

Test Report

Number: SHAH01784609

Applicant: PF CONCEPT INTERNATIONAL COOPERATIEF U.A
KABELWEG 1
2371 DX ROELOFARENDSEVEEN
THE NETHERLANDS
Attn: Jasmine Gu/Sonia HE

Date: Feb 12, 2025

Sample Description:

Item Name : RPET Bottle with multi-function
Item No. : 10083701, 10083721, 10083751, 10083753, 10083763, 10083790
Vendor : #10522/#12876
Goods Exported To : Europe
Country Of Origin : China
P.O. No. : PO#667580
Date Sample Received : 15 Jan, 2025
Testing Period : 15 Jan, 2025 To 11 Feb, 2025

Tests Conducted:

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

Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested Components of Submitted Sample	European Commission Regulation (EU) No. 10/2011, Amendment No. 2020/1245 and other Amendments and Regulation (EC) No. 1935/2004 - Overall migration	Pass
	Resolution ResAP(2004)5 on silicones used for food contact applications on overall migration .	Pass
	Resolution ResAP(2004)4 on Nitrosamines & Nitrosatable substances in rubber	Pass
	German Food, Commodities and Feed Code (LFGB) and BFR Recommendation XV requirement for Volatile Organic Matter content on silicone rubber	Pass
	German Food, Commodities and Feed Code (LFGB) and BFR Recommendation XV requirement on extractable substances in silicone rubber	Pass
	European Commission Regulation (EU) No. 10/2011 Annex I, Amendment No. 2020/1245 and other Amendments and Regulation (EC) No. 1935/2004 on specific migration of Bisphenol A	Pass

To be continued

Authorized By:
For Intertek Testing Services Ltd., Shanghai



Bill Zhang
General Manager



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<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested Components of Submitted Samples	European Commission Regulation (EU) No 10/2011 Annex II and Amendment (EU) 2016/1416 and (EU) 2017/752 and (EU) 2020/1245 and Regulation (EC) No 1935/2004 on specific migration of heavy metal content	Pass
	European Commission Regulation (EU) No. 10/2011 Annex I, Amendment (EU) 2020/1245, Amendment (EU) 2023/1442 and other Amendments and Regulation (EC) No 1935/2004 on specific migration of Phthalate	Pass
	European Commission Regulation No. 10/2011 Annex I and II and Amendment No. 2020/1245 and Regulation (EC) No. 1935/2004 on specific migration of Primary Aromatic Amines	Pass
	AfPS GS 2019:01 PAK (PAH) on Polycyclic Aromatic Hydrocarbons (PAHs) content	Pass
	Sensory Evaluation	Pass
	European Commission Regulation (EU) No. 10/2011 Annex I, Amendment (EU) 2023/1442 and Regulation (EC) No 1935/2004 on Phthalate content.	Pass
	Applicant`s requirement on Bisphenol-A content	Pass
	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII entry 23 of the REACH Regulation (EC) No. 1907/2006	Pass
	Lead content requirement in Commission Regulation (EU) 2015/628 of 22 April 2015 Amending Annex XVII Entry 63 of the REACH Regulation (EC) No. 1907/2006	Pass
	REACH Regulation (EC) No. 1907/2006 Annex XVII, Entry 51 and Entry 52 & Amendments No. 552/2009 & (EU) 2018/2005 on Phthalates Content	Pass
	Phthalate contents (SVHC substance)	Pass
	Tris (2-Chloroethyl) Phosphate (TCEP) content (SVHC substance)	Pass
	C.I. Basic Violet 3 content (SVHC substance)	Pass

To be continued

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<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested Component Of Submitted Sample	Octamethylcyclotetrasiloxane (D4), Decamethylcyclopentasiloxane (D5) and Dodecamethylcyclohexasiloxane (D6) contents (SVHC substance)	Pass
	Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) requirement in Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass
	European Directive 94/62/EC and Amendments 2004/12/EC & 2005/20/EC & 2013/2/EU on packaging and packaging waste for Toxic Elements Test	Pass
	Dibutylbis(pentane-2,4-dionato-O,O')tin content (SVHC substance)	Pass
	2-methylimidazole content (SVHC substance)	Pass
	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP) content (SVHC substance)	Pass

To be continued

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Tests Conducted

1 Overall Migration Test for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/2011 and its amendments on plastic materials and articles intended to come into contact with food.

I. Test Condition:

Test No.	Time and Temperature
OM3	2 hours at 70 °C

II. Test Results:

Tested Component	Result in mg/dm ²					
	3% (w/v) Acetic Acid			50 % (v/v) Ethanol		
	1 st Migration	2 nd Migration	3 rd Migration	1 st Migration	2 nd Migration	3 rd Migration
(1)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(2)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(3)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(4)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(5)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(6)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(13)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(14)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(15)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(16)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(17)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
(18)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Limit in mg/dm ²	10			10		

Requirement:

Result of 3rd migration < OML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (1)~(6) used to establish the compliance of material or article = 0.8 dm² : 800 mL.

Ratio of food contact surface area to volume of component (13)~(18) used to establish the compliance of material or article = 4.6 dm² : 800 mL.

Remark: As per client's request, the above condition and food simulant were used for the test.

Tested Components: See component list in the last section of this report.

Date Sample Received: Jan.15, 2025

Testing Period: Jan.15, 2025 To Jan.23, 2025

To be continued



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Tests Conducted

2 Overall Migration Test for Silicones Food Contacting Materials/Articles

With reference to EU JRC Guideline of testing conditions for kitchenware articles in contact with foodstuffs: plastics, metals, silicon & rubber, and (EU) No 10/2011 and its amendment.

I. Test Condition:

Test No.	Time and Temperature
OM3	2 hours at 70 °C

II .Test Results:

Tested Component	Result in mg/dm ²					
	3% (w/v) Acetic Acid			50 %(v/v) Ethanol		
	1 st Migration	2 nd Migration	3 rd Migration	1 st Migration	2 nd Migration	3 rd Migration
(19)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Limit in mg/dm ²	10			10		

Ratio of food contact surface area to volume of component (19) used to establish the compliance of material or article = 0.2 dm² : 800 mL.

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

3 Specific Migration of N-nitrosamines and N-nitrosatable Substances

With reference to EU JRC Guideline of testing conditions for kitchenware articles in contact with foodstuffs: plastics, metals, silicon & rubber, (EU) No 10/2011 and its amendments.

I. Test Condition:

Food Simulant	Time	Temperature
50 %(v/v) Ethanol	24 hours	40 °C

II. Test Result:

Test Item	Result (mg/kg)			Detection Limit (mg/kg)	Requirement (mg/kg)
	(19)				
	1 st Migration	2 nd Migration	3 rd Migration		
N-nitrosamines	ND	ND	ND	0.01	ND
N-nitrosatable substances	ND	ND	ND	0.1	ND

Remark: ND = Not Detected (Less than detection limit)

The analytical results were adjusted by subtracting analytical correction factor.

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Tests Conducted

Tested Component(s): See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

4 Volatile Organic Matter of Silicone Rubber

As per BFR Recommendation XV.

I. Test Condition:

Temperature: 200 °C Time: 4 hours

II. Test Result:

<u>Test Item</u>	<u>Result (% w/w)</u>	<u>Reporting Limit</u> <u>(% w/w)</u>	<u>Requirement</u> <u>(% w/w) (Max.)</u>
	(19)		
Volatile Organic Matter (VOM)	0.2	0.1	0.5

Remark: ND = Not detected (Less than the reporting limit)

The cut sample was conditioned at 100 °C for 1 hour to remove sorbed water before treatment at 200 °C for 4 hours.

Tested Component(s): See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

5 Extractable Substances of Silicone Rubber

As per BFR Recommendation XV.

I) Test Condition: Reflux for 5 hours

II) Test Result:

<u>Food Simulant</u>	<u>Result (%)</u>	<u>Reporting Limit</u> <u>(%)</u>	<u>Limit (%)</u>
	(19)		
3% (w/v) Acetic Acid	ND	0.1	0.5
10% (v/v) Ethanol	ND	0.1	0.5
Water	ND	0.1	0.5

Remark: ND = Not detected (Less than the reporting limit)

Tested Component : See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

To be continued

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Tests Conducted

6 Specific Migration of Bisphenol A for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/2011 and its amendments (including amendment No. 2018/213 and amendment No. 2020/1245) on plastic materials and articles intended to come into contact with food. And followed by Liquid Chromatography-Mass Spectrometry (LC-MS) analysis.

I. Test Condition:

Food stimulant : 3% (w/v) acetic acid

Temperature: 40 °C

Time: 24 hours

II. Test Results of Bisphenol A (CAS No. 80-05-7):

Tested Component	Result in mg/kg		
	3% (w/v) acetic acid		
	1 st Migration	2 nd Migration	3 rd Migration
(1)	ND	ND	ND
(2)	ND	ND	ND
(3)	ND	ND	ND
(4)	ND	ND	ND
(5)	ND	ND	ND
(6)	ND	ND	ND
(13)	ND	ND	ND
(14)	ND	ND	ND
(15)	ND	ND	ND
(16)	ND	ND	ND
(17)	ND	ND	ND
(18)	ND	ND	ND
Limit in mg/kg	0.05		

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration $\geq$ 2nd migration $\geq$ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (1)~(6) used to establish the compliance of material or article = 0.8 dm² : 800 mL.

Ratio of food contact surface area to volume of component (13)~(18) used to establish the compliance of material or article = 4.6 dm² : 800 mL.

Remark: Report limit=0.01mg/kg

ND=Not detected (less than report limit)

As per client's request, the above condition and food stimulant were used for the test.

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Tests Conducted

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

7 Specific Migration of Heavy Metal

As per Commission Regulation (EU) No.10/2011 and its amendments.

I. Test Condition:

Food Simulant: 3% (w/v) Acetic acid

Temperature: 40 °C

Time: 24 hours

II. Test Result:

Test Component : (1),(2),(3),(4),(5),(6),(13),(14),(15),(16),(17),(18)					
Element	Result (mg/kg)			Detection Limit (mg/kg)	Limit (mg/kg)
	1 st migration	2 nd migration	3 rd migration		
Aluminum (Al)	ND	ND	ND	0.1	1
Antimony (Sb)	ND	ND	ND	0.01	0.04
Arsenic (As)	ND	ND	ND	0.01	ND
Barium (Ba)	ND	ND	ND	0.1	1
Cadmium (Cd)	ND	ND	ND	0.002	ND
Chromium (Cr)	ND	ND	ND	0.01	ND
Cobalt (Co)	ND	ND	ND	0.03	0.05
Copper (Cu)	ND	ND	ND	1	5
Iron (Fe)	ND	ND	ND	5	48
Lead (Pb)	ND	ND	ND	0.01	ND
Lithium (Li)	ND	ND	ND	0.1	0.6
Manganese (Mn)	ND	ND	ND	0.1	0.6
Mercury (Hg)	ND	ND	ND	0.01	ND
Nickel (Ni)	ND	ND	ND	0.01	0.02
Zinc (Zn)	ND	ND	ND	1	5
Europium (Eu)	ND	ND	ND	0.01	0.05
Gadolinium (Gd)	ND	ND	ND	0.01	0.05
Lanthanum (La)	ND	ND	ND	0.01	0.05
Terbium (Tb)	ND	ND	ND	0.01	0.05
Sum of (Eu, Gd, La, Tb)	ND	ND	ND	0.04	0.05

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration $\geq$ 2nd migration $\geq$ 3rd migration after consideration of result uncertainty.

Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

Ratio of food contact surface area to volume of component (1)~(6) used to establish the compliance of material or article = 0.8 dm² : 800 mL.

Ratio of food contact surface area to volume of component (13)~(18) used to establish the compliance of material or article = 4.6 dm² : 800 mL.

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Remark: ND = Not detected(Less than detection limit)

As per client's request, the above condition and food simulant were used for the test.

Tested Component(s) : See component list in last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

8 Specific Migration of Phthalates Test for Plastic Food Contacting Materials/Articles

As per Commission Regulation (EU) No. 10/ 2011 of 14 January 2011 and its amendments on plastic materials and articles intended to come into contact with food.

I. Test Condition:

<u>Food Simulant</u>	<u>Time and Temperature</u>
50% (v/v) Ethanol	24 hours at 40 °C

II. Test Results:

Butyl Benzy Phthalate (BBP)(CAS No.85-68-7)

<u>Tested Component</u>	<u>Result in mg/kg</u>		
	<u>50% (v/v) Ethanol</u>		
	<u>1st Migration</u>	<u>2nd Migration</u>	<u>3rd Migration</u>
(1)	<1	<1	<1
(2)	<1	<1	<1
(3)	<1	<1	<1
(4)	<1	<1	<1
(5)	<1	<1	<1
(6)	<1	<1	<1
(13)	<1	<1	<1
(14)	<1	<1	<1
(15)	<1	<1	<1
(16)	<1	<1	<1
(17)	<1	<1	<1
(18)	<1	<1	<1
Limit in mg/kg	6		

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Tests Conducted

Bis (2-Ethylhexyl) Phthalate (DEHP)(CAS No.117-81-7)

Tested Component	Result in mg/kg		
	50% (v/v) Ethanol		
	1 st Migration	2 nd Migration	3 rd Migration
(1)	<0.5	<0.5	<0.5
(2)	<0.5	<0.5	<0.5
(3)	<0.5	<0.5	<0.5
(4)	<0.5	<0.5	<0.5
(5)	<0.5	<0.5	<0.5
(6)	<0.5	<0.5	<0.5
(13)	<0.5	<0.5	<0.5
(14)	<0.5	<0.5	<0.5
(15)	<0.5	<0.5	<0.5
(16)	<0.5	<0.5	<0.5
(17)	<0.5	<0.5	<0.5
(18)	<0.5	<0.5	<0.5
Limit in mg/kg	0.6		

Dibutyl Phthalate (DBP) (CAS No.87-74-2)

Tested Component	Result in mg/kg		
	50% (v/v) Ethanol		
	1 st Migration	2 nd Migration	3 rd Migration
(1)	<0.1	<0.1	<0.1
(2)	<0.1	<0.1	<0.1
(3)	<0.1	<0.1	<0.1
(4)	<0.1	<0.1	<0.1
(5)	<0.1	<0.1	<0.1
(6)	<0.1	<0.1	<0.1
(13)	<0.1	<0.1	<0.1
(14)	<0.1	<0.1	<0.1
(15)	<0.1	<0.1	<0.1
(16)	<0.1	<0.1	<0.1
(17)	<0.1	<0.1	<0.1
(18)	<0.1	<0.1	<0.1
Limit in mg/kg	0.12		

To be continued



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Tests Conducted

Di-(Iso-Nonyl) Phthalate (DINP)(CAS No. 84-74-2) and Di-(Iso-Decyl) Phthalate (DIDP)(CAS No.26761-40-0)

Tested Component	Result in mg/kg		
	50% (v/v) Ethanol		
	1 st Migration	2 nd Migration	3 rd Migration
(1)	<1	<1	<1
(2)	<1	<1	<1
(3)	<1	<1	<1
(4)	<1	<1	<1
(5)	<1	<1	<1
(6)	<1	<1	<1
(13)	<1	<1	<1
(14)	<1	<1	<1
(15)	<1	<1	<1
(16)	<1	<1	<1
(17)	<1	<1	<1
(18)	<1	<1	<1
Limit in mg/kg	1.8		

Diallyl Phthalate (DAP)(CAS No. 131-17-9)

Tested Component	Result in mg/kg		
	50% (v/v) Ethanol		
	1 st Migration	2 nd Migration	3 rd Migration
(1)	ND	ND	ND
(2)	ND	ND	ND
(3)	ND	ND	ND
(4)	ND	ND	ND
(5)	ND	ND	ND
(6)	ND	ND	ND
(13)	ND	ND	ND
(14)	ND	ND	ND
(15)	ND	ND	ND
(16)	ND	ND	ND
(17)	ND	ND	ND
(18)	ND	ND	ND
Limit in mg/kg	ND		

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Tests Conducted

Sum of DBP, DIBP, BBP and DEHP (Expressed as DEHP)

Tested Component	Result in mg/kg		
	50% (v/v) Ethanol		
	1 st Migration	2 nd Migration	3 rd Migration
(1)	<0.5	<0.5	<0.5
(2)	<0.5	<0.5	<0.5
(3)	<0.5	<0.5	<0.5
(4)	<0.5	<0.5	<0.5
(5)	<0.5	<0.5	<0.5
(6)	<0.5	<0.5	<0.5
(13)	<0.5	<0.5	<0.5
(14)	<0.5	<0.5	<0.5
(15)	<0.5	<0.5	<0.5
(16)	<0.5	<0.5	<0.5
(17)	<0.5	<0.5	<0.5
(18)	<0.5	<0.5	<0.5
Limit in mg/kg	0.6		

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration ≥ 2nd migration ≥ 3rd migration after consideration of result uncertainty.

Ratio of food contact surface area to volume of component (1)~(6) used to establish the compliance of material or article = 0.8 dm² : 800 mL.

Ratio of food contact surface area to volume of component (13)~(18) used to establish the compliance of material or article = 4.6 dm² : 800 mL.

Remark: ND = Not Detected

Detection Limit of DAP=0.01mg/kg

For sum of DBP, DIBP, BBP and DEHP (Expressed as DEHP), below equation was used:

Sum = DBP x 5+ DIBP x 4 + BBP x 0.1 + DEHP x 1

As per client's request, the above condition and food simulant were used for the test.

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Feb.5, 2025

To be continued



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Tests Conducted

9 Specific Migration of Primary Aromatic Amines

With reference to Commission Regulation (EU) No. 10/2011 and its amendments, and JRC Technical Guidelines EUR 24815 EN 2011.

- I. Test condition:
Food simulant: 3% (w/v) Acetic acid
Temperature: 40 °C Time: 24 hours

II. Test Result:

Test Component: (1),(2),(3),(4),(5),(6),(13),(14),(15),(16),(17),(18), (19)							
Test Item	CAS No.	Result (mg/kg)			Detection Limit (mg/kg)	Limit (mg/kg)	
		1 st migration	2 nd migration	3 rd migration			
1	4-Aminodiphenyl	92-67-1	ND	ND	ND	0.002	ND
2	Benzidine	92-87-5	ND	ND	ND	0.002	ND
3	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND	0.002	ND
4	2-Naphthylamine	91-59-8	ND	ND	ND	0.002	ND
5	o-Aminoazotoluene	97-56-3	ND	ND	ND	0.002	ND
6	2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND	0.002	ND
7	p-Chloroaniline	106-47-8	ND	ND	ND	0.002	ND
8	2,4-Diaminoanisole	615-05-4	ND	ND	ND	0.002	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND	0.002	ND
10	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND	0.002	ND
11	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND	0.002	ND
12	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND	0.002	ND
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND	0.002	ND
14	p-Cresidine	120-71-8	ND	ND	ND	0.002	ND
15	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	ND	ND	0.002	ND
16	4,4'-Oxydianiline	101-80-4	ND	ND	ND	0.002	ND
17	4,4'-Thiodianiline	139-65-1	ND	ND	ND	0.002	ND
18	o-Toluidine	95-53-4	ND	ND	ND	0.002	ND
19	2,4-Toluylenediamine	95-80-7	ND	ND	ND	0.002	ND
20	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND	0.002	ND
21	o-Anisidine	90-04-0	ND	ND	ND	0.002	ND
22	4-Aminoazobenzene	60-09-3	ND	ND	ND	0.002	ND
23	m-Phenylenediamine	108-45-2	ND	ND	ND	0.002	ND
24	Benzoguanamin	91-76-9	ND	ND	ND	0.05	5
25	4,4'-Methylenebis(3-chloro-2,6-diethylaniline)	106246-33-7	ND	ND	ND	0.01	0.05
26	Total of other primary aromatic amine	-	ND	ND	ND	0.01	0.01

To be continued



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Tests Conducted

Requirement:

Result of 3rd migration < SML, and

Result of 1st migration $\geq$ 2nd migration $\geq$ 3rd migration after consideration of result uncertainty.

Result of 1st, 2nd and 3rd migration < SML when SML limit is Not Detected (ND)

Ratio of food contact surface area to volume of component (1)~(6) used to establish the compliance of material or article = 0.8 dm² : 800 mL.

Ratio of food contact surface area to volume of component (13)~(18) used to establish the compliance of material or article = 4.6 dm² : 800 mL.

Ratio of food contact surface area to volume of component (19) used to establish the compliance of material or article = 0.2 dm² : 800 mL.

Remark: ND = Not detected (less than detection limit)

Other primary aromatic amines are p-Phenyldiamine, Aniline, 2,4-Xylidine, 2,6-Xylidine, 3-Methoxyaniline, 2,6- Toluene-diamine, 1,5-Diaminonaphthalene, 4-Ethoxyaniline, 3-Amino-4-methoxybenzanilide, 3-Amino-4-methylbenzamide, 2-Amino-5-methylbenzoic acid

Tested component(s) : See component list in last section of the report.

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Tests Conducted

10 Polycyclic Aromatic Hydrocarbons (PAHs) Content

As Per AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatography – Mass Spectrometer (GC/MS).

(I) Test Results:

Test Item	CAS No.	Result (in mg/kg)					
		(1)	(2)	(3)	(4)	(5)	(6)
1.Phenanthrene	85-01-8	ND	ND	ND	ND	ND	ND
2.Anthracene	120-12-7	ND	ND	ND	ND	ND	ND
3.Fluoranthene	206-44-0	ND	ND	ND	ND	ND	ND
4.Pyrene	129-00-0	ND	ND	ND	ND	ND	ND
Sum (4 PAHs):	--	ND	ND	ND	ND	ND	ND
5.Naphthalene	91-20-3	ND	ND	ND	ND	ND	ND
6.Benzo(a)Anthracene	56-55-3	ND	ND	ND	ND	ND	ND
7.Chrysene	218-01-9	ND	ND	ND	ND	ND	ND
8.Indeno(1,2,3-cd)Pyrene	193-39-5	ND	ND	ND	ND	ND	ND
9.Benzo(b)Fluoranthene	205-99-2	ND	ND	ND	ND	ND	ND
10.Benzo(k)Fluoranthene	207-08-9	ND	ND	ND	ND	ND	ND
11.Benzo(a)Pyrene	50-32-8	ND	ND	ND	ND	ND	ND
12.Dibenzo(a,h)Anthracene	53-70-3	ND	ND	ND	ND	ND	ND
13.Benzo(g,h,i)Perylene	191-24-2	ND	ND	ND	ND	ND	ND
14.Benzo(e)Pyrene	192-97-2	ND	ND	ND	ND	ND	ND
15. Benzo(j)Fluoranthene	205-82-3	ND	ND	ND	ND	ND	ND
Sum (15 PAHs):	--	ND	ND	ND	ND	ND	ND
Classification of Samples: Category		1	1	1	1	1	1

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

Test Item	CAS No.	Result (in mg/kg)					
		(13)	(14)	(15)	(16)	(17)	(18)
1.Phenanthrene	85-01-8	ND	ND	ND	ND	ND	ND
2.Anthracene	120-12-7	ND	ND	ND	ND	ND	ND
3.Fluoranthene	206-44-0	ND	ND	ND	ND	ND	ND
4.Pyrene	129-00-0	ND	ND	ND	ND	ND	ND
Sum (4 PAHs):	--	ND	ND	ND	ND	ND	ND
5.Naphthalene	91-20-3	ND	ND	ND	ND	ND	ND
6.Benzo(a)Anthracene	56-55-3	ND	ND	ND	ND	ND	ND
7.Chrysene	218-01-9	ND	ND	ND	ND	ND	ND
8.Indeno(1,2,3-cd)Pyrene	193-39-5	ND	ND	ND	ND	ND	ND
9.Benzo(b)Fluoranthene	205-99-2	ND	ND	ND	ND	ND	ND
10.Benzo(k)Fluoranthene	207-08-9	ND	ND	ND	ND	ND	ND
11.Benzo(a)Pyrene	50-32-8	ND	ND	ND	ND	ND	ND
12.Dibenzo(a,h)Anthracene	53-70-3	ND	ND	ND	ND	ND	ND
13.Benzo(g,h,i)Perylene	191-24-2	ND	ND	ND	ND	ND	ND
14.Benzo(e)Pyrene	192-97-2	ND	ND	ND	ND	ND	ND
15. Benzo(j)Fluoranthene	205-82-3	ND	ND	ND	ND	ND	ND
Sum (15 PAHs):	--	ND	ND	ND	ND	ND	ND
Classification of Samples: Category		1	1	1	1	1	1

ND= Not detected (Less than reporting limit)

Reporting limit = 0.2 mg/kg

= Category was provided by the applicant.

To be continued



Test Report

Number: SHAH01784609

Tests Conducted
(II) Limits for PAHs in Products:

Parameter	Category 1	Category 2		Category 3	
--	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use - in toys according to Directive 2009/48/EC or - for the use by children up to 3 years of age	Materials that are not covered by Category 1, with long-term skin contact (longer than 30s) or repeated short-term skin contact if used as intended or foreseeable 2a. used by children 2b. other consumer products		Materials that are not covered by Category 1 or 2, with short-term skin contact (up to 30 s) when used as intended or foreseeable 3a. used by children 3b. other consumer products	
		2a	2b	3a	3b
Phenanthrene	--	--	--	--	--
Anthracene	--	--	--	--	--
Fluoranthene	--	--	--	--	--
Pyrene	--	--	--	--	--
Sum (4 PAHs):	<1	<5	<10	<20	<50
Naphthalene	<1	<2	<2	<10	<10
Benzo(a)Anthracene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)Anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)Perylene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)Fluoranthene	<0.2	<0.2	< 0.5	<0.5	<1
Sum (15 PAHs):	<1	<5	<10	<20	<50

Tested Component(s): See component list in the last section of this report

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.20, 2025

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

11 Sensory Evaluation

With reference to §64 LFGB I00.90-6.

Test procedure:

Sample was thoroughly rinsed with distilled water and then filled with distilled water to capacity. Filled sample was kept at ambient temperature 40 °C for 24 hours. Off-odor and off-taste was evaluated with 6 panelists using control sample of distilled water.

	<u>Result</u>	<u>Limit</u>
	(22)	
Appearance	Clear, Colourless	Clear, Colourless
Odor	0	2.5
Taste	0	2.5

Assessment:

Intensity scale:

0 = No perceptible odour / taste

1 = Odour / taste just perceptible (but still difficult to define)

2 = Slight odour / taste

3 = Distinct odour / taste

4 = Strong odour / taste

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

12 Phthalate Content in Food Contact Plastic Article

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

Test Item	Result (% w/w)		Detection Limit (% w/w)	Limit (% w/w) (Max.)
	(1+2+3)	(4+5+6)		
Dibutyl Phthalate (DBP)	ND	ND	0.01	0.05
Diethyl Hexyl Phthalate (DEHP)	ND	ND	0.01	0.1
Benzyl Butyl Phthalate (BBP)	ND	ND	0.01	0.1
Di-(iso-nonyl) Phthalate (DINP)	ND	ND	0.01	0.1
Di-(iso-decyl) Phthalate (DIDP)	ND	ND	0.01	0.1

Test Item	Result (% w/w)		Detection Limit (% w/w)	Limit (% w/w) (Max.)
	(13+14+15)	(16+17+18)		
Dibutyl Phthalate (DBP)	ND	ND	0.01	0.05
Diethyl Hexyl Phthalate (DEHP)	ND	ND	0.01	0.1
Benzyl Butyl Phthalate (BBP)	ND	ND	0.01	0.1
Di-(iso-nonyl) Phthalate (DINP)	ND	ND	0.01	0.1
Di-(iso-decyl) Phthalate (DIDP)	ND	ND	0.01	0.1

Remark: ND = Not Detected (Less than detection limit)

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.19, 2025

13 Bisphenol-A Content

By solvent extraction and followed by High Performance Liquid Chromatography- Mass Spectrometry (HPLC-MS)/Liquid Chromatography- Tandem Mass Spectrometry (LC-MS/MS) analysis.

Test Item	Result (mg/kg)						Detection Limit (mg/kg)	Applicant's Requirement (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)		
Bisphenol-A	ND	ND	ND	ND	ND	ND	0.1	0.1

Test Item	Result (mg/kg)						Detection Limit (mg/kg)	Applicant's Requirement (mg/kg)
	(13)	(14)	(15)	(16)	(17)	(18)		
Bisphenol-A	ND	ND	ND	ND	ND	ND	0.1	0.1

Remark: ND = Not Detected (Less than detection limit)

Tested Components: See component list in the last section of this report.

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

Testing Summary:

Extraction solvent: Tetrahydrofuran
Ultrasonic bath extraction temperature: 60 °C ± 2 °C
Extraction time: 60 minutes

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.23, 2025

14 Cadmium (Cd) Content (EU REACH ANNEX XVII Entry 23)

With reference to methods EN 1122 (Method B)/ IEC 62321:2008/ ISO 11885:2007, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result in %</u>
(1+2+3)	ND
(4+5+6)	ND
(7+8+9)	ND
(10+11+12)	ND
(13+14+15)	ND
(16+17+18)	ND
(19)	ND

Requirement:	
<u>Category</u>	<u>Limit (%)</u>
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

Remark: ND = Not detected (<0.0005%)

Tested Components: See component list in the last section of this report.

Date Sample Received: Jan.15, 2025

Testing Period: Jan.15, 2025 To Jan.20, 2025

To be continued

Test Report

Number: SHAH01784609

Tests Conducted

15 Lead (Pb) Content (REACH Regulation (EC) No 1907/2006 Annex XVII Entry 63)

With reference to method IEC 62321-5:2013, microwave digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (%)			Reporting Limit (%)	Limit (%)
	(1+2+3)	(4+5+6)	(7+8+9)		
Lead (Pb)	ND	ND	ND	0.001	0.05

Test Item	Result (%)		Reporting Limit (%)	Limit (%)
	(10+11+12)	(13+14+15)		
Lead (Pb)	ND	ND	0.001	0.05

Test Item	Result (%)		Reporting Limit (%)	Limit (%)
	(16+17+18)	(19)		
Lead (Pb)	ND	ND	0.001	0.05

The limit was quoted according to Commission Regulation (EU) 2015/628 amending the REACH Regulation (EC) No 1907/2006 Annex XVII (Entry 63) for Lead content in articles which may be placed in the mouth by children during normal or reasonably foreseeable conditions of use.

Remark: ND = Not detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.20, 2025

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

- 16 REACH Regulation (EC) No. 1907/2006 Annex XVII Entry 51 and Entry 52 & Amendments No. 552/2009 & (EU) 2018/2005 on Phthalates Content

With reference to ISO 8124-6: 2023 method A or C, followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Entry 51

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
		(19)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1

The above limit was quoted according to Annex XVII Entry 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for Phthalate content in articles.

II. Annex XVII Entry 52

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
		(19)		
Di-n-octyl phthalate (DnOP)	117-84-0	ND	0.005	--
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.005	--
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

The above limit was quoted according to Annex XVII Entry 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for Phthalate content in toys and childcare articles.

Remark: ND = Not detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.19, 2025

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

17 Phthalates Content (In SVHC List)

By solvent extraction and followed by Gas Chromatography – Mass Spectrometry analysis.

Test Item	CAS No.	Result (%)
Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	(19) ND
Dibutyl Phthalate (DBP)	84-74-2	ND
Benzyl Butyl Phthalate (BBP)	85-68-7	ND
Diisobutyl Phthalate (DIBP)	84-69-5	ND
1,2-Benzenedicarboxylic acid, di-C ₇₋₁₁ - branched and linear alkyl esters (DHNUP)	68515-42-4	ND
1,2-Benzenedicarboxylic acid, di-C ₆₋₈ - branched alkyl esters, C ₇ -rich (DIHP)	71888-89-6	ND
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND
Diisopentylphthalate (DIPP)	605-50-5	ND
N-pentyl-isopentylphthalate	776297-69-9	ND
Dipentyl phthalate (DPP)	131-18-0	ND
Dihexyl phthalate	84-75-3	ND
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND
1,2-Benzenedicarboxylic acid, di-C ₆₋₁₀ - alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	ND
Dicyclohexyl phthalate (DCHP)	84-61-7	ND
Diisohexyl phthalate	71850-09-4	ND

Remark: Reporting limit=0.010%

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Reporting limit = Quantitation limit of analyte in sample

Notes:

1. Substances of very high concern (SVHC) are classified as:

- Carcinogenicity category 1A or 1B;
- Germ cell mutagenicity category 1A or 1B;
- Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
- Persistent, bioaccumulative and toxic (PBT)
- Very persistent and very bioaccumulative (vPvB)
- Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disrupters

To be continued



Test Report

Number: SHAH01784609

Tests Conducted
REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- (a) Identity and contact details of the producer or importer;
- (b) Registration number(s), if available;
- (c) Identity of the substance;
- (d) Classification of the substance(s);
- (e) Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- (f) Tonnage range of the substance(s).

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Waste Framework Directive (WFD) Requirement:

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.

Tested Component(s): See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.19, 2025

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

18 Tris (2-Chloroethyl) Phosphate (TCEP) Content

By solvent extraction and followed by Liquid Chromatography - Mass Spectrometry analysis.

Test Item	CAS No.	Result (%)
		(19)
Tris (2-Chloroethyl) Phosphate	115-96-8	ND

Remark: Reporting limit=0.010%

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Reporting limit = Quantitation limit of analyte in sample

Notes:

1. Substances of very high concern (SVHC) are classified as:

- Carcinogenicity category 1A or 1B;
- Germ cell mutagenicity category 1A or 1B;
- Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
- Persistent, bioaccumulative and toxic (PBT)
- Very persistent and very bioaccumulative (vPvB)
- Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disruptors

REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- Identity and contact details of the producer or importer;
- Registration number(s), if available;
- Identity of the substance;
- Classification of the substance(s);
- Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- Tonnage range of the substance(s).

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Waste Framework Directive (WFD) Requirement:

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.

Tested Component(s): See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.21, 2025

19 C.I. Basic Violet 3 Content

By solvent extraction and determined by Liquid Chromatography with Tandem Mass Spectrometry (LC-MS-MS).

Test Item	Result (%. w/w)
	(19)
[4-[4,4'-Bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]-dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq 0.1\%$ of Michler's ketone or Michler's base]	ND

Remark: ND = Not detected (Less than reporting limit)
Reporting limit = 0.01%

REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- Identity and contact details of the producer or importer;
- Registration number(s), if available;
- Identity of the substance;
- Classification of the substance(s);
- Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- Tonnage range of the substance(s).

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass
Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.21, 2025

**20 Octamethylcyclotetrasiloxane (D4),Decamethylcyclopentasiloxane(D5) and Dodecamethylcyclohexasiloxane (D6)
Content**

By solvent extraction and followed by Gas Chromatography – Mass Spectrometry analysis.

Test Item	CAS No.	Result (%)
		(19)
Octamethylcyclotetrasiloxane (D4)	556-67-2	ND
Decamethylcyclopentasiloxane (D5)	541-02-6	ND
Dodecamethylcyclohexasiloxane (D6)	540-97-6	ND

Remark: Reporting limit=0.010%

SVHC = Substance of very high concern

ND = Not detected (the result is less than the reporting limit)

Notes:

1. Substances of very high concern (SVHC) are classified as:

- Carcinogenicity category 1A or 1B;
- Germ cell mutagenicity category 1A or 1B;
- Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;
- Persistent, bioaccumulative and toxic (PBT)
- Very persistent and very bioaccumulative (vPvB)
- Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disruptors

To be continued



Test Report

Number: SHAH01784609

Tests Conducted
REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- (a) Identity and contact details of the producer or importer;
- (b) Registration number(s), if available;
- (c) Identity of the substance;
- (d) Classification of the substance(s);
- (e) Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- (f) Tonnage range of the substance(s).

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Waste Framework Directive (WFD) Requirement:

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.

Tested Component(s): See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.20, 2025

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

21 Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) Content

By solvent extraction, determined by Gas Chromatography-Electron Capture Detector (GC-ECD) and Gas Chromatography-Negative Chemical Ionization-Mass Spectrometry (GC-NCI-MS).

<u>Tested Component</u>	<u>Result (% w/w)</u>
(19)	ND

Requirement:

Short Chain Chlorinated Paraffin's concentration should be lower than 0.15% in articles under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).

Short Chain Chlorinated Paraffin's concentration should be lower than 1% in substances or mixtures under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).

Remark: Detection Limit = 0.01% (w/w)
ND = Not detected

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.19, 2025

22 Toxic Elements Analysis

As per European Directive 94/62/EC and Amendments 2004/12/EC & 2005/20/EC & 2013/2/EU on packaging and packaging waste, acid digestion method was used and total toxic elements and Hexavalent Chromium content were determined by Inductively Coupled Argon Plasma Spectrometry and by UV-Visible Spectrophotometry.

	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
	(20)	(21)
Lead (Pb)	<5	<5
Cadmium (Cd)	<1	<1
Mercury (Hg)	<5	<5
Chromium VI (Cr (VI))	<1	<1
Total	(0~12)	(0~12)
		100

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.20, 2025

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

23 Dibutylbis(pentane-2,4-dionato-O,O')tin Content

By acid digestion and followed by Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES) analysis.

Test Item	CAS No.	Result (% w/w)
		(1+2+3+4+5+6+7+8+9)
Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	22673-19-4	ND

Test Item	CAS No.	Result (% w/w)
		(10+11+12+13+14+15+16+17+18)
Dibutylbis(pentane-2,4-dionato-O,O')tin Δ	22673-19-4	ND

Remark: ND = Not Detected (Less than reporting limit)

Reporting limit = 0.01%

Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- Identity and contact details of the producer or importer;
- Registration number(s), if available;
- Identity of the substance;
- Classification of the substance(s);
- Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- Tonnage range of the substance(s).

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.18, 2025

24 2-methylimidazole Content

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

Test Item	CAS No.	Result (% w/w)
		(1+2+3+4+5+6+7+8+9)
2-methylimidazole	693-98-1	ND

Test Item	CAS No.	Result (% w/w)
		(10+11+12+13+14+15+16+17+18)
2-methylimidazole	693-98-1	ND

Remark: ND = Not Detected (Less than reporting limit)
Reporting limit = 0.01%

REACH requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- Identity and contact details of the producer or importer;
- Registration number(s), if available;
- Identity of the substance;
- Classification of the substance(s);
- Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- Tonnage range of the substance(s).

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Tested Components: See component list in the last section of this report.

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.21, 2025

25 Tris(4-nonylphenyl, Branched and Linear) Phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, Branched and Linear (4-NP) Content

By solvent extraction and followed by Gas Chromatography-Mass Spectrometry (GC-MS) / Liquid Chromatography with tandem mass spectrometry (LC-MS-MS) analysis.

Test Item	CAS No.	Result (% w/w)
		(1+2+3+4+5+6+7+8+9)
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND

Test Item	CAS No.	Result (% w/w)
		(10+11+12+13+14+15+16+17+18)
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND

Remark: ND = Not Detected (Less than reporting limit)
Reporting limit = 0.01%

REACH Requirement:

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

- Identity and contact details of the producer or importer;
- Registration number(s), if available;
- Identity of the substance;
- Classification of the substance(s);
- Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);
- Tonnage range of the substance(s).

To be continued



Test Report

Number: SHAH01784609

Tests Conducted

As per Article 31 of Regulation (EC) No 1907/2006 (REACH) as amended, the supplier of mixture not classified as hazardous according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), shall provide the recipient at his request with a safety data sheet, where a mixture contains at least one substance on the SVHC list (Candidate List of substances of very high concern for Authorisation) and its individual concentration is of 0.1% or above by weight for non-gaseous mixtures.

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

Tested Components: See component list in the last section of this report.



Picture of sample

Date Sample Received : Jan.15, 2025

Testing Period : Jan.15, 2025 To Jan.21, 2025

To be continued

Test Report

Number: SHAH01784609

Tests Conducted

Component list:

- 1 Light blue plastic. (big/small lid)
- 2 White plastic. (big/small lid)
- 3 Lime plastic. (big/small lid)
- 4 Dark blue plastic. (big/small lid)
- 5 Black plastic. (big/small lid)
- 6 Red plastic. (big/small lid)
- 7 Light blue plastic. (handle)
- 8 White plastic. (handle)
- 9 Lime plastic. (handle)
- 10 Dark blue plastic. (handle)
- 11 Black plastic. (handle)
- 12 Red plastic. (handle)
- 13 Transparent light blue plastic. (bottle)
- 14 Transparent plastic. (bottle)
- 15 Transparent lime plastic. (bottle)
- 16 Transparent dark blue plastic. (bottle)
- 17 Transparent black plastic. (bottle)
- 18 Transparent red plastic. (bottle)
- 19 Semi-transparent silicone ring.(all)
- 20 White paper with black printing. (instruction page)
- 21 White adhesive plastic film with underlying coating. (sticker)
- 22 Whole sample(black style)

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) received and tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Ltd., Shanghai

