TEST REPORT

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: Rechargeable mini torch

Model: MO2461

vendor code : 107978

Receiving Date: 19-Sep-2024

Test Period: From 19-Sep-2024 to 26-Sep-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**

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

Signed for and on behalf of STS

Mark Mai
(Technical Director)

GUANGZHOU DEPUHUA TEST SERVICES CO., LTD
TESTING SERVICES

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TEST REPORT

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

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18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	N.D.	30	5
19	2,4-diaminotoluene/2,4-toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	N.D.	30	5
	Conclusion	**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-phenylendiamine (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					
		1	2	3	4		
1	Benz[a]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[b]fluoranthene(BbFA) CAS#205-99-2	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.	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**	-	-

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Compound		Material				Limit (mg/kg)	RL (mg/kg)
		Category I *1					
		6	8	9	10		
1	Benz[a]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[b]fluoranthene(BbFA) CAS#205-99-2	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.	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≥2-3，Wet≥2-3)

Sample	Result (Grade)	
	Dry	Wet
Black textile,belt	4-5	4-5
Black textile,string	3-4	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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Material List:

Material #	Position / Sample Description
1	Black soft plastic,USB holder
2	Black soft plastic,plug holder
3	Black soft plastic,wire cover
4	White plastic,holder
5	Black textile,string
6	Bright black plastic,string holder
7	Black textile,belt
8	Transparent plastic,LED cover
9	Black plastic,base
10	Blue soft plastic,button

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Photo(s):



Test sample photo

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