#Siam Cat]-Beard
M024	Textile + printing	White + Black	[#Persian Cat]-Satin label;[#Fluffy Dog]-Satin label;[#Bulldog]-Satin label;[#Chihuahua]-Satin label;[#Siam Cat]-Satin label
M025	Textile + printing	Light Grey + Grey with white threads	[#Tiger Cat]-Head, Back, Tail, Hand, Leg
M026	Textile + Foam	Purple + White	[#Persian Cat]-Outer sleeping bag;[#Bulldog]-Outer sleeping bag
M027	Textile + Foam	Purple + White	[#Persian Cat]-Inner sleeping bag;[#Bulldog]-Inner sleeping bag
M028	Textile + Foam	Pink + White	[#Fluffy Dog]-Outer sleeping bag;[#Siam Cat]-Outer sleeping bag
M029	Textile + Foam	Pink + White	[#Fluffy Dog]-Inner sleeping bag;[#Siam Cat]-Inner sleeping bag
M030	Textile + Foam	Blue + White	[#Chihuahua]-Outer sleeping bag;[#Tiger Cat]-Outer sleeping bag
M031	Textile + Foam	Blue + White	[#Chihuahua]-Inner sleeping bag;[#Tiger Cat]-Inner sleeping bag
M032	Plastic + Textile	Pale Pink/ Flesh + Beige	[#Persian Cat]-Nose ;[#Tiger Cat]-Nose
M033	Plastic + Textile	Black + Black	[#Fluffy Dog]-Nose;[#Bulldog]-Nose;[#Chihuahua]-Nose;[#Siam Cat]-Nose
M034	Plastic	White	[#Persian Cat]-Beads (Inaccessible);[#Fluffy Dog]-Beads (Inaccessible);[#Bulldog]-Beads (Inaccessible);[#Chihuahua]-Beads (Inaccessible);[#Siam Cat]-Beads (Inaccessible);[#Tiger Cat]-Beads (Inaccessible)

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M035	Plastic	Translucent White	[#Persian Cat]-Cover of nose (Inaccessible);[#Fluffy Dog]-Cover of nose (Inaccessible);[#Bulldog]-Cover of nose (Inaccessible);[#Chihuahua]-Cover of nose (Inaccessible);[#Siam Cat]-Cover of nose (Inaccessible);[#Tiger Cat]-Cover of nose (Inaccessible)
M036	Textile + adhesive	White	[#Persian Cat]-Felt of nose (Inaccessible);[#Fluffy Dog]-Felt of nose (Inaccessible);[#Bulldog]-Felt of nose (Inaccessible);[#Chihuahua]-Felt of nose (Inaccessible);[#Siam Cat]-Felt of nose (Inaccessible);[#Tiger Cat]-Felt of nose (Inaccessible)
M038	Textile	White	[#Persian Cat]-Mesh fabric of sleeping bag, beads bag (Inaccessible);[#Fluffy Dog]-Mesh fabric of sleeping bag, beads bag (Inaccessible);[#Bulldog]-Mesh fabric of sleeping bag, beads bag (Inaccessible);[#Chihuahua]-Mesh fabric of sleeping bag, beads bag (Inaccessible);[#Siam Cat]-Mesh fabric of sleeping bag, beads bag (Inaccessible);[#Tiger Cat]-Mesh fabric of sleeping bag, beads bag (Inaccessible)
M039	Synthetic fibre	White	[#Persian Cat]-Stuffing (Inaccessible);[#Fluffy Dog]-Stuffing (Inaccessible);[#Bulldog]-Stuffing (Inaccessible);[#Chihuahua]-Stuffing (Inaccessible);[#Siam Cat]-Stuffing (Inaccessible);[#Tiger Cat]-Stuffing (Inaccessible)
M040	Plastic	Translucent	[#Persian Cat]-Pin of hangtag (Packaging);[#Fluffy Dog]-Pin of hangtag (Packaging);[#Bulldog]-Pin of hangtag (Packaging);[#Chihuahua]-Pin of hangtag (Packaging);[#Siam Cat]-Pin of hangtag (Packaging);[#Tiger Cat]-Pin of hangtag (Packaging)
M041	Plastic + printing + paper	Transparent + Multicolor + White	[#Persian Cat]-Hangtag (Packaging);[#Fluffy Dog]-Hangtag (Packaging);[#Bulldog]-Hangtag (Packaging);[#Chihuahua]-Hangtag (Packaging);[#Siam Cat]-Hangtag (Packaging);[#Tiger Cat]-Hangtag (Packaging)

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M042	Plastic + printing + paper	Transparent + White/ Pink + White/ Brown	[#Persian Cat]-Box (Packaging);[#Fluffy Dog]-Box (Packaging);[#Bulldog]-Box (Packaging);[#Chihuahua]-Box (Packaging);[#Siam Cat]-Box (Packaging);[#Tiger Cat]-Box (Packaging)
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**1. EN 71-1:2014+A1:2018 Mechanical and physical properties**

	Test No:	T001
	Material No:	M001
<b>4. General requirements</b>		
4.1 Material cleanliness		PASS
4.7 Edges		PASS
4.8 Points and metallic wires		PASS
<b>5. Toys intended for children under 36 months</b>		
5.1 General requirements		PASS
5.2 Soft-filled toys and soft-filled parts of a toy		PASS
5.4 Cords, chains and electrical cables in 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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**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.

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

	Test No:	T001
	Material No.	M001
4.1 General requirements		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.

**5. EN 71-3:2019+A2:2024 Migration of certain elements**

Test Method: with reference to EN 71-3:2019+A2:2024, analyzed by ICP-OES / ICP-MS / LC-ICP-MS/IC-UV/GC-MS.

**3) For scraped-off toy materials:**

**Test Result:**

Test Parameter	Unit	RL	Test No.	T001	T002	T003
			Material No.	M002	M003	M004
			Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	42	< 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	4.2	< RL	2.6
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	3.1	< RL	5.3
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 <sup>^</sup>	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
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T004	T005	T006
			Material No.	M005	M006	M007
			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	2.9	< 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	2.9	< 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	3.4	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	20mg	-

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T007	T008	T009
			Material No.	M008	M009	M010
			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	3.6	< 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 <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	19mg	-

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T010	T011	T012
			Material No.	M011	M012	M013
			Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	24	< 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	3.6
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 <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	24mg

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T013	T014	T015
			Material No.	M014	M015	M016
			Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	43	< 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	3.0	< 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 <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

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- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T016	T017	T018
			Material No.	M017	M018	M019
			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	6.4	< RL
Tin (Sn)	mg/kg	1.0	180,000	1.4	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	53mg	-

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- mg denotes milligram
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**Test Result:**

Test Parameter	Unit	RL	Test No.	T019	T020	T021
			Material No.	M020	M021	M022
			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 <sup>^</sup>	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
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal

**Test Result:**

Test Parameter	Unit	RL	Test No.	T022	T023	T024
			Material No.	M023	M024	M025
			Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	137	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	13	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	5.1	< 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	6.4	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	1.0	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	58mg	-	-

**Abbreviation:**

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T025	T026	T027
			Material No.	M026	M027	M028
			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 <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	15	16	17
Mass of trace amount	mg	--	--	-	-	-

**Abbreviation:**

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T028	T029	T030
			Material No.	M029	M030	M031
			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 <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	16	10	11
Mass of trace amount	mg	--	--	-	-	-

**Abbreviation:**

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal

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**Test Result:**

Test Parameter	Unit	RL	Test No.	T031	T032
			Material No.	M032	M033
			Regulatory Requirement	Result	Result
Aluminium (Al)	mg/kg	10	28,130	36	23
Antimony (Sb)	mg/kg	5	560	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL
Mass of trace amount	mg	--	--	-	-

**Abbreviation:**

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- mg denotes milligram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 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+A2:2024 / BS EN 71-3:2019+A2:2024 , 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.
- \*\*\* The highlighted result was found to be more than the maximum permissible limit.
- \*\*\*\* According to EN 71-3:2019+A2:2024, 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.

**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	T003
Material No.					M002 + M003 + M004	M005 + M006	M007 + M008 + M009
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Tri-o-cresyl phosphate	78-30-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL
Tris-(2-chloroethyl)-phosphate	115-96-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL

Test No.					T004	T005	T006
Material No.					M010 + M011 + M012	M013 + M014 + M015	M016 + M018 + M019
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Tri-o-cresyl phosphate	78-30-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL
Tris-(2-chloroethyl)-phosphate	115-96-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL

Test No.					T007	T008	T009
Material No.					M020 + M021 + M022	M023	M024
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Tri-o-cresyl phosphate	78-30-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL
Tris-(2-chloroethyl)-phosphate	115-96-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL

Test No.					T010	T011	T012
Material No.					M025	M026 + M027 + M028	M029 + M030 + M031
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Tri-o-cresyl phosphate	78-30-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL
Tris-(2-chloroethyl)-phosphate	115-96-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL

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					Test No.	T013	T014	T015
					Material No.	M032	M033	M038
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Tri-o-cresyl phosphate	78-30-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL	
Tris-(2-chloroethyl)-phosphate	115-96-8	mg/kg	5	50 (Action Limit)	< RL	< RL	< RL	

					Test No.	T016	T017
					Material No.	M039	M017
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	T003
					Material No.	M005	M007 + M008 + M011	M012 + M014 + M015
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Disperse Blue 1	2475-45-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 3	2475-46-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 106	12223-01-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 124	61951-51-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 3	730-40-5	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 37/76	12223-33-5/ 13301-61-6	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Yellow 3	2832-40-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Red 1	2872-52-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 1	60-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 2	60-11-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 3	97-56-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Red 9	569-61-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 1	8004-87-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 3	548-62-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Red 26	3761-53-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Violet 49	1694-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 35*	12222-75-2	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	

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					Test No.	T004	T005	T006
					Material No.	M016 + M019 + M020	M021 + M022	M024
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Disperse Blue 1	2475-45-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 3	2475-46-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 106	12223-01-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 124	61951-51-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 3	730-40-5	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 37/76	12223-33-5/ 13301-61-6	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Yellow 3	2832-40-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Red 1	2872-52-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 1	60-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 2	60-11-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 3	97-56-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Red 9	569-61-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 1	8004-87-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 3	548-62-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Red 26	3761-53-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Violet 49	1694-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 35*	12222-75-2	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	

					Test No.	T007	T008	T009
					Material No.	M025	M026 + M027 + M028	M029 + M030 + M031
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Disperse Blue 1	2475-45-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 3	2475-46-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 106	12223-01-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 124	61951-51-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 3	730-40-5	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 37/76	12223-33-5/ 13301-61-6	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Yellow 3	2832-40-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Red 1	2872-52-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 1	60-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 2	60-11-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 3	97-56-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Red 9	569-61-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 1	8004-87-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 3	548-62-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Red 26	3761-53-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Violet 49	1694-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 35*	12222-75-2	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	

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					Test No.	T010	T011	T012
					Material No.	M032	M033	M017
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Disperse Blue 1	2475-45-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 3	2475-46-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 106	12223-01-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 124	61951-51-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 3	730-40-5	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Orange 37/76	12223-33-5/ 13301-61-6	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Yellow 3	2832-40-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Red 1	2872-52-8	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 1	60-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 2	60-11-7	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Solvent Yellow 3	97-56-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Red 9	569-61-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 1	8004-87-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Basic Violet 3	548-62-9	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Red 26	3761-53-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Acid Violet 49	1694-09-3	mg/kg	3	10 (Action Limit)	< RL	< RL	< RL	
Disperse Blue 35*	12222-75-2	mg/kg	3	10 (Action Limit)	< RL	< 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.
- \*1 The highlighted result was found to be more than the maximum permissible limit.

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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	T003
Material No.					M005	M007 + M008 + M011	M012 + M014 + M015
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzidine	92-87-5	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
2-Naphthylamine	91-59-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
4-Chloroaniline	106-47-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
3,3'-Dimethylbenzidine	119-93-7	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
o-Toluidine	95-53-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
Aniline	62-53-3	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL

Test No.					T004	T005	T006
Material No.					M016 + M019 + M020	M021 + M022	M024
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result
Benzidine	92-87-5	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
2-Naphthylamine	91-59-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
4-Chloroaniline	106-47-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
3,3'-Dimethylbenzidine	119-93-7	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
o-Toluidine	95-53-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL
Aniline	62-53-3	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL

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					Test No.	T007	T008	T009
					Material No.	M025	M026 + M027 + M028	M029 + M030 + M031
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Benzidine	92-87-5	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
2-Naphthylamine	91-59-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
4-Chloroaniline	106-47-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
3,3'-Dimethylbenzidine	119-93-7	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
o-Toluidine	95-53-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
Aniline	62-53-3	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	

					Test No.	T010	T011	T012
					Material No.	M032	M033	M017
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	Result	Result	
Benzidine	92-87-5	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
2-Naphthylamine	91-59-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
4-Chloroaniline	106-47-8	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
3,3'-Dimethylbenzidine	119-93-7	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
o-Toluidine	95-53-4	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
2-Methoxyaniline (o-Anisidine)	90-04-0	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	
Aniline	62-53-3	mg/kg	1	5 (Action Limit)	< RL	< RL	< RL	

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

**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	Customer's Requirement	Weight of sample (g)	Test Result
T001	M002 + M003 + M004	Formaldehyde content	50-00-0	mg/kg	10	75	1.0080	< RL
T002	M005 + M006	Formaldehyde content	50-00-0	mg/kg	10	75	1.0061	< RL
T003	M007 + M008	Formaldehyde content	50-00-0	mg/kg	10	75	1.0020	< RL
T004	M010 + M011 + M012	Formaldehyde content	50-00-0	mg/kg	10	75	1.0080	< RL
T005	M014 + M015	Formaldehyde content	50-00-0	mg/kg	10	75	1.0066	< RL
T006	M016 + M018 + M019	Formaldehyde content	50-00-0	mg/kg	10	75	1.0062	< RL
T007	M020 + M021 + M022	Formaldehyde content	50-00-0	mg/kg	10	75	1.0089	< RL
T009	M024	Formaldehyde content	50-00-0	mg/kg	10	75	1.0083	< RL
T010	M025	Formaldehyde content	50-00-0	mg/kg	10	75	0.5041	< RL
T011	M026 + M027 + M028	Formaldehyde content	50-00-0	mg/kg	10	75	1.0048	< RL
T012	M029 + M030 + M031	Formaldehyde content	50-00-0	mg/kg	10	75	1.0103	< RL
T013	M032	Formaldehyde content	50-00-0	mg/kg	10	75	1.0065	< RL
T014	M033	Formaldehyde content	50-00-0	mg/kg	10	75	1.0043	< RL
T015	M017	Formaldehyde content	50-00-0	mg/kg	10	75	1.0090	< 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 CH<sub>2</sub>O/ml to 6 µg CH<sub>2</sub>O/ml.
- \*\*\* One test is performed for each material.

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**10. Phthalates content**

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

**Test Result:**

				Test No.	T001	T002	T003
				Material No.	M026 + M027 + M028	M029 + M030 + M031	M032
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.				T004	T005	T006
Material No.				M033	M034 + M035	M036
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 Parameter	CAS NO	Unit	RL	Test No.	T007	T008	T009
				Material No.	M040	M041	M042
Test Parameter	CAS NO	Unit	RL	Result	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	< RL	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.01	< RL	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	< RL	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.01	< RL	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.01	<RL	<RL	<RL	<RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	< RL	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	< RL	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.01	< RL	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.01	<RL	<RL	<RL	<RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.01	< RL	< RL	< RL	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.01	< RL	< RL	< RL	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.01	< RL	< RL	< RL	< RL
Diisopentyl phthalate (DiPP)	605-50-5	%	0.01	< RL	< RL	< RL	< RL
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.01	< RL	< RL	< RL	< RL
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.01	< RL	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	< RL	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	< RL	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	< RL	< RL	< RL	< RL
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	< RL	< 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	< RL
Conclusion: Customer's requirement				Pass	Pass	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.

**11. 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:**

ID	Test Parameter	Material No.				M002		M005		
		CAS NO	Unit	RL	Regulatory Requirement	Test No.	T001-1 (*3)	T001-2 (*3)	T002-1	T002-2
						Method No.	Method 1	Method 2	Method 1	Method 2
						A22 Confirmation Method No.	-	-	4	4
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-Toluylendiamine	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.				M010 + M011		M012 + M014	
		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-Toluylendiamine	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.				M015 + M016		M019 + M021 + M022	
		Test No.				T005-1	T005-2	T006-1	T006-2
		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-Toluylendiamine	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.				M023		M024	
		Test No.				T007-1 (*3)	T007-2 (*3)	T008-1 (*3)	T008-2 (*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-Toluylendiamine	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.				M025		M026 + M027 + M028	
		Test No.				T009-1	T009-2	T010-1	T010-2
		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-Toluylendiamine	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.				M029 + M030 + M031		M032	
		Test No.				T011-1	T011-2	T012-1	T012-2
		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-Toluylendiamine	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.				M033		M017	
		Test No.				T013-1	T013-2	T014-1	T014-2
		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-Toluylendiamine	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.				M003		M009	
		Test No.				T015-1 (*3)	T015-2 (*3)	T016-1 (*3)	T016-2 (*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-Toluylendiamine	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.				M013		M018	
		Test No.				T017-1 (*3)	T017-2 (*3)	T018-1 (*3)	T018-2 (*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-Toluylendiamine	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	--	-	-	-	-

		Material No.				M004	
		Test No.				T019-1	T019-2
		Method No.				Method 1	Method 2
		A22 Confirmation Method No.				4	4
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	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-Toluylendiamine	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

**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.
- \*2 The requirement is following Appendix C of Annex II to Directive 2009/48/EC with Commission Directive amendment (EU) 2021/903, the amount of aniline after reductive cleavage in textile toy material and leather toy material shall not exceed 30 mg/kg in 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 5 December 2022.
- \*3 The weight of test portion available was less than 0.2g, the test for azo dyes was not performed.

**12. Carcinogenic, Allergizing Disperse Dyes and Other Banned Dyestuffs**

Test Method: DIN 54231: 2022

**Test Results:**

Material No				M002 + M003 + M004	M005	M009 + M010 + M011
Test No				T001	T002	T003
Parameter	CAS NO	Unit	RL	Result	Result	Result
C.I. Disperse Blue 1	2475-45-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 35	12222-75-2	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 106	12223-01-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 124	61951-51-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 3	730-40-5	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 37/76/59	12223-33-5/ 13301-61-6/ 51811-42-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Red 1	2872-52-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Yellow 3	2832-40-8	mg/kg	15	< RL	< RL	< RL
C.I. Basic Red 9	569-61-9	mg/kg	15	< RL	< RL	< RL
C.I. Basic Violet 3 (with ≥ 0.1 % Michler's ketone or base)	548-62-9	mg/kg	15	< RL	< RL	< RL

Material No				M012 + M013 + M014	M015 + M016 + M018	M019 + M021 + M022
Test No				T004	T005	T006
Parameter	CAS NO	Unit	RL	Result	Result	Result
C.I. Disperse Blue 1	2475-45-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 35	12222-75-2	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 106	12223-01-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 124	61951-51-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 3	730-40-5	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 37/76/59	12223-33-5/ 13301-61-6/ 51811-42-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Red 1	2872-52-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Yellow 3	2832-40-8	mg/kg	15	< RL	< RL	< RL
C.I. Basic Red 9	569-61-9	mg/kg	15	< RL	< RL	< RL
C.I. Basic Violet 3 (with ≥ 0.1 % Michler's ketone or base)	548-62-9	mg/kg	15	< RL	< RL	< RL

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Material No				M023	M024	M025
Test No				T007	T008	T009
Parameter	CAS NO	Unit	RL	Result	Result	Result
C.I. Disperse Blue 1	2475-45-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 35	12222-75-2	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 106	12223-01-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 124	61951-51-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 3	730-40-5	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 37/76/59	12223-33-5/ 13301-61-6/ 51811-42-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Red 1	2872-52-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Yellow 3	2832-40-8	mg/kg	15	< RL	< RL	< RL
C.I. Basic Red 9	569-61-9	mg/kg	15	< RL	< RL	< RL
C.I. Basic Violet 3 (with ≥ 0.1 % Michler's ketone or base)	548-62-9	mg/kg	15	< RL	< RL	< RL

Material No				M026 + M027 + M028	M029 + M030 + M031	M032
Test No				T010	T011	T012
Parameter	CAS NO	Unit	RL	Result	Result	Result
C.I. Disperse Blue 1	2475-45-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 35	12222-75-2	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 106	12223-01-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Blue 124	61951-51-7	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 3	730-40-5	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Orange 37/76/59	12223-33-5/ 13301-61-6/ 51811-42-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Red 1	2872-52-8	mg/kg	15	< RL	< RL	< RL
C.I. Disperse Yellow 3	2832-40-8	mg/kg	15	< RL	< RL	< RL
C.I. Basic Red 9	569-61-9	mg/kg	15	< RL	< RL	< RL
C.I. Basic Violet 3 (with ≥ 0.1 % Michler's ketone or base)	548-62-9	mg/kg	15	< RL	< RL	< RL

Material No				M033	M017
Test No				T013	T014
Parameter	CAS NO	Unit	RL	Result	Result
C.I. Disperse Blue 1	2475-45-8	mg/kg	15	< RL	< RL
C.I. Disperse Blue 35	12222-75-2	mg/kg	15	< RL	< RL
C.I. Disperse Blue 106	12223-01-7	mg/kg	15	< RL	< RL
C.I. Disperse Blue 124	61951-51-7	mg/kg	15	< RL	< RL
C.I. Disperse Orange 3	730-40-5	mg/kg	15	< RL	< RL
C.I. Disperse Orange 37/76/59	12223-33-5/ 13301-61-6/ 51811-42-8	mg/kg	15	< RL	< RL
C.I. Disperse Red 1	2872-52-8	mg/kg	15	< RL	< RL
C.I. Disperse Yellow 3	2832-40-8	mg/kg	15	< RL	< RL
C.I. Basic Red 9	569-61-9	mg/kg	15	< RL	< RL
C.I. Basic Violet 3 (with ≥ 0.1 % Michler's ketone or base)	548-62-9	mg/kg	15	< RL	< RL

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**Abbreviation:** < = less than  
 RL=Reporting Limit  
 mg/kg =milligram per kilogram  
 \*=Dye with allergenic characters  
 Δ =Dye with carcinogenic characters.  
 + =Dye tested by In-house methods, the substance is tested in terms of its respective elements (e.g. Pb, Cr, Mo) and Cr (VI).

**Remark:**

\* According to REACH regulation (EC) No. 1907/2006 and its amendments Annex XVII Entry 72:

Substances	CAS No	Maximum Permissible Limit
1,4,5,8-tetraaminoanthraquinone; C.I. Disperse Blue 1	2475-45-8	50 mg/kg
Benzenamine, 4,4'-(4-iminocyclohexa-2,5-dienylidenemethylene)dianiline hydrochloride; C.I. Basic Red 9	569-61-9	50 mg/kg
[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)	548-62-9	50 mg/kg

\*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.

**13.Quinoline**

Test Method: Ref. to DIN 54231:2022

**Test Result:**

Test No.	Material No.	Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Test Result	Conclusion
T001	M002 + M003 + M004	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T002	M005 + M006	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T003	M007 + M008 + M009	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T004	M010 + M011 + M012	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T005	M013 + M014 + M015	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T006	M016 + M018 + M019	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T007	M020 + M021 + M022	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T008	M023	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T009	M024	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T010	M025	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T011	M026 + M027 + M028	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T012	M029 + M030 + M031	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T013	M032	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T014	M033	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass
T015	M017	Quinoline	91-22-5	mg/kg	10	50	< RL	Pass

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

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**14. Resistance To Saliva And Perspiration Simulants**

Test method : DIN 53160:2023-07

	<u>M002</u>	<u>M003</u>	<u>M004</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M005</u>	<u>M009</u>	<u>M010</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M011</u>	<u>M012</u>	<u>M013</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M014</u>	<u>M015</u>	<u>M016</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M017</u>	<u>M018</u>	<u>M019</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M021</u>	<u>M022</u>	<u>M023</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M024</u>	<u>M025</u>	<u>M026</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	

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	<u>M027</u>	<u>M028</u>	<u>M029</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M030</u>	<u>M031</u>	<u>M032</u>	<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5	5	5	
- Perspiration simulant	5	5	5	
	<u>M033</u>			<u>Requirement</u>
Colour staining				4-5
- Saliva simulant	5			
- Perspiration simulant	5			

Abbreviation : Grey Scale Rating:  
 Grade 5 - Excellent  
 Grade 4 - Good  
 Grade 3 - Fair  
 Grade 2 - Poor  
 Grade 1 - Very Poor

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Sample Photos



#Persian Cat



#Bulldog



#Siam Cat



#Fluffy Dog



#Tiger Cat

Sample Photo



#Chihuahua

- END -

## General Terms and Conditions of Business of TÜV Rheinland in Greater China

**1. Scope**

1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBCB") is made between the client and the provider of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China here refers to the regions within the territories of China. The client hereby indicates:

(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of the use of TÜV Rheinland in Greater China, or

(ii) the incorporated or unincorporated entity duly organized, validly existing and capable to form legally binding contracts under the applicable law.

1.2 The following terms and conditions apply to agreed services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.

1.3 Any standard terms and conditions of the client if any nature shall not apply and shall hereby be expressly excluded. No standard contractual terms and conditions of the client shall form part of the contract even if TÜV Rheinland does not explicitly object to them.

1.4 In the context of an ongoing business relationship with the client, this GTBCB shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

**2. Quotations**

Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.

**3. Coming into effect and duration of contracts**

3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties, or upon the receipt requested by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice of such acceptance (including notice sent via electronic means) or by performing the requested services.

3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.

3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for the extension as stated in writing by either party with a three-month notice prior to the end of the contractual term.

**4. Scope of services**

4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be decisive for the services to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking of certificates, parts, products, installations, organizations not listed in the service description, as well as the intended use and application of such) are not covered. In particular, no responsibility is assumed for the design, selection of materials, construction or intended use of an examined part, product, process or plant, unless this is expressly stated in the order.

4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contract is entered into.

4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.

4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (proper quality) and working order of either tested or examined parts nor of the installation as a whole or its upstream and/or downstream processes, organizations, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of design, installation or maintenance of the installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.

4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based, unless otherwise expressly agreed in writing.

4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract, with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.

4.7 The services to be provided by TÜV Rheinland under the contract are agreed exclusively with the client. A contract of third parties with the services of TÜV Rheinland, as well as making available of and justifying confidence in the work results (test reports and test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in part - to third parties in accordance with clause 11.4.

4.8 The client understands and agrees that in order to perform the contract with TÜV Rheinland, the client may need to sign one or more contracts/agreements with a/more third party(ies) and establish legal relationships with those third party(ies) according to such contracts/agreements. TÜV Rheinland is not liable for the legal consequences of such contracts/agreements according to this contract and the direct services actually to be provided by our company in the service process. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and certification services) to be provided by third parties, TÜV Rheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that TÜV Rheinland can also subcontract to a third party the services to be provided by TÜV Rheinland, including but not limited to any testing and certification services to be provided by any third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client or testing and/or certification services to be provided by any third parties) and the relevant laws and regulations and/or the terms under the contract. If the client is required to comply with any annual renewal/validity of the testing and certification services results and pay additional fees in accordance with the relevant laws and regulations or the testing and certification rules, such fees are not within the scope of the contract price, the client shall timely perform the obligation to pay the fees and/or to provide the corresponding fees. If the client fails to perform such obligations of the annual renewal/validity or fees payment, it may lead to adverse consequences such as failure/suspension/cancellation/invalidity of testing and/or certification results, which shall be borne by the client.

4.9 For the service contract agreed in the contract, if the client requires TÜV Rheinland to deliver relevant test samples, data, etc. to any overseas laboratory or other places or sites to be designated by the client, TÜV Rheinland shall not take any responsibility for any problems during such delivery and the transportation process (including but not limited to any loss or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

**5. Performance periods/dates**

5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if being confirmed as binding by TÜV Rheinland in writing.

5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has submitted all required documents to TÜV Rheinland.

5.3 Articles 5.1 and 5.2 also apply, even without express agreement by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.

5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate with clause 6.1 or has not done so in time and, in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.

5.5 If the performance of TÜV Rheinland is delayed due to unforeseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.

5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, in the form of public notices or public announcements by a reputable commercial bank which enable the client to comply with the legal and/or officially prescribed deadlines, TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed in writing specifically stating that ensuring the deadlines is the contractual obligation of TÜV Rheinland.

**6. The client's obligation to cooperate**

6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in good time and at no cost to TÜV Rheinland.

6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the services shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:

a) it has required statutory qualifications;

b) the product, service or management system to be certified complies with applicable laws and regulations; and

c) it doesn't have any legal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts (People's Republic of China).

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to immediately terminate the contract/order without prior notice; and ii) withdraw the issued testing reports/certificates if any.

6.3 The client shall bear any additional costs incurred on account of work having to be redone or being delayed as a result of late, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

**7. Prices**

7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.

7.2 Unless otherwise agreed, the price shall be payable in cash at the time of performance of the work.

7.3 If the execution of an order extends over more than one month and the value of the contract or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account or in instalments.

**8. Payment terms**

8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.

8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.

8.3 In cases of default of payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short term interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.

8.4 Should the client default in payment of the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.

8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned cheques, cessation of payment, commencement of insolvency proceedings against the client's assets or cases in which the commencement of insolvency proceedings has been dismissed due to lack of assets.

8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.

8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.

8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of changes in fees). If the contract is terminated under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract by the end of the period of notice of changes in fees. If the contract is not terminated, the rise in fees shall be deemed to have been agreed upon by the time of the expiry of the notice period.

8.9 Only legally established and undisputed claims may be offset against payments by TÜV Rheinland.

8.10 TÜV Rheinland shall have the right at all times to set off any amount due or payable by the client, including but not limited to set-off against any past due by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

**9. Acceptance of work**

9.1 Any part of the work required or contracted which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.

9.2 If acceptance is required or contractually agreed in an individual case, this shall be deemed to have taken place two (2) weeks after completion and handover of the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.

9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.

9.4 If acceptance is excluded according to the nature of the work performance of TÜV Rheinland, the completion of the work shall take place.

9.5 During the Follow-Up stage, the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing/performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit by TÜV Rheinland, TÜV Rheinland is, in its sole discretion, entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to claim the same damages in the event of damages in the form of a lump-sum compensation for expenses if the service is not called within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

**10. Confidentiality**

10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing technology applied, including but not limited to, but not restricted to, know-how or otherwise disclosed by one Party (the "disclosing party") to the other Party (the "receiving party"), in writing or orally, in printed or electronic form. Confidential information is expressly not the data and know-how or otherwise disclosed by TÜV Rheinland to the client for the purpose of the contract and not proprietary to the client) with the scope of the provision of services by TÜV Rheinland. TÜV Rheinland is entitled to store, use, further develop and pass on the data obtained in connection with the provision of services for the purposes of developing new services, improving services and analysing the provision of services. 10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before passing it onto the receiving party. The same applies to confidential information transmitted by e-mail. If confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party does not do so within the specified period, the receiving party shall not take any confidentiality obligations hereunder towards such information. The client shall avoid using any third party platform and/or system (e.g. Wechat, etc.) authorized by TÜV Rheinland to disclose confidential information. The disclosing party shall send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any theft or leakage of the confidential information, the disclosing party shall not be liable for the resulting damages mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is created during performance of the contract shall be confidential and may only be used by the receiving party for the purposes of performing the contract, unless expressly otherwise agreed in writing by the disclosing party.

10.4 The client may not copy, distribute, publish or otherwise disclose by the receiving party, unless this is necessary for fulfilling the purpose of the contract or TÜV Rheinland is required to pass on confidential information, inspection reports or documentation to the government authorities, public bodies, accreditation bodies or third parties and/or indirect purchasers, vehicle manufacturers/whole equipment manufacturers, test standards or test requirements providers of the client's test products and/or certified products.

10.5 The receiving party shall not disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract. The receiving party shall be obliged to obligate these employees to observe the same level of secrecy as set forth in this confidentiality clause.

10.6 Information for which the receiving party can furnish proof that:

a) it was generally known at the time of disclosure or has become general knowledge without violation of any confidentiality obligations by the disclosing party; or

b) it was disclosed to the receiving party by a third party entitled to disclose this information; or

c) the receiving party already possessed this information prior to disclosure by the disclosing party; or

d) the receiving party developed it itself, irrespective of disclosure by the disclosing party, shall not be deemed to constitute confidential information as defined in this confidentiality clause.

10.7 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to immediately (i) return all confidential information, including all copies, to the disclosing party, and (ii) on request by the disclosing party, to destroy or delete all confidential information, including all copies, and to confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but at the latest and without special request after termination or expiry of the contract. This does not include reports and certificates issued for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to comply with the requirements of the contract and general documentation purposes required by laws, regulations and the requirements of working procedures of TÜV Rheinland.

10.8 From the start of the contract and for a period of three years after termination or expiry of the contract, the receiving party shall maintain strict secrecy of all confidential information and shall not disclose this information to any third parties or use it for itself.

**Copyrights and rights of use, publications**

11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports/opinions, test reports/results, results, calculations, presentations etc. prepared by TÜV Rheinland, unless otherwise agreed by the parties in a separate agreement. As the owner of the copyrights, TÜV Rheinland is free to grant others the right to use the work results for individual or all types of use ("right of use").

11.2 The client grants to TÜV Rheinland a simple, unlimited, non-transferable, non-sublicensable right of use to the contents of the work results produced within the scope of the contract, unless otherwise agreed by the parties in a separate agreement. The client may only use such reports, expert reports/opinions, test reports/results, results, calculations or presentations etc. prepared within the scope of the contract for the contractually agreed purpose.

11.3 The transfer of right of use of the generated work results regulated in clause 11.2 of the GTBCB is subject to full payment of the remuneration for the work results.

11.4 The client may use work results only complete and unshortened. The client may only pass on the work results in full unless TÜV Rheinland has given its prior written consent to the partial passing on of work results.

11.5 Any publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope regulated in clause 11.2, and any quotation of the introduction of TÜV Rheinland shall be limited to (i) in the case of a contract with a fixed overall fee, three times the overall fee for the entire contract; (ii) in the case of a contract for an annually recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement that provides for the possibility of placing individual orders, three times of the fee for the individual order under which the damages or losses have occurred. Notwithstanding the above, the client shall be liable for all damages or losses incurred according to the foregoing provisions exceeds 25 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 25 Million Euro or equivalent amount in local currency.

11.6 The limitation of liability according to clause 11.5 shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its vicarious agents. Such limitation shall not apply to damages for a person's death, the contractual or direct consequences involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is a breach of a material contractual obligation, the performance of which permits the due performance of the contract. Any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

11.7 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services or the contractual or vicarious personnel made available as regarded as vicarious agent of TÜV Rheinland. If TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing provision, the client shall indemnify TÜV Rheinland against any claims made by third parties arising from in connection with such personnel's acts.

11.8 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract for damages caused by the client's personnel.

11.9 The limitation periods for claims for damages shall be based on statutory provisions.

11.10 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

**13. Export control**

13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.

13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade legislations or embargos and/or

sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereof by TÜV Rheinland.

**14. Data protection notice**

The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client) for the purpose of the performance of this contract. The client confirms that it has obtained the prior consent of the data subject, which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland. For certain services, such as consultancy services, TÜV Rheinland may use and process the data in accordance with the relevant legal basis. If any personal data has been disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also confirms that it has obtained the prior consent of the data subject. TÜV Rheinland will carry out cross-border data transmission and protect the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or unauthorized access of personal data. The personal data will be deleted immediately as soon as a corresponding reason for deletion arises. Data subjects may exercise the following rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to file a complaint with the competent data protection supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the personal responsible or contract processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland by e-mail at dataprotection@tuv.com or by post at the following address: TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51106 Cologne, Germany.

**15. Retention of test material and documentation**

15.1 The test samples submitted by the client to TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.

15.2 Charges apply if the test samples are stored at the premises of TÜV Rheinland. The cost of placing a test sample into storage will be disclosed to the client in the quotation.

15.3 The client understands and agrees that TÜV Rheinland may be placed in storage at their premises, the relevant samples or documents must be made available to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making the samples or documents available for inspection, any liability claims for material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.

15.4 The client reserves the right to request the destruction of the test samples after the expiry of the test mark certificates or shall meet the applicable legal requirements for EU/EEC certificates of conformity and GS mark certificates.

15.5 The completed and dispatched of the test samples for storage on the client's premises are borne by the client. TÜV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

**16. Termination of the contract**

16.1 Notwithstanding clause 3.3 of the GTBCB, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services, in part, if one of the combined parts of the contract individually and independently of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to a loss or suspension of its accreditation or notification.

16.2 For good cause, TÜV Rheinland may consider giving a written notice to the client to terminate the contract without being bound by any liabilities and/or claims for relevant service fees, but only for services provided by TÜV Rheinland due to the termination date of the contract. The aforesaid good causes includes but not limited to the following:

a) the client does not fulfil its obligations to TÜV Rheinland; or

b) the client misuses the certificate or certification mark or uses it in violation of the contract; or

c) the event of several consecutive delays in the registration of the relevant service fees; and

d) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and TÜV Rheinland cannot reasonably be expected to continue the contractual relationship.

16.3 In the event of any serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;

16.4 If TÜV Rheinland, at its discretion, deems it necessary to temporarily or finally not able or intend to continue or finalize the performance of the service, e.g. in case of force majeure, government interference, sanctions, loss of accreditation or notification, or other.

16.5 If the country/region in which the registration of the relevant service project in the contract does not belong to the insurance coverage applicable to TÜV Rheinland, and TÜV Rheinland believes that there is a risk or some risks beyond its control to continue to perform the contract, TÜV Rheinland shall be entitled to terminate the contract with written notice to the client. In this case, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist. In this case, the client shall owe 15% of the remuneration to be paid until the end of the fixed contract term. In the case of a lump-sum claim, the client reserves the right to prove that there is no damage or a considerably lower damage. TÜV Rheinland reserves the right to provide a considerably higher damage in individual cases.

16.6 TÜV Rheinland shall be entitled to terminate the contract with written notice if the client has not been able to make use of the time windows for auditing /service provision provided by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

**17. Force Majeure**

17.1 "Force Majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that that Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it could not reasonably have avoided or overcome the event; and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the affected Party.

17.2 In the absence of proof to the contrary, the following events affecting a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 1.1 of this Clause: (i) war (whether declared or not), hostilities, invasion, act of foreign enemies, extensive military mobilization; (ii) civil war, riot, rebellion and revolts; (iii) strikes or other industrial action; (iv) acts of terrorism, sabotage or piracy; (iii) currency and trade restriction, embargo, sanction; (iv) act of authority whether lawful or unlawful, compliance with any law or governmental order; expropriation, seizure of works, requisition, nationalization; (v) plague, epidemic, natural disaster or extreme natural event; (vi) explosion, fire, destruction of equipment, prolonged break-down of transport, telecommunication, information system or energy; (vii) general labor disturbance such as boycott, strike and lock-out; (viii) slow-occupation of territories and premises.

17.3 The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract from any liability in damages or from any other contractual remedy for breach of contract, from the time at which the impediment causes inability to perform, provided that the notice thereof is given without delay. If notice thereof is not given without delay, the relief is effective from the time at which notice thereof reaches the other Party. Where the effect of the impediment or event involved is temporary, the above provisions shall apply only as long as the impediment involved impedes performance of the affected Party. Where the duration of the impediment involved has the effect of substantially depriving the contracting Parties of what they were reasonably entitled to expect under the contract, the affected Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

**18. Hardship**

18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.

18.2 Notwithstanding paragraph 1.1 of this Clause, where a Party proves that:

(a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract; and that

(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are bound, within a reasonable time of the invocation of this Clause, to negotiate alternative contractual terms which reasonably allow to overcome the consequences of the event.

18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract, but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

**19. Partial invalidity, written form, place of jurisdiction and dispute resolution**

19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this clause 17.1.

19.2 Should one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and commercial terms.

19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be the law of the country in which the contract was concluded.

19.4 If TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the law of the People's Republic of China.

19.5 If TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan.

19.6 If TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.

19.7 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be settled friendly through negotiations.

19.8 Unless otherwise stated in the contract, no mediation or no agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:

(a) in the case of TÜV Rheinland in question being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriately chosen by the claiming party;

(b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association (CAA) to be settled in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei;

(c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled in accordance with its then current Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

19.9 The decision of the arbitration tribunal shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.