

Test Report

Report No.: GNB191120234-02-02EN

Date: Dec. 05, 2019

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The following information was/were submitted and identified by/on behalf of the client:

Applicant : Mid Ocean Brands B.V./ Vendor code: 109979.
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Sample Name : USB HUB & SPINNER
Sample Model : MO9318
Sample Receive Date : Nov. 20, 2019
Sample Testing Period : Nov. 20, 2019 - Nov. 22, 2019

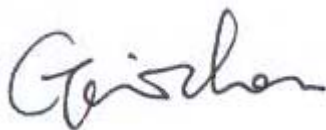
Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)
Phthalates(DBP, BBP, DEHP, DIBP, DNOP, DINP and DIDP) content	Annex XVII items 51 & 52 of REACH Regulation (EC) No. 1907/2006 & its amendment (EC) No. 552/2009 and (EU) 2018/2005	PASS

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Lab Manager: Gavin Zhou



Dec. 05, 2019

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Test Result(s):

Test Sample Description:

Material No.	Material Description
<u>01</u>	Black plastic 1+ Black plastic 2

Phthalates content

Test Method: EN 14372: 2004

Following four phthalates intended for all the materials of toys and childcare articles

<u>Test Items</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>
					<u>01</u>
Dibutyl phthalate (DBP)	84-74-2	%	0.005	--	N.D.
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005	--	N.D.
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005	--	N.D.
Di-iso-butyl phthalate (DIBP)	84-69-5	%	0.005	--	N.D.
Sum of DBP, BBP, DEHP and DIBP	--	%	--	0.1	N.D.
<u>Conclusion(s)</u>					PASS

Following three phthalates intended for materials of toys and childcare articles that can be placed in the mouth

<u>Test Items</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>
					<u>01</u>
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	--	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.010	--	N.D.
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.010	--	N.D.
Sum of DNOP, DINP and DIDP	--	%	--	0.1	N.D.
<u>Conclusion(s)</u>					PASS

- Note:**
1. % = Percentage by weight;
 2. 0.1% = 1000mg/kg;
 3. MDL = Method Detection Limit;
 4. N.D. = Not Detected (<MDL);
 5. For sample(s) 01, composite test has been performed as per client's request and the test result is the overall result.

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Sample Photo(s):



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Sample Name : USB HUB & SPINNER
Sample Model : MO9318
Sample Receive Date : Nov. 20, 2019
Sample Testing Period : Nov. 20, 2019 - Nov. 28, 2019
Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)
Benzene content	Annex XVII items 5 of REACH Regulation (EC) No. 1907/2006 & it's amendments	PASS

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Test Result(s):**Test Sample Description:**

Material No.	Material Description
<u>01</u>	Black plastic 1+ Black plastic 2

Benzene content**Test Method:** US EPA 8260B: 1996/ Solvent extraction, analysis was performed by HS-GC-MS

<u>Sample No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	<u>Conclusion(s)</u>
<u>01</u>	mg/kg	1	1000	N.D.	PASS

- Note:**
1. 0.1% = 1000mg/kg;
 2. MDL = Method Detection Limit;
 3. N.D. = Not Detected (<MDL);
 4. For sample(s) 01, composite test has been performed as per client's request and the test result is the overall result.

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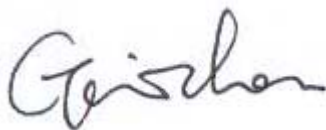
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Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Sample Name : USB HUB & SPINNER
Sample Model : MO9318
Sample Receive Date : Nov. 20, 2019
Sample Testing Period : Nov. 20, 2019 - Nov. 22, 2019
Test Result Summary:

As requested by the applicant, for details refer to attached page(s).

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)
Polycyclic Aromatic Hydrocarbon (PAHs)	Annex XVII items 50 of REACH Regulation (EC) No. 1907/2006 & it's amended (EU) No. 1272/2013	PASS

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Test Result(s):
Test Sample Description:

Material No.	Material Description
<u>01</u>	Black plastic 1+ Black plastic 2

Polycyclic Aromatic Hydrocarbon (PAHs)
Test Method: AfPS GS 2014: 01 PAK

<u>Item No.</u>	<u>Test Item</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>			<u>Result(s)</u>
					I	II	III	<u>01</u>
1	Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.2	1	1	0.5	N.D.
2	Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.2	--	1	0.5	N.D.
3	Benz(a)anthracene(BaA)	56-55-3	mg/kg	0.2	--	1	0.5	N.D.
4	Chrysene(CHR)	218-01-9	mg/kg	0.2	--	1	0.5	N.D.
5	Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.2	--	1	0.5	N.D.
6	Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.2	--	1	0.5	N.D.
7	Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.2	--	1	0.5	N.D.
8	Dibenz(a,h)anthracene(DBA)	53-70-3	mg/kg	0.2	--	1	0.5	N.D.
Total PAHs		--	--	--	10	--	--	N.D.
<u>Conclusion(s)</u>								PASS [#]

- Note:**
- 1000mg/kg = 0.1%;
 - MDL = Method Detection Limit;
 - N.D. = Not Detected (<MDL);
 - Product category:
 - I = For extender oils.
 - II = For 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.
 - III = For Toys, including activity toys, and childcare articles, shall not be placed on the market, 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.
 - "#" = According to category II.

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