

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 Lewis

Liujinliang, Jay.Liu / Liulinwen, Lewis

Laboratory Supervisor / Technical Director



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Test Requested:

Conclusion

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.
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.
3. As specified by client, to determine:
EN 15426-2007: Candles — Specification for sooting behaviour
EN 15493-2007: Candles — Specification for fire safety
EN 15494-2007: Candles — Product safety labels

Pass

Pass

Pass

Pass

Pass

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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	5	N.D.	N.D.	N.D.	100
Conclusion	&EPA 6010C-2007 ICP-OES	/	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	5	N.D.	23	N.D.	500
Conclusion	&EPA 6010C-2007 ICP-OES	/	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 sooting 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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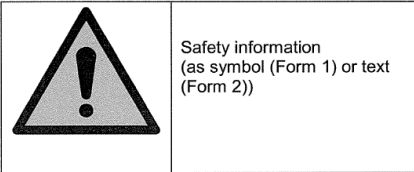
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3.3 EN 15494-2007: Candles — Product safety labels_

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	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">Safety information (as symbol (Form 1) or text (Form 2))</div> <p>Form 1</p> </div> <div style="text-align: center;">  <p>Form 2</p> </div> </div>	Form 2	P

Sample description

1	White Candle
2	Glass candlestick
3	Candle wick

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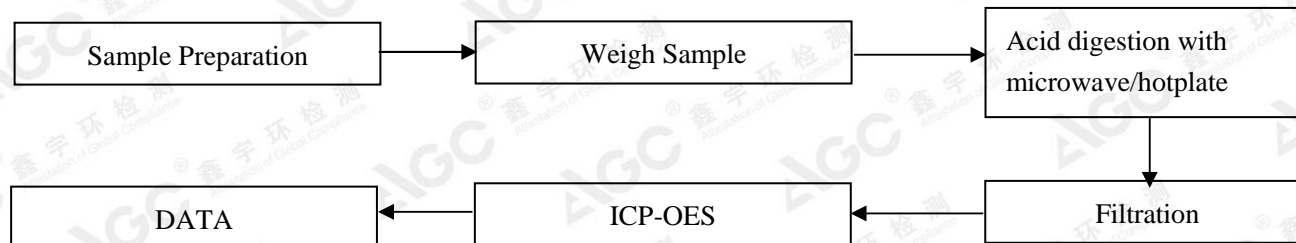
Report No.: A001R20171009065-2

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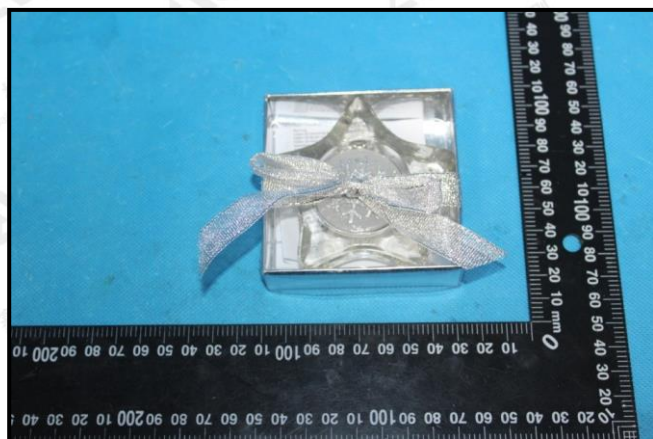
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Test Flow Chart

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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