



TEST REPORT

Report No.: STSGZ2409293161E

Date: 29-Oct-2024

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Applicant : Mid Ocean Brands B.V.
Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: 5 panel LED light baseball cap
Model: MO2439
vendor code : 107978
Receiving Date: 29-Sep-2024
Test Period: From 29-Sep-2024 to 18-Oct-2024
Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC	PASS
2	Polycyclic-aromatic hydrocarbons (PAHs) content--Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	PASS
3	Colour Fastness to Rubbing-Client's requirement	ISO 105-X12:2016	PASS
4	Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006	EN 12472:2020&EN 1811:2023, determined by ICP-OES	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Mark Mai
(Technical Director)



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Result:

1. **Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013**
ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC

Compound	Material				Limit (mg/kg)	RL (mg/kg)	
	10	11	12	13			
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3'- dimethylazobenzene* CAS#97-56-3	N.D.	N.D.	N.D.	N.D.	30	5
6	5-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	N.D.	N.D.	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	N.D.	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	N.D.	30	5

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18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	N.D.	30	5
Conclusion		PASS	PASS	PASS	PASS	-	-

	Compound	Material				Limit (mg/kg)	RL (mg/kg)
		14	15	16	17		
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	N.D.	N.D.	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	N.D.	N.D.	N.D.	30	5
3	6-chloro-o-toluidine CAS#95-69-2	N.D.	N.D.	N.D.	N.D.	30	5
4	3-Naphthylamine CAS#91-59-8	N.D.	N.D.	N.D.	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3- dimethylazobenzene* CAS#97-56-3	N.D.	N.D.	N.D.	N.D.	30	5
6	7-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	N.D.	N.D.	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	N.D.	N.D.	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	N.D.	N.D.	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	N.D.	N.D.	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	N.D.	N.D.	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	N.D.	N.D.	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o- toluidine CAS#119-93-7	N.D.	N.D.	N.D.	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	N.D.	N.D.	N.D.	30	5

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14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	N.D.	N.D.	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	N.D.	N.D.	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	N.D.	N.D.	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	N.D.	N.D.	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4- toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	N.D.	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	N.D.	N.D.	30	5
Conclusion		PASS	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

(b) N.D.: Not detected (result is less than RL)

(c) RL: Report limit

*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

**: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylenediamine (CAS No. 106-50-3). Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.

2. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 AfPS-GS-2019-01:PAK, determined by GC-MS

Compound	Material					Limit (mg/kg)	RL (mg/kg)
	Category I *1						
	10	15	16	17	18		
1 Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
2 Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
3 Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
4 Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2

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5	Benz[<i>j</i>]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
6	Benzo[<i>a</i>]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
7	Benzo[<i>e</i>]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
8	Dibenz [<i>a,h</i>]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	PASS	PASS	PASS	-	-

Compound	Material					Limit (mg/kg)	RL (mg/kg)	
	Category I ^{*1}							
	19	20	21	22	23			
1	Benz[<i>a</i>]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
3	Benz[<i>b</i>]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
4	Benz[<i>k</i>]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
5	Benz[<i>j</i>]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
6	Benzo[<i>a</i>]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
7	Benzo[<i>e</i>]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
8	Dibenz [<i>a,h</i>]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	PASS	PASS	PASS	-	-

Compound	Material				Limit (mg/kg)	RL (mg/kg)	
	Category I ^{*1}						
	24	25	26	27			
1	Benz[<i>a</i>]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	1	0.2
3	Benz[<i>b</i>]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	1	0.2

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4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	PASS	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram
 (b) RL: Report limit
 (c) N.D.: Not detected (result is less than RL)
 *1: Material category
 Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.
 Category II : Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

3. Colour Fastness to Rubbing

PASS

ISO 105-X12:2016, (Minimum requirement(Grade): Dry \geq 2-3, Wet \geq 2-3)

Sample	Result (Grade)	
	Dry	Wet
Black woven fabric (main fabric)	4-5	2-3
Black woven lining (sweatband/lining)	4-5	4-5
Black non-woven fabric (sweatband lining)	4-5	4-5

Remark(s): Grey Scale Rating is based on the 5-step of 1 to 5, where 1 is bad and 5 is good.

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4. Release of Nickel -Item 27 of Annex XVII of REACH Regulation (EC) 1907/2006
EN 12472:2020&EN 1811:2023,determined by ICP-OES

Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	1			
	A	B	C	
Sample area (cm ²)	7.49	7.49	7.49	-
Volume of Test Solution (ml)	7.5	7.5	7.5	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	2			
	A	B	C	
Sample area (cm ²)	5.59	5.59	5.59	-
Volume of Test Solution (ml)	5.6	5.6	5.6	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	3			
	A	B	C	
Sample area (cm ²)	22.96	22.96	22.96	-
Volume of Test Solution (ml)	23	23	23	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

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Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	4			
	A	B	C	
Sample area (cm ²)	7.45	7.45	7.45	-
Volume of Test Solution (ml)	7.5	7.5	7.5	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	5			
	A	B	C	
Sample area (cm ²)	19.59	19.59	19.59	-
Volume of Test Solution (ml)	20	20	20	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	6			
	A	B	C	
Sample area (cm ²)	6.97	6.97	6.97	-
Volume of Test Solution (ml)	7	7	7	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

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Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	7			
	A	B	C	
Sample area (cm ²)	6.95	6.95	6.95	-
Volume of Test Solution (ml)	7	7	7	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	8			
	A	B	C	
Sample area (cm ²)	19.62	19.62	19.62	-
Volume of Test Solution (ml)	20	20	20	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

Compound	Material			RL ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)
	9			
	A	B	C	
Sample area (cm ²)	7.91	7.91	7.91	-
Volume of Test Solution (ml)	8	8	8	-
Release of Nickel	N.D.	N.D.	N.D.	0.05
Conclusion	PASS	PASS	PASS	-

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Limit :

Sample type	Annex XVII of REACH Limit ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)	EN 1811-2023 Limit ($\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$)	
inserted into pierced ears and other pierced parts of the human body	0.2	<0.35	pass
		≥ 0.35	fail
articles intended to come into direct and prolonged contact with the skin	0.5	≤ 0.88	pass
		>0.88	fail

Remark(s): (a) $\mu\text{g} \cdot \text{cm}^{-2} \cdot \text{week}^{-1}$: microgram per square centimeter per week
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

Material List:

Material #	Position / Sample Description
1	Silvery metal, D-ring base
2	Silvery metal, D-ring cap
3	Silvery metal, fixed clamp lid
4	Silvery metal, rivet
5	Silvery metal, fixed clamp base
6	Silvery metal, button shell
7	Silvery metal, button inner shell
8	Silvery metal, button inner ring
9	Silvery metal, button pin
10	Bright black non-woven fabric, strip
11	Dark blue textile cloth, main body
12	Black textile, cap top inner lining

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13	White textile cloth, inner lining
14	Black textile cloth, bound
15	Black non-woven fabric, sponge sleeve
16	Black elastic band, firmware
17	Grey cloth with silvery coating, brim
18	Transparent plastic, LED
19	White printed black soft plastic, wire cover
20	Red soft plastic, wire jacket
21	Black soft plastic, wire jacket
22	Red plastic, port
23	Black plastic, shell
24	Black plastic, switch
25	Black soft plastic, big plug
26	Black soft plastic, thick wire jacket
27	Black soft plastic, small plug

Remark(s): The test material point is selected by client, the chemical test conclusions in the report only apply to the test material.

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签发测试报告条款

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