

Test Report

Report No.: A001R20171009065-2

Date: Oct.30, 2017

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Applicant: Mid Ocean Brands B.V.

Address: Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.

Report on the submitted sample(s) said to be:

Sample Name : CANDLE

Item No. : CX1370

Supplier :

Buyer : MID OCEAN

Manufacturers :

Address :

Country of Origin : CHINA

Country of Destination : EUROPE

Sample Receiving Date : Oct.09, 2017

Testing Period : Oct.09, 2017 to Oct.27, 2017

Test Requested : Please refer to next page(s).

Test Method : Please refer to next page(s).

Test Result : Please refer to next page(s).

Reviewed by: *Jessie.Liang*

Liangdan, Jessie.Liang

Technical Supervisor

Approved by: *Jay.Liu / Liulinwen, Lewis*

Liujinliang, Jay.Liu / Liulinwen, Lewis

Laboratory Supervisor / Technical Director



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Test Requested:

1. As specified by client, to determine the Cadmium content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.

Pass

2. As specified by client, to determine the Lead and Lead compounds content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.

Pass

3. As specified by client, to determine:

EN 15426-2007: Candles — Specification for sooting behaviour

Pass

EN 15493-2007: Candles — Specification for fire safety

Pass

EN 15494-2007: Candles — Product safety labels

Pass

Conclusion

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Test Result(s):
1. Test result of Cd

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1	2	3	
Cadmium (Cd)	Refer to EPA 3052-1996 &EPA 6010C-2007 ICP-OES	5	N.D.	N.D.	N.D.	100
Conclusion		/	Pass	Pass	Pass	/

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

3. As specified by client, only test the designated sample

2. Test result of Pb

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1	2	3	
Lead (Pb)	Refer to EPA 3052-1996 &EPA 6010C-2007 ICP-OES	5	N.D.	23	N.D.	500
Conclusion		/	Pass	Pass	Pass	/

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

3. As specified by client, only test the designated sample

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3.

Name	CANDLE		
Assessment	1 candle(s) was burned during tested by EN 15493		
Colour of wax	White	Height	12-36mm
Perfumed wax	No	Diameter	37.05mm
Length of Wicks	10.6mm	Mass of wax	10.1g
Wick position	Centre	Sustainer type	Tea lights

Key

P — Pass

F — Fail

N/A — Not Applicable

N/C — Not conducted as per client's request

N/P — Not Provided

3.1. EN 15426-2007: Candles — Specification for sootting behaviour

Method Used: EN 15426:2007

Sample: CANDLE

-	Specimen 1	Specimen 2	Specimen 3
Initial weight of the candle, g	9.6	10.1	9.4
Burning time, h	1.83	1.67	1.42
Illuminance of the measuring with the cleaned glass plate, Lux	885×10	885×10	885×10
Illuminance of the measuring with the sooted glass plate, Lux	882×10	883×10	882×10
Soot index	0.34	0.23	0.34
Average soot index per hour, h ⁻¹	0.19	0.14	0.24
Average soot index of 3 tests, h ⁻¹	0.19		
Specification	The average soot index from tests(samples) shall be less than 1.0/h, no individual sample shall exceed 2.0/h		
Conclusion	Pass		

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3.2 EN 15493-2007: Candles — Specification for fire safety

Burn test cycles

Type of candle	Burn test cycles
Floating candles, container candles and candles marketed as selfextinguishing with a mass below 40 g (including tea lights)	Burn candle continuously until self-extinguishing

Test Results

Clause	Description	Result
4	Safety requirements	
4.1	Stability: Free-standing candles shall not tip over when tested on a slope of 10 °	N/A
4.2	Secondary ignition: No secondary ignition shall occur for more than 10 s	P
4.3	Flame height: The flame height for all candle types, except tea lights, shall not exceed 75 mm. The flame height for tea lights shall not exceed 30 mm.	P
4.4	Behaviour by self-extinguishing at the end of the burning process: Container candles and candles marketed as self-extinguishing shall, at the end of the burning time, self extinguish and, in the case of container candles, not cause the container to break.	P
4.5	Re-ignition after extinguishing: The wick shall not continue to glow or smoke for more than 20 s after extinguishing. After extinguishing the candle shall not spontaneously re-light.	P

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3.3 EN 15494-2007: Candles — Product safety labels

Test Results

Requirements		Result	
Safety information	<p>The following messages represent the minimum safety information with which a candle can be labeled:</p> <ol style="list-style-type: none"> 1. Never leave a burning candle unattended; 2. Burn candle out of the reach of children and pets; 3. Always leave at least xx cm between burning candles; 4. Do not burn candles on or near anything that can catch fire. 	P	
Layout of product safety label	<p>Form 1: general warning sign and supplementary safety information symbol; or Form 2: general warning sign and supplementary safety information text</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Safety information (as symbol (Form 1) or text (Form 2))</p> <p>Form 1</p> </div> <div style="text-align: center;">  <p>Safety information (as symbol (Form 1) or text (Form 2))</p> <p>Form 2</p> </div> </div>	Form 2	P

Sample description

1	White Candle
2	Glass candlestick
3	Candle wick

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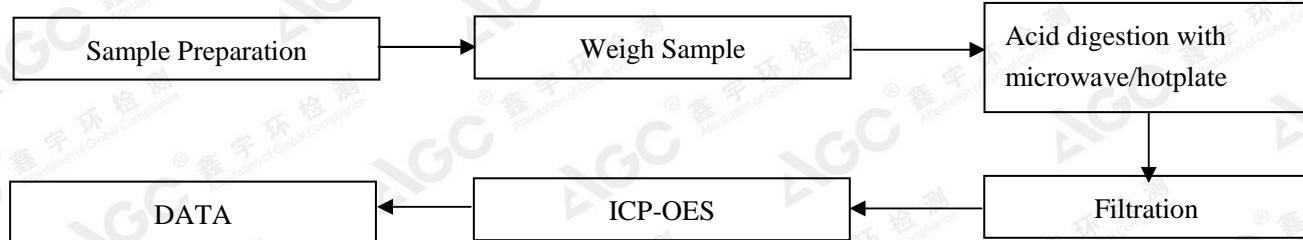
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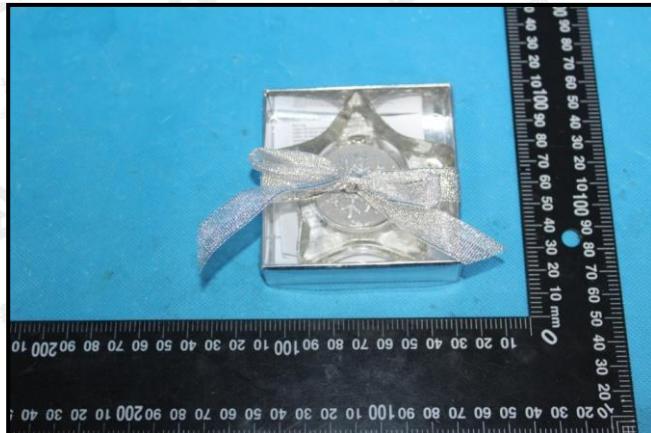
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Test Flow Chart

For Pb & Cd(Annex XVII)



The photo of the sample



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AGC authenticate the photo on original report only

*** End of Report***

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