

TEST REPORT

Report No.: DPHTL2510093092E

Date: Nov 12,2025

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Applicant: Mid Ocean Brands B.V.**Address:** Unit 711-716, 7/F., Tower A, 83 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 torch**Model:** MO2137**Vendor code :** 107978**Receiving Date:** Oct 9,2025; Nov 3,2025**Test Period:** From Oct 9,2025 to Nov 5,2025**Add Information:** -**Test Summary:**

#	Test item(s)	Conclusion
1	Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 Polycyclic-aromatic hydrocarbons (PAHs) content	PASS
2	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	PASS
3	POPs European Regulation (EU) 2019/1021 Annex I - Pentachlorophenol (PCP) content	PASS
4	ISO 105-X12:2016 - Colour Fastness to Rubbing	PASS
5	Item 77 of Annex XVII of REACH Regulation (EC) 1907/2006 Formaldehyde	PASS

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

Authorized Signatory

Mark Mai
(Technical Director)



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Result:

- 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

Test Item(s)		Results				Limit (mg/kg)	MDL (mg/kg)
		category I*1					
		3	5	6	7		
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	-	-

Test Item(s)		Results					Limit (mg/kg)	MDL (mg/kg)
		category I*1						
		8	9	10	11	12		
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
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	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.	N.D.	1	0.2

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7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	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.	N.D.	1	0.2
-	Conclusion	PASS	PASS	PASS	PASS	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram
(b) MDL: Method detected limit
(c) N.D.: Not detected (result is less than MDL)
*1: Result 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.

2. 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

Test Item(s)		Results	Limit (mg/kg)	MDL (mg/kg)
		1+2		
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	30	5
3	4-chloro-o-toluidine CAS#95-69-2	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	30	5
5	o-aminoazotoluene/4-o-tolyazao-o- toluidine /4-amino-2',3'- dimethylazobenzene* CAS#97-56-3	N.D.	30	5
6	5-nitro-o-toluidine/2-amino-4- nitrotoluol* CAS#99-55-8	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoanisole CAS#615-05-4	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'- ylenediamine CAS#91-94-1	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	30	5

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12	3,3'-dimethylbenzidine/4,4'-bi-o-toluidine CAS#119-93-7	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	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.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	30	5
19	2,4-diaminotoluene/2,4-toluylendiamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	30	5
-	Conclusion	PASS	-	-

Remark(s): (a) MDL: Method detected limit
(b) N.D.: Not detected (result is less than MDL)
(c) mg/kg: milligram per kilogram
*: 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.

3. POPs European Regulation (EU) 2019/1021 Annex I - Pentachlorophenol (PCP) content In house method, determined by GC-MS

Test Item(s)		Result	Limit (mg/kg)	MDL (mg/kg)
		4		
1	Pentachlorophenol(PCP) CAS#87-86-5	N.D.	Not Detected	5
	Conclusion	PASS	-	-

Remark(s): (a) MDL: Method detected limit
(b) N.D.: Not detected (result is less than MDL)
(c) mg/kg = milligram per kilogram

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4. ISO 105-X12:2016 - Colour Fastness to Rubbing

(Minimum requirement(Grade): Dry $\geq$ 2-3, Wet $\geq$ 2-3)

Sample	Result (Grade)	
	Dry	Wet
1	4-5	4-5
2	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.

5. Formaldehyde - Item 77 of Annex XVII of REACH Regulation (EC) 1907/2006

EN 717-1:2004, determined by UV-Vis

Test Item(s)		Result	Limit (mg/m ³)	MDL (mg/m ³)
		4		
1	Formaldehyde CAS#50-00-0	N.D.	0.062	0.005
-	Conclusion	PASS	-	-

Remark: (a) mg/m³: mg per cubic meter
(b) N.D.: Not detected (result is less than MDL)
(c) MDL: Method detected limit

Material List:

Material #	Sample Description / Position
1	Gray textile,ropes
2	Black textile,ropes
3	Black plastic,holder
4	Brown wood,shell
5	Light blue soft plastic,button
6	Transparent plastic,plate
7	Black plastic,base

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8	Black soft plastic,USB holder
9	Black soft plastic,plug holder
10	Black soft plastic,wire cover
11	White plastic,USB holder
12	Matt-black plastic,plug holder

Photo(s):



Product Photo

<<< <<< END OF REPORT >>> >>>

声明

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