Test Report Number: SHAH01565294

Applicant: HANGZHOU TIANYA INDUSTRY CO., LTD Date: May 05, 2023
RM 1004, B1, IBC OF EASTERN HANGZHOU, NO.600 JINSHA RD,
QIANTANG DISTRICT, HANGZHOU, 310018, ZHEJIANG CHINA
Attn: ZENG PINGJIA

Sample Description:
One (1) submitted sample said to be:
Item Name : **(1) Brown Powder (ACID BLUE 40).**

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Tests Conducted:
As requested by the applicant, for details refer to attached page(s).

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To be continued.

Authorized By:
For Intertek Testing Services Ltd., Shanghai

Rainbow Zhang
Deputy General Manager

Intertek Testing Services Ltd., Shanghai
上海天祥质量技术服务有限公司

1-5/F., Block C, No.1218, Wanrong Road, Jingan District, Shanghai, China
上海市静安区万荣路 1218 弄 C 栋 1-5 楼

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Tests Conducted

1 Quinoline and Isoquinoline Content

Solvent extraction and followed by Gas Chromatography– Mass Spectrometry (GC-MS) analysis.

Compounds	Tested Result In mg/kg Tested Component (1)
Quinoline	ND
Isoquinoline	ND

Remark: Detection Limit = 10 mg/kg
ND = Not Detected

2 Orthophehyl phenol (OPP) content

By solvent extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Tested Component	Tested Result (mg/kg) Tested Component (1)
(1)	<0.5

Remark: Detection Limit = 0.5 mg/kg

3 Free Phenol Content

By solvent extraction and then followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Tested Component	Tested Result (mg/kg)
(1)	ND

Remark: Detection Limit = 5 mg/kg
ND = Not Detected

4 Alkylphenol (AP) and Alkylphenol Ethoxylates (APEO) content

With Reference to ISO 18254-1: 2016, By Liquid Chromatographic – Mass Spectrometric (LC-MS) Analysis.

Compounds	Tested Result (mg/kg) Tested Component (1)
Nonylphenol (NP)	ND
Octylphenol (OP)	ND
Nonylphenol Ethoxylate (NPEO)	ND
Octylphenol Ethoxylate (OPEO)	ND

Remark: Detection Limit = 10 mg/kg
ND = Not Detected

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To be continued.

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5 Bisphenol Content

By Liquid Chromatographic - Mass Spectrometry（LC/MS）analysis.

Test Items	CAS No.	Tested Result (mg/kg) Tested Component (1)
Bisphenol A (BPA)	80-05-7	ND
Bisphenol AF (BPAF)	1478-61-1	ND
Bisphenol S (BPS)	80-09-1	ND
Bisphenol F (BPF)	620-92-8	ND

Remark: Detection Limit = 20 mg/kg
ND = Not Detected

6 Free Aromatic Amines content

By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Cas No.	Tested Result (mg/kg) Tested Component (1)
Aniline	62-53-3	N
p-Phenylenediamine	106-50-3	N
o-Aminoazotoluene	97-56-3	N

Remark: N = Not Detected
Detection Limit = 10 mg/kg

7 Polycyclic Aromatic Hydrocarbons (PAHs) Content

As per AfPS GS 2014: 01 PAK, by solvent extraction and determined by Gas Chromatography – Mass Spectrometer (GC/MS).

I. Test Result:

Testing Item	Tested Result (mg/kg) Tested Component (1)
Naphthalene	ND

Remark: ND= Not detected
Detection limit = 0.2 mg/kg

II. Limits for PAH in Products (for reference):

Parameter	Category 1	Category 2		Category 3	
/	To be taken material, which are intended in the mouth,or materials in toys intended and with long-term skin contact (longer than 30 s)	Materials that do not fall into category 1, with foreseeable contact to skin longer than 30 s (long-term skin contact) or short-term repeated skin contact [a)]		Materials that do not fall into category 1 or 2, with foreseeable contact to skin up to 30 s (short-term skin contact)	
/	/	Toys by RL 2009/48/EC	Other products by ProdSG	Toys by RL 2009/48/EC	Other products by ProdSG
Naphthalene	< 1	< 2		< 10	

[a)] Formulation "of repeated short-term skin contact" REACH Annex XVII No. 50 supplement (REGULATION (EU) No 1272/2013)

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8 Detection of Allergenous Dyestuff

With reference to DIN 54231: 2005, by Liquid Chromatography – Tandem Mass Spectrometry (LC-MS/MS) analysis.

Compound	Tested Result (mg/kg) Tested Component (1)
Disperse Blue 1	ND
Disperse Blue 3	ND
Disperse Blue 7	ND
Disperse Blue 26	ND
Disperse Blue 35	ND
Disperse Blue 102	ND
Disperse Blue 106	ND
Disperse Blue 124	ND
Disperse Orange 1	ND
Disperse Orange 3	ND
Disperse Orange 37/76/59	ND
Disperse Red 1	ND
Disperse Red 11	ND
Disperse Red 17	ND
Disperse Yellow 1	ND
Disperse Yellow 3	ND
Disperse Yellow 9	ND
Disperse Yellow 39	ND
Disperse Yellow 49	ND
Disperse Brown 1	ND

Remark: Detection Limit = 50 mg/kg
ND = Not Detected

9 Blue colorants Content

With reference to DIN 54231: 2005, and followed by Liquid Chromatography - Mass Spectrometry (LC-MS) analysis.

Tested Component	Tested Result (mg/kg) Tested Component (1)
C39H23Cl-CrN7012S 2Na (118685-33-9)	ND
C46H-30CrN10020S2 3Na	ND

Remark: Detection Limit = 50mg/kg
ND = Not Detected

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To be continued.

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10 Carcinogenic Dyes Content

With reference to DIN 54231: 2005, By Liquid Chromatography – Tandem Mass Spectrometry (LC-MS-MS) and High Performance Liquid Chromatography Photodiode Array Detector (HPLC-DAD) Analysis.

Compounds	Tested Result (mg/kg) Tested Component (1)	Requirement (mg/kg)
Acid Violet 49	ND	Class I-IV
Basic Blue 26 (with Michler's Ketone>0.1%)	ND	50
Basic Green 4 (Malachite Green Chloride)	ND	50
Basic Green 4 (Malachite Green Oxalate)	ND	50
Basic Green 4 (Malachite Green)	ND	50
Basic Red 9	ND	50
Basic Violet 3 with>0.1% of Michler's Ketone	ND	50
Basic Violet 14	ND	50
Disperse Blue 1	ND	50
Disperse Blue 3	ND	50
Disperse Blue 7	ND	50
Disperse Blue 26	ND	50
Disperse Blue 35	ND	50
Disperse Blue 102	ND	50
Disperse Blue 106	ND	50
Disperse Blue 124	ND	50
Disperse Brown 1	ND	50
Disperse Orange 1	ND	50
Disperse Orange 3	ND	50
Disperse Orange 11	ND	50
Disperse Orange 37/59/76	ND	50
Disperse Orange 61	ND	50
Disperse Orange 149	ND	50
Disperse Red 1	ND	50
Disperse Red 11	ND	50
Disperse Red 17	ND	50
Disperse Yellow 1	ND	50
Disperse Yellow 3	ND	50
Disperse Yellow 9	ND	50
Disperse Yellow 39	ND	50
Disperse Yellow 49	ND	50

Remark: Report limit = 50 mg/kg
ND = Not Detected

With Acid Digestion And Followed By Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

Tested Compounds	Tested Result (mg/kg) Tested Component (1)	Requirement (mg/kg) Class I-IV
Pigment Red 104 Δ	ND	50
Pigment Yellow 34 Δ	ND	50

Remark: Report limit = 50 mg/kg
ND = Not Detected
Δ = Determination was based on elemental analysis and result was calculated based on worst scenario.

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11 Detection of Amines Derived from Azocolourants and Azodyes

By Gas Chromatographic - Mass Spectrometric (GC-MS) and High Performance Liquid Chromatographic (HPLC) analysis.

Test Method: EN ISO 14362-1: 2017/EN ISO 14362-3: 2017 for p-Aminoazobenzene

	Forbidden	CAS No.	Tested Result (ppm) Method T Tested Component (1)
1.	4-Aminodiphenyl	92-67-1	N
2.	Benzidine	92-87-5	N
3.	4-Chloro-o-Toluidine	95-69-2	N
4.	2-Naphthylamine	91-59-8	N
5.	o-Aminoazotoluene	97-56-3	N
6.	2-Amino-4-Nitrotoluene	99-55-8	N
7.	p-Chloroaniline	106-47-8	N
8.	2,4-Diaminoanisole	615-05-4	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N
10.	3,3'-Dichlorobenzidine	91-94-1	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N
12.	3,3'-Dimethylbenzidine	119-93-7	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N
14.	p-Cresidine	120-71-8	N
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	N
16.	4,4'-Oxydianiline	101-80-4	N
17.	4,4'-Thiodianiline	139-65-1	N
18.	o-Toluidine	95-53-4	N
19.	2,4-Toluylenediamine	95-80-7	N
20.	2,4,5-Trimethylaniline	137-17-7	N
21.	o-Anisidine	90-04-0	N
22.	p-Aminoazobenzene	60-09-3	N
23.	2,4-Xylidine	95-68-1	N
24.	2,6-Xylidine	87-62-7	N
25.	Aniline	62-53-3	N
26.	p-Toluidine	108-45-2	N
27.	m-Toluidine	108-44-1	N
28.	4-Chloro-o-toluidinium chloride^	3165-93-3	N
29.	2,4,5-Trimethylaniline hydrochloride^	21436-97-5	N
30.	2-Naphthylammoniumacetate^	553-00-4	N
31.	2,4-Diaminoanisole sulphate^	39156-41-7	N

Remark: N = Not Detected
Detection Limit = 10 ppm
ppm = parts per million = mg/kg
Method T: Direct buffer extraction as per EN ISO 14362-1: 2017 Section 10.2

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12 Total Heavy metal Content

As per client's request, acid digestion method was used and determined by Inductively Coupled Argon Plasma Spectrometry.

Tested element(s)	CAS NO.	Tested Result (mg/kg) Tested Component (1)	Detection Limit (mg/kg)
Total Antimony (Sb)	7440-36-0	ND	10
Total Arsenic (As)	7440-38-2	ND	10
Total Barium (Ba)	7440-39-3	ND	10
Total Cadmium(Cd)	7440-43-9	ND	10
Total Cobalt (Co)	7440-48-4	ND	10
Total Copper (Cu)	7440-50-8	33	10
Chromium(Cr III)	7440-47-3	12	10
Chromium(Cr VI)	18540-29-9	ND	10
Total Iron (Fe)	7439-89-6	76	10
Total Lead(Pb)	7439-92-1	ND	10
Total Nickel (Ni)	7440-02-0	ND	10
Total Mercury(Hg)	7439-97-6	ND	2
Total Selenium (Se)	7482-49-2	ND	10
Total Silver (Ag)	7440-22-4	ND	10
Total Tin (Sn)	7440-31-5	ND	10

Remark: ND = Not Detected

13 Monochlorophenol (MonoCP) content

By KOH extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Compound	Tested Result (mg/kg) Tested Component (1)
2- MonoCP	ND
3- MonoCP	ND
4- MonoCP	ND
Sum	ND

Remark: Detection Limit = 0.5 mg/kg
ND = Not Detected

14 Dichlorophenol (DiCP) content

By KOH extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Compound	Tested Result (mg/kg) Tested Component (1)
2,3- DiCP	ND
2,4- DiCP	ND
2,5- DiCP	ND
2,6- DiCP	ND
3,4- DiCP	ND
3,5- DiCP	ND
Sum	ND

Remark: Detection Limit = 0.5 mg/kg
ND = Not Detected

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To be continued.

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15 Trichlorophenol (TriCP) content

By KOH extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Compound	Tested Result (mg/kg) Tested Component (1)
2,3,4- TriCP	ND
2,3,5- TriCP	ND
2,3,6- TriCP	ND
2,4,5- TriCP	ND
2,4,6- TriCP	ND
3,4,5- TriCP	ND
Sum	ND

Remark: Detection Limit = 0.5 mg/kg
ND = Not Detected

16 Tetrachlorophenol (TeCP) content

By KOH extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Compound	Tested Result (mg/kg) Tested Component (1)
2,3,5,6-TeCP	ND
2,3,4,6-TeCP	ND
2,3,4,5-TeCP	ND
Sum	ND

Remark: Detection Limit = 0.5 mg/kg
ND = Not Detected

17 Pentachlorophenol (PCP) content

By KOH extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Compound	Tested Result (mg/kg) Tested Component (1)
Pentachlorophenol (PCP)	ND

Remark: Detection Limit = 0.5 mg/kg
ND = Not Detected

Tested Components:
(1) Brown Powder (ACID BLUE 40).

Date Sample Received: Apr 25, 2023
Testing Period: Apr 25, 2023 to May 05, 2023

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To be continued.

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Tests Conducted

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End of report.

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