

TEST REPORT

Test Report # 22A-015516(A1) Date of Report Issue: January 4, 2023

Date of Sample Received: December 15, 2022 Pages: Page 1 of 18

CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.

Address: 7/F, Kings Tower, 111 King Lam Street, Cheung

Sha Wan, Kowloon, Hong Kong

SAMPLE INFORMATION:

Product Name: Delta Kite in Ripstop Polyester Pouch

Style No.: MO6233 Labeled Age Grade: -

Order No.(PO No.): - Client Request Age Grade: Over 3 years of

age

Country of Origin: - Recommended Age Grade: -

Country of Distribution: Europe Tested Age Grade: Over 3 years of

age

Composition/Main Material: Polyester

Testing Period: 12/22/2022-01/03/2023

OVERALL RESULT:

PASS

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

QIMA (HANGZHOU) TESTING CO., LTD.

oremy. Xu

Eric Liu

RC-CSHZ-R007

Lab Operation Director

Jeremy Xu

Chemical Laboratory Supervisor



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TEST RESULTS SUMMARY:

RC-CSHZ-R007

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	EN 71-3: 2019+A1:2021 Safety of Toys, Migration of Certain Elements
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 5 Benzene
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DNOP, DINP, DIDP)
PASS	Colour Fastness to Rubbing
PASS	EN 71-1:2014+A1:2018 Safety of Toys: Mechanical & Physical Properties
PASS	EN 71-1:2014+A1:2018 Safety of Toys: Labeling Review
PASS	Directive 2009/48/EC Toys Labeling Review
PASS	EN 71-2:2020 Safety of Toys: Flammability



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DETAILED RESULTS:

EN 71-3: 2019+A1:2021 Safety of Toys, Migration of Certain Elements

Test Method: EN 71-3:2019+A1:2021

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Category III: Scraped-off materials

Specimen No.	1	2	5	6		Soluble
T	Result	Result	Result	Result	RL	Limit
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminum (Al)	ND	ND	ND	ND	50	28 130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	50	18 750
Boron (B)	ND	ND	ND	ND	50	15 000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium III (Cr III)^	ND	ND	ND	ND	0.2	460
Chromium VI (Cr VI)^	ND	ND	ND	ND	0.05	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	50	7 700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	50	15 000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	50	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	50	56 000
Tin (Sn)	ND	ND	ND	ND	1	180 000
Organic Tin^^	ND	ND	ND	ND	3.3	12
Zinc (Zn)	ND	ND	ND	129	50	46 000
Conclusion	PASS	PASS	PASS	PASS		

Note:

RC-CSHZ-R007

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

^Soluble Chromium is reported when the soluble chromium result below the chromium VI limit.

^^ Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.3 mg/kg) or the components were confirmed to be pure metal.



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Data Consolidation Reference:

Chasiman Na	Transferre	Date of Issue	
Specimen No.	Report No. Specimen No.		
1	22A-013820(A1)	1	December 14, 2022
2	22A-013820(A1)	2	December 14, 2022
5	22A-013820(A1)	5	December 14, 2022
6	22A-013820(A1)	6	December 14, 2022



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DETAILED RESULTS:

EN 71-3: 2019+A1:2021 Safety of Toys, Migration of Certain Elements

Test Method: EN 71-3:2019+A1:2021

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Category III: Scraped-off materials

Specimen No.	9	10	11			Soluble
Took Ikawa	Result	Result	Result	Result	RL	Limit
Test Item	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminum (Al)	ND	ND	ND		50	28 130
Antimony (Sb)	ND	ND	ND		10	560
Arsenic (As)	ND	ND	ND		10	47
Barium (Ba)	ND	ND	ND		50	18 750
Boron (B)	ND	ND	ND		50	15 000
Cadmium (Cd)	ND	ND	ND		5	17
Chromium III (Cr III)^	ND	ND	ND		0.2	460
Chromium VI (Cr VI)^	ND	ND	ND		0.05	0.053
Cobalt (Co)	ND	ND	ND		10	130
Copper (Cu)	ND	ND	ND		50	7 700
Lead (Pb)	ND	ND	ND		10	23
Manganese (Mn)	ND	ND	ND		50	15 000
Mercury (Hg)	ND	ND	ND		10	94
Nickel (Ni)	ND	ND	ND		50	930
Selenium (Se)	ND	ND	ND		10	460
Strontium (Sr)	ND	ND	ND		50	56 000
Tin (Sn)	1	ND	ND		1	180 000
Organic Tin^^	ND	ND	ND		3.3	12
Zinc (Zn)	ND	ND	ND		50	46 000
Conclusion	PASS	PASS	PASS			

Note:

RC-CSHZ-R007

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

^Soluble Chromium is reported when the soluble chromium result below the chromium VI limit.

^^ Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.3 mg/kg) or the components were confirmed to be pure metal.

Data Consolidation Reference:

Chasiman Na	Transferre	Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
9	22A-013820(A1)	9	December 14, 2022

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Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule.



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1+2+3	5	6	7	8	Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND	ND	ND	ND	68	500
Conclusion	PASS	PASS	PASS	PASS	PASS	

Specimen No.	10+11					Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Lead (Pb)	ND					500
Conclusion	PASS					

Note:

RC-CSHZ-R007

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.

Data Consolidation Reference:

Cnocimon No	Transferre	Data of Issue	
Specimen No.	Report No. Specimen No.		Date of Issue
1+2+3	22A-013820(A1)	1+2+3	December 14, 2022
5	22A-013820(A1)	5	December 14, 2022
6	22A-013820(A1)	6	December 14, 2022
7	22A-013820(A1)	7	December 14, 2022
8	22A-013820(A1)	8	December 14, 2022

Α1



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	5	6	7			Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Total Cadmium (Cd)	ND	ND	ND			100
Conclusion	PASS	PASS	PASS			

Note:

RC-CSHZ-R007

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

Spacimon No	Transferre	Date of Issue	
Specimen No.	Report No. Specimen No.		
5	22A-013820(A1)	5	December 14, 2022
6	22A-013820(A1)	6	December 14, 2022
7	22A-013820(A1)	7	December 14, 2022



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 5 Benzene

Test Method: In-House Method

Analytical Method: Headspace Gas Chromatography with Mass Spectrometry

Specime	n No.	5	6			Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Benzene	71-43-2	ND	4			5
Conclu	sion	PASS	PASS			

Note:

RC-CSHZ-R007

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 1 mg/kg)

Data Consolidation Reference:

Cnasiman Na	Transferre	Data of Issue		
Specimen No.	Report No.	Specimen No.	- Date of Issue	
5	22A-013820(A1)	5	December 14, 2022	
6	22A-013820(A1)	6-1	December 14, 2022	

Α1



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)

Test Method: AfPS GS 2019:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Toys and childcare articles

Specimen No	0.	7				Limit
Test Item	CAS No.	Result	Result	Result	Result	(mg/kg)
rest item	C/13 110.	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(0, 0,
Benzo [a] pyrene (BaP)	50-32-8	ND				0.5
Benzo [e] pyrene (BeP)	192-97-2	ND				0.5
Benzo [a] anthracene (BaA)	56-55-3	ND				0.5
Chrysene (CHR)	218-01-9	ND				0.5
Benzo [b]	205-99-2	ND				0.5
fluroranthene (BbFA)	203-33-2	ND				0.5
Benzo [j] fluroranthene	205-82-3	ND				0.5
(BjFA)	203 02 3	110				0.5
Benzo [k]	207-08-9	ND				0.5
fluroranthene (BkFA)	207-08-9	ND				0.5
Dibenzo [a,h]	53-70-3	ND				0.5
anthracene (DBAhA)	JJ-7U-3	ואט				0.5
Conclusion		PASS				

Note:

RC-CSHZ-R007

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)

Specimen No	Transferre	Date of Issue	
specimen No.	Specimen No. Report No.		Date of issue
7	22A-013820(A1)	7	December 14, 2022



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DETAILED RESULTS:

RC-CSHZ-R007

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles

Test Method: EN ISO 14362-1:2017, EN ISO 14362-3:2017

Analytical Method: Gas Chromatography with Mass Spectrometry, Liquid Chromatography with Diode

Array Detection / Liquid Chromatography with Mass Spectrometry

Specimen N	0.	1+3+4				
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
4-aminobiphenyl	92-67-1	ND				30
Benzidine	92-87-5	ND				30
4-chloro-o-toluidine	95-69-2	ND				30
2-naphtylamine	91-59-8	ND				30
o-Aminoazotoluene	97-56-3	ND				30
5-nitro-o-toluidine	99-55-8	ND				30
4-chloroaniline	106-47-8	ND				30
2,4-diaminoanisole	615-05-4	ND				30
4,4'-methylenedianiline	101-77-9	ND				30
3,3'-dichlorobenzidine	91-94-1	ND				30
o-dianisidine	119-90-4	ND				30
3,3'-dimethylbenzidine	119-93-7	ND				30
4,4'-methylenedi-o- toluidine	838-88-0	ND				30
p-cresidine	120-71-8	ND				30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND				30
4,4'-oxydianiline	101-80-4	ND				30
4,4'-thiodianiline	139-65-1	ND				30
o-toluidine	95-53-4	ND				30
2,4-diaminotoluene	95-80-7	ND				30
2,4,5-trimethylaniline	137-17-7	ND				30
2-methoxyaniline	90-04-0	ND				30
4-aminoazobenzene	60-09-3	ND				30
Conclusion	1	PASS				



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Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)

Composite results are based on total mass of the composite test portion.

Remark:

RC-CSHZ-R007

In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.

Spacimon No	Transferre	Data of Issue	
Specimen No.	Report No.	Specimen No.	Date of Issue
1+3+4	22A-013820(A1)	1+3+4	December 14, 2022



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	Specimen No.		6		Limit
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
Dibutyl phthalate (DBP)	84-74-2	ND	ND		1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND		1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND		1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND		1000
Sum of DBP, BBP, DEHP, I	Sum of DBP, BBP, DEHP, DIBP		ND		1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND		
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND		
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND		
Sum of DnOP, DINP, DIDP		ND	ND		1000
Conclusion		PASS	PASS		

Note:

RC-CSHZ-R007

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Spacimon No	Transferre	Date of Issue	
Specimen No.	Report No.	Specimen No.	Date of issue
5	22A-013820(A1)	5	December 14, 2022
6	22A-013820(A1)	6	December 14, 2022



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DETAILED RESULTS:

Colour Fastness to Rubbing

Test Method: ISO 105-X12: 2016, Size of rubbing finger: 16mm dia.

Specimen No.	1					Client's
Items	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	Result (Grade)	requirement
Dry staining	4-5					Min. 2-3
Wet staining	4-5					Min. 2-3
Conclusion	PASS					-

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Data Consolidation Reference:

Spacimon No	Transferre	Date of Issue	
Specimen No. Report No.		Specimen No.	Date of issue
1	22A-013820(A1)	1	December 14, 2022

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DETAILED RESULTS:

EN 71-1:2014+A1:2018 Safety of Toys: Mechanical & Physical Properties

Mechanical hazards evaluated as described in EN71-1, as applicable.

Clause	Test	Conclusion
4.1	Material cleanliness	PASS
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
4.13 & 7.9	Cords of toy kites and other flying toys [∅]	PASS
7.1	Warning - General	PASS
7.2	Warning for Toys not intended for Children under 36 months	PASS

Remark: The results have been transferred into this report from Test Report #22A-013820(A1) dated: 12/14/2022

Directive 2009/48/EC Toys Labeling Review

RC-CSHZ-R007

Test	Observation	Conclusion
CE Marking that met the proportions and dimensions as defined in Directive 93/68/EEC should be affixed on the toy or its packaging.	Present on Toy & Packaging, height: 5mm	PASS
Name and address of manufacturer or his authorized representative or importer into the community should be affixed on the toy or its packaging. Address of manufacturer or his authorized representatives or importer should be located in EU community.	Present on Toy & Packaging	PASS
Type, batch, serial or model number or other element allowing their identification should be provided on toy, packaging or in a document accompanying the toy.	Present on Toy & Packaging	PASS
Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold.	Present in multi-lingual on Instruction Leaflet Present in English on Toy	PASS

Remark: The results have been transferred into this report from Test Report #22A-013820(A1) dated: 12/14/2022

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Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

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DETAILED RESULTS:

RC-CSHZ-R007

EN 71-2:2020 Safety of Toys: Flammability

Flammability test evaluated as described in EN71-2, as applicable.

Test	Observation	Conclusion
4.1 General	No visual signs of Cellulose Nitrate or with similar behaviour in fire as celluloid.	PASS

Remark: The results have been transferred into this report from Test Report #22A-013820(A1) dated: 12/14/2022

Α1



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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black textile	Main body (black style)
2	White textile	Main body (black style)
3	Black textile	Edge (black style)
4	Black textile	Top of main body (black style)
5	Black plastic	Hand shank (black style)
6	Black fiber	Pole (black style)
7	White soft plastic	Elastic (black style)
8	Silvery metal	Eyelet (black style)
9	White thread	String (black style)
10	Black textile	Main body (green style)
11	Dark blue textile	Main body (dark blue style)



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SAMPLE PHOTO:



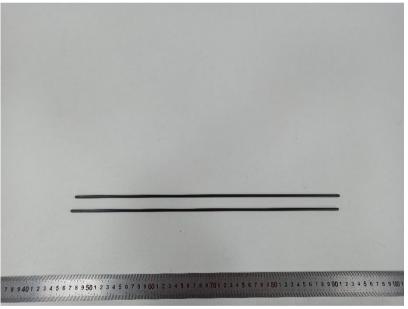




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SAMPLE PHOTO:





-End Report-