Test Report

Report No.: LST24050178ENS1 **Date:** May. 17, 2024

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) information and test item(s) were submitted and identified by/on behalf of the applicant

Sample Name: Long lasting inkless pen

Style No.: MO2354

Country of Origin: China

Manufacturer Name: 108694

Sample Receiving Date: May. 10, 2024

Testing Period: May. 10, 2024 to May. 16, 2024

Summary of Test Result(s):

No.	Test Requested	Result(s)
1	Tested materials of submitted samples refer to Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 & (EU) No 2015/628 - Lead content	PASS
2	Tested materials of submitted samples refer to Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & commission regulation(EU) No.494/2011 & amended (EU) No. 835/2012 & (EU) No 217/2016 - Cadmium content	PASS
3	Tested materials of submitted samples refer to Annex XVII items 51&52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009&(EU) 2018/2005 - Phthalates	PASS
4	Tested materials of submitted samples refer to Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic Aromatic Hydrocarbons (PAHs)	PASS

**********FOR FURTHER DETAILS,PLEASE REFER TO THE FOLLOWING PAGE(S)**********

Signed for and on behalf of LST

Rory / Technical Manager

Zhejiang Lisen Testing Technology Co., Ltd.
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Test Report

Sample Description

Material No.	Component Description	Location
01	Silvery metal	Substrate of barrel
02	Black paint	Coating of barrel
03	Rose golden paint	Coating of barrel
04	Silvery paint	Coating of barrel
05	White translucence plastic	Cap
06	Black lead	Nib

Photo of sample



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Test Result(s):

Annex XVII items 63 of the REACH - Lead content

Method:

Metal - With reference to CPSC-CH-E1001-08.3,

Nonmetal - With reference to CPSC-CH-E1002-08.3,

Surface coating - With reference to CPSC-CH-E1003-09.1,

analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
01	500	12	PASS
02	500	228	PASS
03	500	N.D.	PASS
04	500	19	PASS
05	500	N.D.	PASS
06	500	15	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 10 mg/kg.

Annex XVII items 23 of the REACH - Cadmium content

Method:With reference to EN 1122:2001 method B,analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
(02+03+04)▲	100	N.D.	PASS
05	1000	N.D.	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL (Reporting Limit) = 5 mg/kg.
4. “▲”this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 51&52 of the REACH - Phthalates

Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	**DBP**	**BBP**	**DEHP**	**DIBP**	***SUM***	**DNOP**	**DIDP**	**DINP**	***SUM***	**Conclusion**
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	--	117-84-0	26761-40-0	28553-12-0	--	
Limit (mg/kg)	--	--	--	--	1000	--	--	--	1000	
RL(mg/kg)	50	50	50	50	--	50	100	100	--	
Material No.	**Result (mg/kg)**									
(02+03+04)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
05	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.
4. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

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Annex XVII items 50 of the REACH - Polycyclic Aromatic Hydrocarbons (PAHs)
Method: With reference to AfPS GS 2019:01 PAK, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)	
		Ⅰ	Ⅱ	Ⅲ	(02+03+04)▲	05
Benzo[a]anthracene(BaA)	56-55-3	--	**1**	0.5	N.D.	N.D.
Chrysene (CHR)	218-01-9	--	**1**	0.5	N.D.	N.D.
Benzo[b]fluoranthene(BbFA)	205-99-2	--	**1**	0.5	N.D.	N.D.
Benzo[k]fluoranthene(BkFA)	207-08-9	--	**1**	0.5	N.D.	N.D.
Benzo[a]pyrene(BaP)	50-32-8	1	**1**	0.5	N.D.	N.D.
Dibenzo[a,h]anthracene(DBAhA)	53-70-3	--	**1**	0.5	N.D.	N.D.
Benzo[e]pyrene(BeP)	192-97-2	--	**1**	0.5	N.D.	N.D.
Benzo[j]fluoranthene(BjFA)	205-82-3	--	**1**	0.5	N.D.	N.D.
SUM		10	**--**	--	N.D.	N.D.
Conclusion					PASS	PASS

Note:
1. mg/kg = milligram per kilogram (ppm).
2. N.D. = Not Detected (<RL).
3. RL (Reporting Limit) = 0.2 mg/kg.
4. "--" = Not Regulated.
5. Product Class:
   Ⅰ = Extender oils.
   Ⅱ = Rubber or plastic components 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.
   Ⅲ = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components 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.
6. "▲"this data for several samples of mixed test results, the actual data of one or several samples in mixed samples are likely more than the results, please be careful to use this data.

Remark:
This report is a revised document for Report No. LST24050178EN. Report No. LST24050178EN is replaced and invalidated automatically from the approval date of this report.

End of Report

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