

Report No.: **158281508a 001**

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Client: DEPESCHE VERTRIEB GMBH & CO. KG

Contact Information: Vierlander Strasse 14, 21502 Geesthacht, Germany

Test item(s): Toy components

**Identification/
Model No(s):** TOPModel Erasable Pen WILD
Item no.: 12850

Order no.: 12850A

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2023-11-24, 2023-12-08

Testing Period: 2023-11-28 to 2023-12-13

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: EU, UK, CH

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

The appropriate age grade of the item(s) : For age over 3 years.

Per client's request, the item(s) was/ were tested for the age of over 3 years.

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

2023-12-21



Wong Yiu Tong, Tommy/
Senior Lab Manager

2023-12-21

Date	Name/Position	Date	Name/Position
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*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.*

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Test Result Summary :

<i>Test Specification:</i>	<i>Test result:</i>
1 EN 71-1:2014+A1:2018 Mechanical and physical properties	PASS
2 2009/48/EC CE marking	PASS
3 2009/48/EC Labeling Requirement (Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)	Refer to result page
4 EN 71-2:2020 Flammability	PASS
5 EN 71-3:2019+A1:2021 Migration of 19 Elements	PASS
6 EN 71 - 9 : 2005 + A1 : 2007; EN 71 - 10 and - 11 : 2005 Table 2B Colorants	PASS
7 EN 71 - 9 : 2005 + A1 : 2007; EN 71 - 10 and - 11 : 2005 Table 2C Primary Aromatic Amines	PASS
8 EN 71 - 9 : 2005 + A1 : 2007; EN 71 - 10 and - 11 : 2005 Table 2H Preservatives (other than wood preservatives)	PASS
9 Total Cadmium Content - according to REACH regulation (EC) No. 1907/2006 Annex XVII Entry 23 and its amendments	PASS
Total Lead Content - REACH Regulation (EC) No. 1907/2006 Annex XVII Entry 63 and its amendments	PASS
10 Depesche requirement: Total Lead Content	PASS
11 Depesche requirement: Phthalates content	PASS
12 Polycyclic aromatic hydrocarbons (PAHs) - REACH regulation (EC) No. 1907/2006 with Amendment No. 552/2009 Annex XVII Item No. 50 and (EU) No.1272/2013	PASS
13 Polycyclic aromatic hydrocarbons (PAHs) - according to GS Specification - AfPS GS 2019:01 PAK	PASS
14 Short Chain Chlorinated Paraffin (C10-C13) (SCCP) - according to Regulation (EU) 2019/1021	PASS
Depesche's requirement: Medium Chain Chlorinated Paraffins (C14 - C17) (MCCP)	PASS
15 Depesche requirement: GC-MS screening for Liquid in Toys	Refer to result page
16 The Toys (Safety) Regulations 2011 of UK, UKCA mark	Refer to result page
17 The Toys (Safety) Regulations 2011 of UK, labelling requirements	Refer to result page
18 ISO 11540: 2021 Writing and marking instruments - Specification for caps to reduce the risk of asphyxiation	PASS

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Material List:

Item: TOPModel Erasable Pen WILD

Item no.: 12850

Order no.: 12850A

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	[#Koala style]-Whole Product;[#Panda style]-Whole Product;[#Zebra style]-Whole Product;[#Leopard style]-Whole Product
M002	Coating	Multicolor	[#Koala style]-On pen cover, pen barrel;[#Panda style]-On pen cover, pen barrel;[#Zebra style]-On pen cover, pen barrel;[#Leopard style]-On pen cover, pen barrel
M003	Ink	Blue	[#Koala style]-Pen ink;[#Panda style]-Pen ink;[#Zebra style]-Pen ink;[#Leopard style]-Pen ink
M004	Plastic	Translucent	[#Koala style]-Eraser;[#Panda style]-Eraser;[#Zebra style]-Eraser;[#Leopard style]-Eraser
M005	Plastic	Pink	[#Koala style]-Pen cover, pen barrel, inner pen tip cap;[#Zebra style]-Ears
M006	Plastic	Purple	[#Koala style]-Ears;[#Panda style]-Pen cover, pen barrel, inner pen tip cap
M007	Plastic	Dark blue	[#Koala style]-Front cap of pen ink tube;[#Panda style]-Front cap of pen ink tube;[#Zebra style]-Front cap of pen ink tube;[#Leopard style]-Front cap of pen ink tube
M008	Plastic	Deep blue	[#Koala style]-Body of pen ink tube;[#Panda style]-Body of pen ink tube;[#Zebra style]-Body of pen ink tube;[#Leopard style]-Body of pen ink tube
M009	Plastic	Translucent	[#Koala style]-End cap of pen ink tube;[#Panda style]-End cap of pen ink tube;[#Zebra style]-End cap of pen ink tube;[#Leopard style]-End cap of pen ink tube
M010	Plastic	Black	[#Panda style]-Ears
M011	Plastic	Pale pink	[#Zebra style]-Pen cover, pen barrel, inner pen tip cap

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M012	Plastic	Light aqua	[#Leopard style]-Pen cover, pen barrel, inner pen tip cap
M013	Plastic	Light pink	[#Leopard style]-Ears
M014	Plastic	Translucent	[#Koala style]-Inner part of pen cover (inaccessible);[#Panda style]-Inner part of pen cover (inaccessible);[#Zebra style]-Inner part of pen cover (inaccessible);[#Leopard style]-Inner part of pen cover (inaccessible)
M015-1	Metal	Silver	[#Koala style]-Pen tip;[#Panda style]-Pen tip;[#Zebra style]-Pen tip;[#Leopard style]-Pen tip
M016	Plastic + coating	Transparent+Multicolor	[#Koala style]-Laminates on paper box (packaging);[#Panda style]-Laminates on paper box (packaging);[#Zebra style]-Laminates on paper box (packaging);[#Leopard style]-Laminates on paper box (packaging)

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

Test No:	T001
Material No:	M001
4. General requirements	
4.1 Material cleanliness	PASS
4.7 Edges	PASS
4.8 Points and metallic wires	PASS
7. Warnings, markings and instructions for use	
7.1 General	PASS
7.2 Toys not intended for children under 36 months	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.

Remark:

** Only the German & English version of the marking and instructions were assessed. 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.

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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(Packaging)
Product Identification - type, batch, serial or model number+	Present(Packaging & Product)
Washing/ Cleaning instruction ^	Not Applicable

Remark:

- + These labeling shall be indicated on the toy, or where that is not possible, on its packaging or in documents accompanying the toys.

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

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

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

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

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

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

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

2) For liquid or sticky toy materials:
Test Result:

Test Parameter	Unit	RL	Test No.	T002
			Material No.	M003
Aluminium (Al)	mg/kg	10	560	< RL
Antimony (Sb)	mg/kg	1	11.3	< RL
Arsenic (As)	mg/kg	0.5	0.9	< RL
Barium (Ba)	mg/kg	2.5	375	< RL
Boron (B)	mg/kg	10	300	< RL
Cadmium (Cd)	mg/kg	0.1	0.3	< RL
Chromium III (Cr(III))	mg/kg	1	9.4	< RL
Chromium VI (Cr(VI))	mg/kg	0.004	0.005	< RL
Cobalt (Co)	mg/kg	0.5	2.6	< RL
Copper (Cu)	mg/kg	2.5	156	< RL
Lead (Pb)	mg/kg	0.4	0.5	< RL
Manganese (Mn)	mg/kg	2.5	300	< RL
Mercury (Hg)	mg/kg	0.5	1.9	< RL
Nickel (Ni)	mg/kg	2.5	18.8	< RL
Selenium (Se)	mg/kg	2.5	9.4	< RL
Strontium (Sr)	mg/kg	2.5	1,125	< RL
Tin (Sn)	mg/kg	0.06	3,750	< RL
Organic Tin^	mg/kg	0.2	0.2	-
Zinc (Zn)	mg/kg	10	938	< RL
Mass of trace amount	mg	--	--	-

Abbreviation: < = less than

RL = Reporting Limit

mg/kg denotes milligram per kilogram

mg denotes milligram

^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (0.067 mg/kg)

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

Test Parameter	Unit	RL	Test No.	T001	T003	T004
			Material No.	M002	M004	M005
Aluminium (Al)	mg/kg	10	28,130	41	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin [^]	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	36	-	-

Abbreviation: < = less than

RL = Reporting Limit

mg/kg denotes milligram per kilogram

mg denotes milligram

[^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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Test Result:

Test Parameter	Unit	RL	Test No.	T005	T006	T007
			Material No.	M006	M007	M008
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin^	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

Abbreviation: < = less than

RL = Reporting Limit

mg/kg denotes milligram per kilogram

mg denotes milligram

^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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Test Result:

Test Parameter	Unit	RL	Test No.	T008	T009	T010
			Material No.	M009	M010	M011
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin^	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	88	-	-

Abbreviation: < = less than

RL = Reporting Limit

mg/kg denotes milligram per kilogram

mg denotes milligram

^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

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Test Result:

Test Parameter	Unit	RL	Test No.	T011	T012
			Material No.	M012	M013
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL
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^	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

^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

Remark:

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

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

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

Test Result:

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

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

NA = Not Applicable

Remark:

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

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

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

NA = Not Applicable

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8.EN 71-9:2005+A1:2007; EN 71-10 and -11:2005 Table 2H Preservatives (other than wood preservatives)

Test Method: EN 71-10 and -11:2005 for Table 2H Preservatives (other than wood preservatives)

Test result

					Test No.	T001
					Material No.	M003
Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Result	
Phenol	108-95-2	mg/kg	10	10 (Action Limit)	< RL	
1,2- Benzylisothiazolin- 3-one	2634-33-5	mg/kg	5	5 (Action Limit)	< RL	
2-Methyl -4-isothiazolin -3-one	2682-20-4	mg/kg	10	10	< RL	
5-Chloro -2-methyl -4-isothiazolin -3- one	26172-55-4	mg/kg	10	10	< RL	
5-Chloro- 2-methyl -4-isothiazolin -3- one + 2-Methyl- 4-isothiazolin - 3-one	Various	mg/kg	15	15	< RL	
Formaldehyde (free)	50-00-0	%	0.05	0.05	< RL	

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

% = percentage

NA = Not Applicable

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9.Total Lead and Cadmium Content

Test Method: Acid digestion, analyzed by ICP-OES

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Test Result
T001	M004	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T002	M005 + M006 + M007	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T003	M008 + M009 + M010	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T004	M011 + M012 + M013	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T005	M014	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL
T007	M015-1	Lead	mg/kg	10	< RL
		Cadmium	mg/kg	10	< RL

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

1% = 10000 mg/kg

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10.Total Lead

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

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Customer's Requirement	Test Result
T001	M004	Lead Content	mg/kg	10	100	< RL
T002	M005 + M006 + M007	Lead Content	mg/kg	10	100	< RL
T003	M008 + M009 + M010	Lead Content	mg/kg	10	100	< RL
T004	M011 + M012 + M013	Lead Content	mg/kg	10	100	< RL
T005	M014	Lead Content	mg/kg	10	100	< RL
T007	M015-1	Lead Content	mg/kg	10	100	< RL

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

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11. Phthalates content

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

Test Result:

Test Parameter	CAS NO	Unit	RL	Test No.	T001	T002	T003
				Material No.	M002	M003	M004
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	< RL	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.005	< RL	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	< RL	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	< RL	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.005	< RL	< RL	< RL	< RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	< RL	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	< RL	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	< RL	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.005	< RL	< RL	< RL	< RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.005	< RL	< RL	< RL	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	< RL	< RL	< RL	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	< RL	< RL	< RL	< RL
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	< RL	< RL	< RL	< RL
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	< RL	< RL	< RL	< RL
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	< 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

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Test No.				T004	T005	T006
Material No.				M005 + M006 + M007	M008 + M009 + M010	M011 + M012 + M013
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	< RL	< RL	< RL
Dibutyl phthalate (DBP)	84-74-2	%	0.005	< RL	< RL	< RL
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	< RL	< RL	< RL
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	< RL	< RL	< RL
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.005	< RL	< RL	< RL
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	< RL	< RL	< RL
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	< RL	< RL	< RL
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	< RL	< RL	< RL
Sum (DINP+ DIDP+ DNOP)	--	%	0.005	< RL	< RL	< RL
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.005	< RL	< RL	< RL
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	< RL	< RL	< RL
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	< RL	< RL	< RL
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	< RL	< RL	< RL
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	< RL	< RL	< RL
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	< 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
				Material No.	M014	M016
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.005	< RL	< RL	
Dibutyl phthalate (DBP)	84-74-2	%	0.005	< RL	< RL	
Benzylbutyl phthalate (BBP)	85-68-7	%	0.005	< RL	< RL	
Diisobutyl phthalate (DIBP)	84-69-5	%	0.005	< RL	< RL	
Sum (DEHP+DBP+BBP+DIBP)	-	%	0.005	< RL	< RL	
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.005	< RL	< RL	
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.005	< RL	< RL	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	< RL	< RL	
Sum (DINP+ DIDP+ DNOP)	--	%	0.005	< RL	< RL	
Di-n-pentyl phthalate (DnPP)	131-18-0	%	0.005	< RL	< RL	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	< RL	< RL	
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	< RL	< RL	
Diisopentyl phthalate (DiPP)	605-50-5	%	0.005	< RL	< RL	
n-Pentyl-isopentyl phthalate	776297-69-9	%	0.005	< RL	< RL	
Di(methoxyethyl) phthalate (DMEP)	117-82-8	%	0.005	< RL	< RL	
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	%	0.01	< RL	< RL	
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%	0.01	< RL	< RL	
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	%	0.01	< RL	< RL	
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	%	0.01	< RL	< RL	
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS No.: 84-75-3)	68515-51-5 68648-93-1	%	0.01	< RL	< RL	
Conclusion: Customer's requirement				Pass	Pass	

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

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Remark:

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

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

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

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12. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: Organic solvent extraction, GCMS

Test No.				T001	T002	T003
Material No.				M004	M005	M006
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< RL	< RL	< RL
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.2	< RL	< RL	< RL
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.2	< RL	< RL	< RL
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.2	< RL	< RL	< RL
Chrysene (CHR)	218-01-9	mg/kg	0.2	< RL	< RL	< RL
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.2	< RL	< RL	< RL

Test No.				T004	T005	T006
Material No.				M010	M011	M012
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< RL	< RL	< RL
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.2	< RL	< RL	< RL
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.2	< RL	< RL	< RL
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.2	< RL	< RL	< RL
Chrysene (CHR)	218-01-9	mg/kg	0.2	< RL	< RL	< RL
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.2	< RL	< RL	< RL

Test No.				T007
Material No.				M013
Test Parameter	CAS NO	Unit	RL	Result
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.2	< RL
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< RL
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.2	< RL
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.2	< RL
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.2	< RL
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.2	< RL
Chrysene (CHR)	218-01-9	mg/kg	0.2	< RL
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.2	< RL

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Abbreviation: < = less than

RL = Reporting Limit

NA = Not Applicable

mg/kg = milligram per kilogram

Remark:

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

Scope	Parameter	Unit	Maximum permissible limit
Articles with direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, made of plastic and rubber shall follow below limit:			
Such articles include amongst others: ---sport equipment such as bicycles, golf clubs, racquets ---household utensils, trolleys, walking frames --- tools for domestic use --- clothing, footwear, gloves and sportswear ---watch-straps, wrist-bands, masks, head-bands	Each of 8 listed PAHs	mg/kg	1
Toys, including activity toys, and childcare articles	Each of 8 listed PAHs	mg/kg	0.5

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

Test Method: AfPS GS 2019:01 PAK

Test Result:

Test No.				T001	T002	T003
Material No.				M004	M005	M006
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Anthracene	120-12-7	mg/kg	0.2	< RL	< RL	< RL
Benzo[a]anthracene	56-55-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< RL	< RL	< RL
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	< RL	< RL	< RL
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	< RL	< RL	< RL
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	< RL	< RL	< RL
Benzo[e]pyrene	192-97-2	mg/kg	0.2	< RL	< RL	< RL
Chrysene	218-01-9	mg/kg	0.2	< RL	< RL	< RL
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	< RL	< RL	< RL
Fluoranthene	206-44-0	mg/kg	0.2	< RL	< RL	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	< RL	< RL	< RL
Naphthalene	91-20-3	mg/kg	0.2	0.6	< RL	< RL
Phenanthrene	85-01-8	mg/kg	0.2	< RL	< RL	< RL
Pyrene	129-00-0	mg/kg	0.2	< RL	< RL	< RL
Sum of, Anthracene, Fluoranthene, Phenanthrene, Pyrene	-	mg/kg	0.2	< RL	< RL	< RL
Sum of 15 PAHs	-	mg/kg	0.2	0.6	< RL	< RL
Category*	-	--	-	1	1	1
Conclusion				PASS	PASS	PASS

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Test No.				T004	T005	T006
Material No.				M010	M011	M012
Test Parameter	CAS NO	Unit	RL	Result	Result	Result
Anthracene	120-12-7	mg/kg	0.2	< RL	< RL	< RL
Benzo[a]anthracene	56-55-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< RL	< RL	< RL
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	< RL	< RL	< RL
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	< RL	< RL	< RL
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	< RL	< RL	< RL
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	< RL	< RL	< RL
Benzo[e]pyrene	192-97-2	mg/kg	0.2	< RL	< RL	< RL
Chrysene	218-01-9	mg/kg	0.2	< RL	< RL	< RL
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	< RL	< RL	< RL
Fluoranthene	206-44-0	mg/kg	0.2	< RL	< RL	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	< RL	< RL	< RL
Naphthalene	91-20-3	mg/kg	0.2	< RL	0.3	< RL
Phenanthrene	85-01-8	mg/kg	0.2	< RL	< RL	< RL
Pyrene	129-00-0	mg/kg	0.2	< RL	< RL	< RL
Sum of, Anthracene, Fluoranthene, Phenanthrene, Pyrene	-	mg/kg	0.2	<RL	<RL	<RL
Sum of 15 PAHs	-	mg/kg	0.2	<RL	0.3	<RL
Category*	-	--	-	1	1	1
Conclusion				PASS	PASS	PASS

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Test No.				T007
Material No.				M013
Test Parameter	CAS NO	Unit	RL	Result
Anthracene	120-12-7	mg/kg	0.2	< RL
Benzo[a]anthracene	56-55-3	mg/kg	0.2	< RL
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< RL
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	< RL
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	< RL
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	< RL
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2	< RL
Benzo[e]pyrene	192-97-2	mg/kg	0.2	< RL
Chrysene	218-01-9	mg/kg	0.2	< RL
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	< RL
Fluoranthene	206-44-0	mg/kg	0.2	< RL
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2	< RL
Naphthalene	91-20-3	mg/kg	0.2	< RL
Phenanthrene	85-01-8	mg/kg	0.2	< RL
Pyrene	129-00-0	mg/kg	0.2	< RL
Sum of, Anthracene, Fluoranthene, Phenanthrene, Pyrene	-	mg/kg	0.2	< RL
Sum of 15 PAHs	-	mg/kg	0.2	< RL
Category*	-	--	-	1
Conclusion				PASS

Abbreviation: < = less than

RL = Reporting Limit

NA = Not Applicable

mg/kg = milligram per kilogram

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Remark:

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

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

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

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

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

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14. Short Chain Chlorinated Paraffin (C10-C13) (SCCP) and Medium Chain Chlorinated Paraffins (C14 - C17) (MCCP)

 Test Method: Leather Materials: ISO 18219:2015
 Non-Leather Materials: CADS method

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Test Result	Conclusion
T001	M004	SCCP	%	0.01	< RL	Pass
		MCCP	%	0.01	< RL	Pass
T002	M014	SCCP	%	0.01	< RL	Pass
		MCCP	%	0.01	< RL	Pass

Abbreviation: < = less than

RL = Reporting Limit

SCCP = Short chain chlorinated paraffins (C₁₀-C₁₃)MCCP = Medium chain chlorinated paraffins (C₁₄-C₁₇)

% = percentage

Remark:

* According to Regulation (EU) 2019/1021 as regards Annex I:

Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	Maximum Permissible Limit
The production, placing on the market and use of articles containing SCCPs	< 0.15% by weight
The production, placing on the market and use of substances or preparations containing SCCPs	< 1% by weight

*1 According to customer's instruction, the maximum permissible limit of Medium Chain Chlorinated Paraffin (MCCP) shall not contain more than 0.1% .

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15.CMR (Cat.1 & Cat.2) Substances in Liquids (Screening)

Test Method: Extraction with Methyl-tert. Butylether (MTBE) 30 mins at 60°C, analysed by GC-MS,
 Semi-quantitative analysis with different deuterated substances as standards. only
 substances with a concentration >2 mg/kg would be considered.

Test Result :

		Test No.:	T001	
		Material No.:	M003	
Substances*	CAS no.	Unit	Result	Remark
4,4'- (Hexafluoroisopropylidene)diphenol	1478-61-1	mg/kg	770	
Diethylhydroxylamine	3710-84-7	mg/kg	1090	
Heptadecane	629-78-7	mg/kg	193	
Total unknown substances		mg/kg	3230	
1H-Benzotriazole	95-14-7	mg/kg	183	
2,4-Imidazolidinedione, 5,5-dimethyl-	77-71-4	mg/kg	144	

Abbreviation: mg/kg = milligram per kilogram

Remark:

* Extractable and detectable under these conditions

** Quantitative by respective standards

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

Test No:	T001
Material No:	M001
UKCA-marking	Present(Packaging)

Remark:

#1 The UK government will continue to recognise the CE marking, therefore businesses can also use the UKCA marking, giving them flexibility to choose which marking to apply.

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17.The Toys (Safety) Regulations 2011 of UK, labelling requirements

Test Result:

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

Test Report No.: 158281508a 001

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18.ISO 11540:2021**Writing and marking instruments - Specification for caps to reduce the risk of asphyxiation****Test Result:**

Test No:	T001
Material No:	M001
4 Requirements	
4.1 General	PASS
4.2 Cap size	PASS
5 Identification	PASS

Test Report No.: 158281508a 001

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Sample Photos



- 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 ("GTCB") is made between the client and one or more member entities of TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China here refers to Mainland China, Hong Kong, Macau, and Taiwan. The GTCB includes:

- (i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract not for the purpose of a daily use;
- (ii) the incorporated or unincorporated, duly organized, validly existent 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 statement or provision in the contract or any annex 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 event of a dispute of an ongoing business relationship with the client, this GTCB 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 contract document being signed by both contracting parties, or upon the works required to be carried out by TÜV Rheinland having been completed in full and paid for 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 via electronic means) and to accept the requested services.

3.2 The contract term is upon the conclusion of the contract in accordance with article 3.1 and shall continue for the term agreed.

3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated 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 contract and the scope of service 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 service to be provided. Unless otherwise agreed, services beyond the scope of the service description (e.g. checking the correctness and functionality of parts, products, procedures, installations, etc.) shall not be provided. The client shall not be entitled to demand the provision and application of such are not owed. 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 contract and passes the examination in accordance with the provision of services for the purposes of developing new services, improving services and analysing the provision of services.

4.2 The receiving party shall only be entitled to perform 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 services to be provided. 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 a simultaneous confirmation of any guarantees of the correctness (product quality) and work content of either delivered or examined parts nor of the installations, components, intermediate or downstream components, organizations 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 materials and assembly of installations, unless these are explicitly agreed in accordance with regulations, unless these are explicitly 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 In the case of inspection work, any legal requirements 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. TÜV Rheinland shall not be liable for any costs resulting from making available of and justifying confidence in the work results (test results, test results, expert reports, etc.) to not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 4.8.

4.8 In the case of inspection work, the client may only be entitled to perform with the contract with TÜV Rheinland, the client may need to sign one or more contracts/agreements with third party(ies) and establish legal relationships with those third party(ies) according to such contractual requirements. TÜV Rheinland is not responsible for any costs resulting from making available of and justifying confidence in the work results (test results, test results, expert reports, etc.) to not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 4.8.

4.9 For the service content 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 be entitled to charge a fee for the services provided during the transport and the transportation process (including but not limited to any losses or damages of the samples and/or the materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. Performance period/dates

5.1 The contractually agreed period/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 confirmed as binding in writing by TÜV Rheinland in writing.

5.2 If binding periods of performance have been agreed, these periods shall not commence until the client has given written confirmation of the same.

5.3 Articles 5.1 and 5.2 also apply, without express agreement by the client, to all extensions of agreed period/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/her obligations in accordance with clause 5.1 and 5.2, 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 specified in the contract.

5.5 The client shall be entitled to terminate the contract 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 require to restore performance.

5.6 If the client is obliged to comply with legal, officially prescribed and/or by the accreditor prescribed deadlines, it is the client's responsibility to agree on performance times with TÜV Rheinland, which enable the client to meet with the deadlines. TÜV Rheinland shall not be liable for any damage assumed no responsibility in the respect, unless TÜV Rheinland expressly agrees 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 requires and warrants that:

- a) the receiving party is not restricted by any applicable laws and regulations;
- b) the product, service or management system to be certified complies with applicable regulations and standards;
- c) it doesn't have any illegal and dishonest behaviours or is not included in the list of Economic Sanctions, Unsanctioned and Delisted Acts of People's Republic of China.

If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to (i) immediately terminate the contract/without prior notice, and (ii) withdraw the issued testing report and/or any other documents.

6.3 The client shall bear any additional cost 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 when 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 applicable law.

7.2 Unless otherwise agreed, work shall be invoiced according to the progress 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 documents and rebates shall be granted.

8.2 Payment 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. TÜV Rheinland is located in Mainland China, Hong Kong, Macau, and Taiwan. TÜV Rheinland reserves the right to claim further damages.

8.4 Should the client refuse to accept the invoice despite being given 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 are increased. In such case, TÜV Rheinland shall be entitled to write off the fees for the first month, notification shall be given in writing prior to the date on which the increase shall come into effect (period of notice of changes in fees). If the rise in fees remains 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. In the contract not terminated, the increased 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 claims by TÜV Rheinland.

8.10 TÜV Rheinland shall have the right at all times to setoff any amount due or payable by the client, including but not limited to setoff against any fees paid 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 ordered which is complete in itself may be presented by TÜV Rheinland for acceptance as an installment. The client shall be obliged to accept it immediately.

9.2 If acceptance is not given or is reluctantly given in an individual case, this shall be deemed to have taken place (2 weeks after the date of work) unless the client releases acceptance acceptance by 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 performed by TÜV Rheinland, the completion of the work shall take its place.

9.5 During the Follow-Up Audit stage, if the client is unable to make use of the time windows provided for with the agreed audit procedure for austere/performer by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones the audit during the two (2) week time window, TÜV Rheinland shall be entitled to withdraw the certificate immediately and to charge a lump-sum amount of 10% of the original fees for expenses for preparation for the audit.

9.6 Insofar as the client has undertaken in the contract to accept to setoff TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above lump sum.

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