



Test Report

Report No.: LST23052044ENS3

Date: May. 25, 2023

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

Sample Name: Recycled Paper Tube pen
Vendor code: 108694
Item number: MO2067

Sample Receiving Date: May. 04, 2023

Testing Period: May. 05, 2023 to May. 22, 2023

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
5	Tested materials of submitted samples refer to Category 2 in AfPS GS 2019:01 PAK," Testing and assessment of polycyclic aromatic hydrocarbons (PAHs) in the recognition of the GS mark".	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.

Address:5 Floor,Building 13,Yiwu Science&Technology Park, No.968 Xuefeng West Road,Yiwu,Zhejiang,China

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Sample Description

Material No.	Component Description	Location
01	Green paper	Barrel
02	Black paper	Barrel
03	Light brown paper	Barrel
04	Red paper	Barrel
05	Blue paper	Barrel
06	Blue gray paper	Barrel
07	White paper	Barrel
08	Gray plastic with silvery plating	Tip
09	Gray plastic with silvery plating	Press-button
10	Silvery plating metal	Clip
11	White plastic	Thrust tube
12	Black plastic	Thrust device
13	Black plastic	Cylindrical accessory
14	Silvery plating metal	Spring
15	Silvery metal	Nib(with round bead)
16	White plastic	Cartridge
17	Blue ink	Ink

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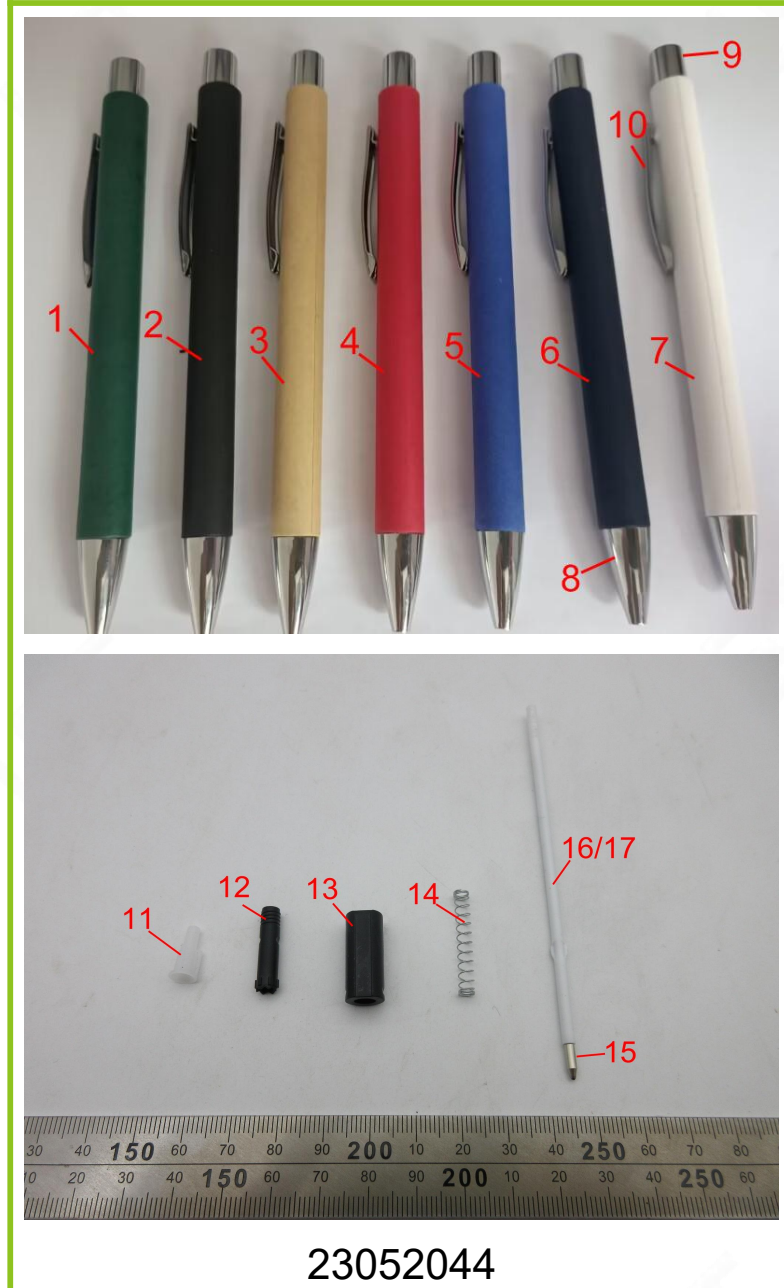
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Photo of sample



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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+02+03)▲	500	N.D.	PASS
(04+05)▲	500	N.D.	PASS
(06+07)▲	500	N.D.	PASS
(08+09)▲	500	N.D.	PASS
10	500	25	PASS
(11+12+13)▲	500	N.D.	PASS
14	500	15	PASS
16	500	N.D.	PASS
17	500	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 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 23 of the REACH - Cadmium 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+02+03)▲	100	N.D.	PASS
(04+05)▲	100	N.D.	PASS
(06+07)▲	100	N.D.	PASS
(08+09)▲	100	N.D.	PASS
10	100	N.D.	PASS
(11+12+13)▲	100	17	PASS
14	100	N.D.	PASS
15	100	12	PASS
16	100	N.D.	PASS
17	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 ISO 8124-6:2018(E) Method C, Internal standard (IS) calibration, was analyzed by Gas Chromatograph-Mass Spectrometer (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 /68515-49-1	28553-12-0 /68515-48-0	--	
Limit (%)	--	--	--	--	0.1	--	--	--	0.1	
RL(%)	0.005	0.005	0.005	0.005	--	0.005	0.01	0.01	--	
Material No.	Result (%)									
(08+09)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
(11+12+13)▲	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
17	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. 1% = 10000mg/kg
 3. N.D. = Not Detected (< RL).
 4. RL = Reporting Limit.
 5. The DBP, BBP, DEHP and DIBP shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles.
 6. The DNOP, DIDP and DINP shall not be used as substances or in mixtures, in concentrations greater than 0.1% by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
 7. "▲" 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	(08+09)▲	(11+12+13)▲
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

Test Substance	CAS No.	Limit (mg/kg)			Result (mg/kg)	
		I	II	III	16	17
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.

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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.

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AfPS GS 2019:01 PAK - 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.	Result (mg/kg)			
		(08+09)▲	(11+12+13)▲	16	17
Category Type		Category 2	Category 2	Category 2	Category 2
(1) Naphthalene(NAP)	91-20-3	N.D.	0.2	N.D.	N.D.
(2) Phenanthrene(PHE)	85-01-8	N.D.	N.D.	N.D.	N.D.
(3) Anthracene(ANT)	120-12-7	N.D.	N.D.	N.D.	N.D.
(4) Fluoranthene(FLT)	206-44-0	N.D.	N.D.	N.D.	N.D.
(5) Pyrene(PYR)	129-00-0	N.D.	N.D.	N.D.	N.D.
Sum of (PHE, ANT, FLT, PYR)		N.D.	N.D.	N.D.	N.D.
(6) Benzo(a)anthracene(BaA)	56-55-3	N.D.	N.D.	N.D.	N.D.
(7) Chrysene(CHR)	218-01-9	N.D.	N.D.	N.D.	N.D.
(8) Benzo(b)fluoranthene(BbFA)	205-99-2	N.D.	N.D.	N.D.	N.D.
(9) Benzo(k)fluoranthene(BkFA)	207-08-9	N.D.	N.D.	N.D.	N.D.
(10) Benzo(a)pyrene(BaP)	50-32-8	N.D.	N.D.	N.D.	N.D.
(11) Indeno(1,2,3-cd)pyrene(IPY)	193-39-5	N.D.	N.D.	N.D.	N.D.
(12) Dibenzo(a,h)anthracene(DBAhA)	53-70-3	N.D.	N.D.	N.D.	N.D.
(13) Benzo(g,h,i)perylene(BPE)	191-24-2	N.D.	N.D.	N.D.	N.D.
(14) Benzo[e]pyrene(BeP)	192-97-2	N.D.	N.D.	N.D.	N.D.
(15) Benzo[j]fluoranthene(BjFA)	205-82-3	N.D.	N.D.	N.D.	N.D.
Sum of 15 PAHs		N.D.	0.2	N.D.	N.D.
Conclusion		PASS	PASS	PASS	PASS

AfPS GS 2019:01 PAK

Test Substance	CAS No.	Limit (mg/kg)				
		Category 1	Category 2		Category 3	
			Use by Children*	Others	Use by Children*	Others
(1) Naphthalene(NAP)	91-20-3	< 1	<2		<10	
(2) Phenanthrene(PHE)	85-01-8	--	--	--	--	--
(3) Anthracene(ANT)	120-12-7	--	--	--	--	--
(4) Fluoranthene(FLT)	206-44-0	--	--	--	--	--

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(5) Pyrene(PYR)	129-00-0	--	--	--	--	--
Sum of (PHE, ANT, FLT, PYR)		<1	<5	<10	<20	<50
(6) Benzo(a)anthracene(BaA)	56-55-3	<0.2	<0.2	<0.5	<0.5	<1
(7) Chrysene(CHR)	218-01-9	<0.2	<0.2	<0.5	<0.5	<1
(8) Benzo(b)fluoranthene(BbFA)	205-99-2	<0.2	<0.2	<0.5	<0.5	<1
(9) Benzo(k)fluoranthene(BkFA)	207-08-9	<0.2	<0.2	<0.5	<0.5	<1
(10) Benzo(a)pyrene(BaP)	50-32-8	<0.2	<0.2	<0.5	<0.5	<1
(11) Indeno(1,2,3-cd)pyrene(IPY)	193-39-5	<0.2	<0.2	<0.5	<0.5	<1
(12) Dibenzo(a,h)anthracene(DBAhA)	53-70-3	<0.2	<0.2	<0.5	<0.5	<1
(13) Benzo(g,h,i)perylene(BPE)	191-24-2	<0.2	<0.2	<0.5	<0.5	<1
(14) Benzo[e]pyrene(BeP)	192-97-2	<0.2	<0.2	<0.5	<0.5	<1
(15) Benzo[j]fluoranthene(BjFA)	205-82-3	<0.2	<0.2	<0.5	<0.5	<1
Sum of 15 PAHs		<1	<5	<10	<20	<50

- 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. Category 1: Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use.
Category 2: Materials not covered by category 1, coming into long-term contact (more than 30s) or short term repetitive contact with skin during the intended or foreseeable use.
Category 3: Materials not covered by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.
 6. "*" = Children is legally defined as a person before reaching the age of 14 years.
 7. "▲" 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. LST23052044ENS2. Report No. LST23052044ENS2 is replaced and invalidated automatically from the approval date of this report.

End of Report

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