

# TEST REPORT

**APPLICANT** : NINGBO FAR EAST IMPORT & EXPORT CO.,LTD.

**ADDRESS** : 4F,BLDGA,HUALOU LANE,NINGBO 315000

**SAMPLE DESCRIPTION** : PEVA and EVA Food Storage Bags

**SUPPLIER** : NINGBO FAR EAST IMPORT & EXPORT CO.,LTD.

**BUYER** : Melii Baby Inc.

**PRODUCT MATERIAL** : PEVA and EVA

**COUNTRY OF PRODUCTION** : China

**COUNTRY OF DESTINATION** : Australia/Can/US/UK/EU

**AGE REQUESTED ON APPLICATION FORM** : 3+

**LABELED AGE GRADE** : Not Present

**AGE GRADE APPLIED IN TESTING** : 3+

**SAMPLE RECEIVED DATE** : 12-Jul-2023

**SAMPLE RESUBMISSION DATE** : 18-Sep-2023

**TURN AROUND TIME** : 12-Jul-2023 to 08-Nov-2023

The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Sensorial Examination Odour and Taste Test	LFGB Section 30, 31 and BfR recommendation	Pass
Overall Migration	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Pass
Specific Migration of Heavy Metal	LFGB Section 30, 31 and BfR recommendation, Regulation (EU) No. 10/2011 and its amendments	Pass
Chloroform-soluble extractives	FDA 21 CFR 177.1350	Pass
Physical and Mechanical Hazards	EN71 Part 1:2014+A1:2018	Pass
Physical and Mechanical Hazards	CPSC Regulations	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	German GS Specification: AfPS GS 2019:01 PAK	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Phthalates Content	CPSC 16 CFR part 1307	Pass
Phthalates Content	US California Proposition 65	Pass
Phthalate Regulations	SOR/2016-188, Phthalate Regulations	Pass
Phthalates Content	REACH Annex XVII, Entry 51 & 52	Pass
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass
Total Cadmium Content	US California Proposition 65	Pass
Total Lead Content	US California Proposition 65	Pass
Total Lead Content	REACH Annex XVII, Entry 63	Pass
Total Lead Content in Substrate	US CPSIA, Section 101	Pass
Total Lead Content in Paint / Surface Coating	US CPSIA, Section 101	Pass
Lead Content	SOR/2018-83, Consumer Products Containing Lead Regulations	Pass
Total Lead Content In Paint and Other Similar Surface Coatings	Illinois Lead Poisoning Prevention Act (LPPA)	Pass
Total Lead Content in Substrate	Illinois Lead Poisoning Prevention Act (LPPA)	Pass
Total Lead and Mercury in Surface Coating	SOR/2016-193, Surface Coating Materials Regulations	Pass
Total Bisphenol A (BPA) Content	US California Proposition 65	Pass
Specific Migration of Acetic Acid, Vinyl Ester	Regulation (EC) No 1935/2004. - Regulation (EU) No 10/2011 and its amendments(Including (EU) No 2020/1245)	Pass
PVC Composition Identification	In House Test Method	See Test Result
Specific Migration of Primary Aromatic Amines	LFGB Section 30 and 31	Pass

*Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [info.hz@eurofins.com](mailto:info.hz@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [chinacomplaint@eurofins.com](mailto:chinacomplaint@eurofins.com) and referring to this report number.*

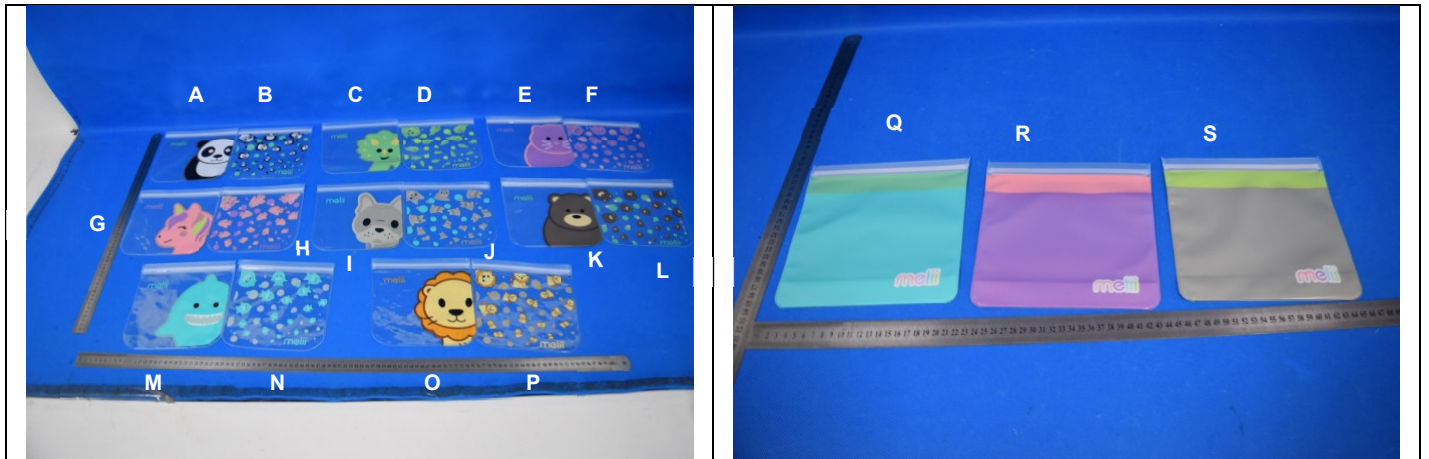
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\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of

Sara Liu  
lab manager

**SAMPLE PHOTO(S)**



**EFHZ23071639-CG-01**

\*\*\*TO BE CONTINUED\*\*\*

## REFERENCE SAMPLE PHOTOS



The reference samples have not been tested in current report, but according to customer's request, the pictures have also been included. For sample tested in current report, please refer to "sample photo".

\*\*\*TO BE CONTINUED\*\*\*

## COMPONENT LIST

Component No.	Component	Sample No.
1	Transparent EVA bag	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P
2	Semi-transparent PEVA bag	Q,R,S
3	Black coating on soft plastic	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S
4	Orange coating on soft plastic	O,P
5	Brown coating on soft plastic	O,P
6	White coating on soft plastic	A,B,E,F,M,N
7	Semi-transparent EVA bag	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Sensorial Examination Odour and Taste Test

Test Request: In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 and BfR recommendation.  
Sensorial examination odour and taste test

Test Method: With reference to DIN 10955:2023  
Odour test condition: 23±2°C, for 24 hours  
Taste test condition: 70°C 2hours  
Test media: Distilled water  
No. of panelist: 6

Test Item(s)	Limit	Result			
		A	B	C	D
Sensorial examination odour (Point scale)	2.5	0.5	0.5	0.5	0.5
Sensorial examination taste (Point scale)	2.5	0.5	0.5	0.5	0.5

Test Item(s)	Limit	Result			
		E	F	G	H
Sensorial examination odour (Point scale)	2.5	0.5	0.5	0.5	0.5
Sensorial examination taste (Point scale)	2.5	0.5	0.5	0.5	0.5

Test Item(s)	Limit	Result			
		I	J	K	L
Sensorial examination odour (Point scale)	2.5	0.5	0.5	0.5	0.5
Sensorial examination taste (Point scale)	2.5	0.5	0.5	0.5	0.5

Test Item(s)	Limit	Result			
		M	N	O	P
Sensorial examination odour (Point scale)	2.5	0.5	0.5	0.5	0.5
Sensorial examination taste (Point scale)	2.5	0.5	0.5	0.5	0.5

Test Item(s)	Limit	Result		
		Q	R	S
Sensorial examination odour (Point scale)	2.5	0.5	0.5	0.5
Sensorial examination taste (Point scale)	2.5	0.5	0.5	0.5

#### Remark:

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Overall Migration

**Test Request:** In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

**Test Method:** With reference to EN1186-1:2002 for selection of conditions and test methods; EN1186-3:2022 overall migration in evaporable simulants by fillable pouch method,

Simulant used	Time	Temperature	Max. Permissible Limit	Result		
				1		
				1 <sup>st</sup> Test	2 <sup>nd</sup> Test	3 <sup>rd</sup> Test
3% Acetic Acid (W/V) Aqueous Solution	10days	40°C	10 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>
10% Ethanol (V/V) Aqueous Solution	10days	40°C	10 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>
95% Ethanol (V/V) Aqueous Solution	10days	40°C	10 mg/dm <sup>2</sup>	4.7 mg/dm <sup>2</sup>	3.9 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>
Isooctane	2days	20°C	10 mg/dm <sup>2</sup>	29.0 mg/dm <sup>2</sup>	12.0 mg/dm <sup>2</sup>	4.6 mg/dm <sup>2</sup>

Simulant used	Time	Temperature	Max. Permissible Limit	Result		
				2		
				1 <sup>st</sup> Test	2 <sup>nd</sup> Test	3 <sup>rd</sup> Test
3% Acetic Acid (W/V) Aqueous Solution	10days	40°C	10 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>
10% Ethanol (V/V) Aqueous Solution	10days	40°C	10 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>
95% Ethanol (V/V) Aqueous Solution	10days	40°C	10 mg/dm <sup>2</sup>	17.4 mg/dm <sup>2</sup>	8.7 mg/dm <sup>2</sup>	4.4 mg/dm <sup>2</sup>
Isooctane	2days	20°C	10 mg/dm <sup>2</sup>	50.7 mg/dm <sup>2</sup>	19.3 mg/dm <sup>2</sup>	8.4 mg/dm <sup>2</sup>

Simulant used	Time	Temperature	Max. Permissible Limit	Result		
				7		
				1 <sup>st</sup> Test	2 <sup>nd</sup> Test	3 <sup>rd</sup> Test
95% Ethanol (V/V) Aqueous Solution	10days	40°C	10 mg/dm <sup>2</sup>	14.0 mg/dm <sup>2</sup>	4.1 mg/dm <sup>2</sup>	<3.0 mg/dm <sup>2</sup>
Isooctane	2days	20°C	10 mg/dm <sup>2</sup>	26.8 mg/dm <sup>2</sup>	11.9 mg/dm <sup>2</sup>	6.5 mg/dm <sup>2</sup>

**Note:**

- (1) mg/dm<sup>2</sup>=milligram per square decimeter
- (2) °C=degree Celsius
- (3) <= less than
- (4) Test condition & simulant were specified by client.

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

### Specific Migration of Heavy Metal

Test Requested: To determine the Specific Migration of Heavy Metal in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation, Commission Regulation (EU) No. 10/2011 and its amendments.

Test Method: With reference to Regulation (EU) 10/2011 for selection of test condition and EN 13130-1:2004 for test preparation method; analysis was performed by ICP-MS.

imulant used : 3% Acetic Acid (W/V) Aqueous Solution

Test condition : 40°C 2hours

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				1		
				1 <sup>st</sup> Test	2 <sup>nd</sup> Test	3 <sup>rd</sup> Test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Test Item(s)	Max. Permissible limit	Unit	MDL	Test Result		
				2		
				1 <sup>st</sup> Test	2 <sup>nd</sup> Test	3 <sup>rd</sup> Test
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.05	ND	ND	ND
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	0.25	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.5	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.05	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Aluminum(Al)	1	mg/kg	0.1	0.3	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Sum of all lanthanide substances	0.05	mg/kg	-	ND	ND	ND

**Remark:**

- (1) mg/kg = milligram per kilogram
- (2) MDL = Method Detection Limit
- (3) ND = Not detected, less than MDL
- (4) Test condition & simulant were specified by client.

\*\*\*TO BE CONTINUED\*\*\*

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### FDA 21 CFR 177.1350-Chloroform-soluble extractives

Test Request: As specified by client, for compliance with the Food and Drug Administration Regulations for determining the amount of net chloroform-soluble extractives (corrected for zinc as zinc oleate if necessary) of Ethylene-vinyl acetate copolymers.

Test method: With reference FDA 21 CFR 176.170.

Simulant Used	Time	Temperature	Max.Permissible Limit (mg/inch <sup>2</sup> )	Detection Limit (mg/inch <sup>2</sup> )	Result	
					1	2
Distilled Water	24 hrs	120°F	0.5	<0.1	ND	ND
50% alcohol	24 hrs	120°F	0.5	<0.1	ND	ND
8% alcohol	24 hrs	120°F	0.5	<0.1	ND	ND
n-heptane	30 min	70°F	0.5	<0.1	0.3	0.2

**Note:**

- mg/inch<sup>2</sup> = milligram per square inch
- °F = degrees Fahrenheit
- ND = Not Detected

**Remark:**

Test condition was specified by client.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Physical and Mechanical Hazards

Test Request: As specified in European Standard on Safety of Toys EN71 Part 1:2014+A1 :2018

Section	Description	Result
4	General requirements	
4.1	Material cleanliness (by visual assessment)	P
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	P
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding Materials	N/A
4.7	Edges	P
4.8	Points and Metallic Wires	P
4.9	Protruding parts	N/A
4.10	Parts moving against each other	
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms.	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys.	N/A
4.14	Enclosures	N/A
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15	Toys intended to bear the mass of a child	
4.15.1	Toys propelled by the child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toys scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectile toy with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.20.2.1	General	N/A
4.20.2.2	Close-to-the-ear toys	N/A
4.20.2.3	Table-top or floor toys	N/A
4.20.2.4	Hand-held toys	N/A
4.20.2.5	Toys using headphones or earphones	N/A
4.20.2.6	Rattles	N/A
4.20.2.7	Squeeze toys	N/A
4.20.2.8	Pull-along or push toys	N/A

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Section	Description	Result
4.20.2.9	Percussion toys	N/A
4.20.2.10	Wind toys	N/A
4.20.2.11	Cap-firing toys	N/A
4.20.2.12	Voice toys	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
4.27.1	General	N/A
4.27.2	Rotors and propellers on flying toys	N/A
4.27.3	Rotors and propellers on remote controlled flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	
7.1	General	N/A
7.2	Toys not intended for children under 36 months	N/A
7.3	Latex Balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional Toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles toys	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teethers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toys bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Section	Description	Result
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toy with electrical cables exceeding 300mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.25.1	Flying toys	N/A
7.25.2	Remote controlled flying toys	N/A
7.26	Improvised projectiles	N/A

**Remark:**

P - Pass

NA - Not Applicable

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Physical and Mechanical Hazards

Test Request: The Mechanical Hazards Requirements of 16 CFR 1500, after Use and Abuse Tests.

Section	Description	Result
16 CFR 1501	Small Parts	N/A
16 CFR 1500.48	Sharp Points	P
16 CFR 1500.49	Sharp Edges	N/A
16 CFR 1510	Rattles	N/A
16 CFR 1511	Pacifier	N/A

#### Remark:

P - Pass

NA - Not Applicable

The use and abuse tests conducted are:

As Received & Normal Use (1500.50)

Impact Test (1500.53(b))

Torque Test (1500.53(e))

Tension Test (1500.53(f))

Compression Test (1500.53(g))

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content according to German GS Specification: AfPS GS 2019:01 PAK

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK

Parameter	CAS No.	Unit	Result	
			1	2
PAHs Category			Category 1	Category 1
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND
Chrysene	218-01-9	mg/kg	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND
Phenanthrene	85-01-8	mg/kg	ND	ND
Anthracene	120-12-7	mg/kg	ND	ND
Fluoranthene	206-44-0	mg/kg	ND	ND
Pyrene	129-00-0	mg/kg	ND	ND
Naphthalene	91-20-3	mg/kg	ND	0.8
Sum of 4 GS PAHS (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	-	mg/kg	ND	ND
Sum of 15 GS PAHs	-	mg/kg	ND	0.8

**Note:**

As per client's request, only the appointed materials have been tested.

mg/kg = milligram per kilogram

ND = not detected, less than 0.2 mg/kg

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

**Table 1**

AfPS GS 2019:01 PAK requirement:

Parameter	Unit	Category 1 Materials intended to be taken into the mouth, or materials in toys acc. to DIR 2009/48/EC or materials in articles intended for the use by children up to 3 years of age having long-term skin contact (more than 30s) within intended use	Category 2 Materials that do not fall into category 1, with long-term skin contact (more than 30s) or repeated short-term skin contact within intended or foreseeable use		Category 3 Materials that do neither fall into category 1 nor 2, with short-term skin contact (up to 30s) within intended or foreseeable use	
			a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene	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(ghi)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
Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	<1 Sum	<5 Sum	<10 Sum	<20 Sum	<50 Sum
Naphthalene	mg/kg	<1	<2		<10	
Sum 15 PAH	mg/kg	<1	<5	<10	<20	<50

In the sum of the 15 PAH, only those PAH components quantified in the material from 0.2 mg/kg are taken into account.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326 amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					1	2
Benzo(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.2	ND	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.2	ND	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND

#### Remarks:

As per client's request, only the appointed materials have been tested.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.

Test Method: CPSC-CH-C1001-09.4

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					1+2
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND
Di-n-pentyl phthalate (DPENP)	131-18-0	%	0.1	0.005	ND
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	0.1	0.005	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.1	0.005	ND
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND
Benzylbutylphthalate (BBP)	85-68-7	%	0.1	0.005	ND

### Remarks:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Phthalates Content as specified in US California Proposition 65

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					1+2
Dibutylphthalate (DBP)	84-74-2	%	0.1	0.005	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.1	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	0.1	0.005	ND
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	0.1	0.005	ND
Phthalic acid, bis-hexyl ester (DnHP)	84-75-3	%	0.1	0.005	ND

### Remarks:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

The limit(s) was/were referred from various court cases.

Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalate Regulations

Test Request: Phthalates Content as specified in Canada Consumer Product Safety Act - Phthalate Regulations, SOR/2016-188.

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C34.2-2018, analysis is performed by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					1+2
Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	0.1	0.005	ND
Di-n-butyl phthalate (DBP)	84-74-2	%	0.1	0.005	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	0.1	0.005	ND
Diisononyl phthalate (DINP)	28553-12-0	%	0.1	0.005	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	0.1	0.005	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.1	0.005	ND

### Remarks:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

DEHP, DBP and BBP are restricted for the vinyl in a toy or child care article.

DINP, DIDP and DNOP are restricted for the vinyl in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					1+2
Dibutylphthalate (DBP)	84-74-2	%	-	0.005	ND
Benzyl butyl phthalate (BBP)	85-68-7	%	-	0.005	ND
Diethylhexylphthalate (DEHP)	117-81-7	%	-	0.005	ND
Di-isobutyl phthalate (DiBP)	84-69-5	%	-	0.005	ND
Sum of (DEHP+DBP+BBP+DiBP)	-	%	0.1	-	ND
Di-n-octylphthalate (DNOP)	117-84-0	%	-	0.005	ND
Diisononyl phthalate (DINP)	28553-12-0	%	-	0.005	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND
Sum (DNOP + DINP + DIDP)	-	%	0.1	-	ND

### Remarks:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

1 mg/kg = 1 ppm = 0.0001%

MDL = method detection limit

ND = Not detected, less than MDL

“- “ = Not Regulated

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996  
 Acid digestion/ microwave digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				1+2	
Total Cadmium	mg/kg	100	5	ND	

Test Item(s)	Unit	Limit	MDL	Result	
				3+4+5	6
Total Cadmium	mg/kg	1000	5	ND	ND

**Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Cadmium Content

Test Request: Total cadmium content as specified in US California Proposition 65

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996

Acid digestion/ microwave digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result		
				1+2	3+4+5	6
Total Cadmium	mg/kg	100	5	ND	ND	ND

#### **Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

The limit(s) was/were referred from various court cases. Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

### Total Lead Content

Test Request: Total lead content as specified in US California Proposition 65  
 Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996  
 Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				1+2	
Total Lead	mg/kg	100	10	ND	

Test Item(s)	Unit	Limit	MDL	Result	
				3+4+5	6
Total Lead	mg/kg	90	10	ND	ND

### **Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

The limit(s) was/were referred from various court cases. Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996  
Acid digestion/ microwave digestion method was used and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result		
				1+2	3+4+5	6
Total Lead	mg/kg	500	10	ND	ND	ND

### **Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3  
The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result
				1+2
Total Lead(Pb)	mg/kg	100	10	ND

#### Remark:

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Paint / Surface Coating

Test Request: Total lead in paint/ similar surface coatings as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1003-09.1

The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				3+4+5	6
Total Lead (Pb)	mg/kg	90	10	ND	ND

#### **Remark:**

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Lead Content

Test Request: Lead content as specified in Canada Consumer Product Safety Act - Consumer Products Containing Lead Regulations, SOR/2018-83.

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.2-2020, Method C02.3.2-2021, Method C02.4.1-2019, Method C08-2014

Test Item(s)	Unit	Limit	MDL	Result		
				1+2	3+4+5	6
Total Lead	mg/kg	90	10	ND	ND	ND
Released Lead	mg/kg	90	5	NA	NA	NA

### **Remark:**

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

NA = Not Applicable

Exception:

Each accessible part may contain more than 90 mg/kg of lead if

a) lead is necessary to produce an essential characteristic of the part;

b) no alternative part containing less lead is available; and

c) the part, when tested in accordance with good laboratory practices, does not release more than 90 mg/kg of lead.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content In Paint and Other Similar Surface Coatings

Test Request: Total lead in paint/ similar surface coatings as specified in Illinois Lead Poisoning Prevention Act

Test Method: CPSC-CH-E1003-09.1  
The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				3+4+5	6
Total Lead (Pb)	mg/kg	40	10	ND	ND

**Remark:**

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Recommend warning which is acceptable per LPPA if below or equal to 90ppm for coating, 100 ppm for substrate. The warning statement shall contain at least the following: "WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. COMPLIES WITH FEDERAL STANDARDS".

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in Illinois Lead Poisoning Prevention Act (LPPA).

Test Method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3

The sample was acid digested, and total lead content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result
				1+2
Total Lead Content in Metal	mg/kg	40	10	ND

#### **Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Recommend warning which is acceptable per LPPA if below or equal to 90ppm for coating, 100 ppm for substrate.

The warning statement shall contain at least the following: "WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. COMPLIES WITH FEDERAL STANDARDS".

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead and Mercury in Surface Coating

Test Request: Total lead and mercury in surface coatings as specified in Canada Consumer Product Safety Act, Surface Coating Materials Regulations, SOR/2016-193

Test Method: With reference to Canada Health Product Safety Bureau, Reference Manual Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.1-2021, Method C07-2019(modified)

Test Item(s)	Unit	Limit	MDL	Result	
				3+4+5	6
Total Mercury	mg/kg	10	1	ND	ND
Total Lead	mg/kg	90	10	ND	ND

**Remark:**

As per client's request, only the appointed materials have been tested.

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

### Total Bisphenol A (BPA) Content

Test Request: BPA content as specified in US California Proposition 65

Test Method: With reference to EPA 3550C:2007, EPA 8321B:2007, solvent extraction and determination by LC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result			
					1	2	3	4
Bisphenol A	80-05-7	mg/kg	ND	0.1	ND	ND	ND	ND

Test Item(s)	CAS No.	Unit	Limit	MDL	Result	
					5	6
Bisphenol A	80-05-7	mg/kg	ND	0.1	ND	ND

**Remarks:**

The limit(s) was/were referred from various court cases. Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Specific Migration of Acetic Acid, Vinyl Ester

Limit according to the Regulation (EU) No 10/2011 and its amendments.

Test condition :

Food simulant	Test duration/temperature
3% Acetic acid	2 hours / 40°C

Testing material No.		1			Detection limit	Limit
Parameter	Unit	Test result				
		Trial I	Trial II	Trial III		
Acetic acid, vinyl ester	mg/kg	N.D.	N.D.	N.D.	2	12

Testing material No.		2			Detection limit	Limit
Parameter	Unit	Test result				
		Trial I	Trial II	Trial III		
Acetic acid, vinyl ester	mg/kg	N.D.	N.D.	N.D.	2	12

Note: - 1 mg/kg = 1 ppm = 0.0001%

- °C = degree Celsius

- N.D. = Not Detected

**The test item is testing in Eurofins Internal laboratory.**

### PVC Composition Identification

In house test method, analysis was performed by FT-IR..

	(1)	(2)
Polyvinyl chloride (PVC)	Negative	Negative

### **Remark:**

Negative = Polyurethane is not detected in the sample.

**The test item is testing in Eurofins Internal laboratory.**

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Specific Migration of Primary Aromatic Amines

Test Request: Specific migration of primary aromatic amines as specified in German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, and BfR recommendation.

Test Method: With reference to EN 13130-1:2004 for sample preparation, analysis was performed by UV-VIS and LC-MS/MS.

Simulant Used: 3% Acetic Acid

Test Condition: 2h at 70° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result					
					1			2		
					1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
1,3-phenylenediamine	108-45-2	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
2-methoxy-5-methylaniline	120-71-8	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
2-naphthylamine	91-59-8	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
3,3-dichlorobenzidine	91-94-1	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
3,3-dimethoxybenzidine	119-90-4	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
3,3-dimethylbenzidine	119-93-7	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4,4-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4,4-methylenedianiline	101-77-9	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4,4-methylenendi-o-toluidine	838-88-0	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4,4-oxydianiline	101-80-4	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4,4-thiodianiline	139-65-1	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4-amino-azobenzene	60-09-3	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4-aminobiphenyl	92-67-1	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4-chloroaniline	106-47-8	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4-methoxy-m-phenylenediamine	615-05-4	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
4-methyl-m-phenylenediamine	95-80-7	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
5-nitro-o-toluidine	99-55-8	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
benzidine	92-87-5	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
o-anisidine	90-04-0	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
o-toluidine	95-53-4	mg/kg	0.002	0.002	ND	ND	ND	ND	ND	ND
Total of other Primary Aromatic Amines	-	mg/kg	0.01	0.01	ND	ND	ND	ND	ND	ND

#### Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Total other primary aromatic amines are 1,4-phenylenediamine (CAS No.: 106-50-3), 2,4-dimethylaniline (CAS No.: 95-68-1), 2,6-dimethylaniline (CAS No.: 87-62-7), aniline (CAS No.: 62-53-3).

**The test item is testing in Eurofins Internal laboratory.**

\*\*\*END OF THE REPORT\*\*\*