



CTS

CENTRE OF TESTING SERVICE

TEST REPORT

No.: C3191220070-C

DATE: Jan. 2, 2020

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APPLICANT:

MID OCEAN BRANDS B.V.

7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

DESCRIPTION OF SAMPLES:

Sample Name : SET OF 6 CRAYONS SET
 Model No. : IT1329
 Brand Name : /
 Manufacturer Name : 111041
 Buyer Name : /
 Country of Origin : /
 Country of Destination : /
 Sample Receiving Date : Dec. 23, 2019
 Testing Period : Dec. 23, 2019 to Dec. 27, 2019
 Test Requested : Please refer to next page(s)
 Test Method : Please refer to next page(s)
 Test Results : Please refer to next page(s)

CONCLUSION:

Tested Samples	Test Requested	Conclusion
Tested Component of Submitted Sample	Benzene Content	PASS
	Phthalates Content	PASS
	Cadmium Content	PASS

Note: The tested part of the sample was specified by client.
 The test conclusion was given based on the results of tested part.

Authorized by: CTS (Ningbo) Testing Service Technology Co., Ltd.

Jane.Ye
Lab Manager



The measurement results only apply to the submitted samples.
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CTS (Ningbo) Testing Service Technology Co., Ltd.

Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

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TEST RESULTS:

1) Benzene Content

Samples were heated in the headspace vials and analyzed with Gas Chromatography Mass Spectrometer (HS-GC-MS).

Sample Description		Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		Benzene		
No.1*	(Blue/brown/rosy pink) crayon (mixed)	N.D.	1	5
No.2*	(Red/yellow/blue) plastic base (mixed)	N.D.	1	5
No.3*	(Green/purple) plastic base (mixed)	N.D.	1	5
No.4*	Brown plastic base/transparent plastic (mixed)	N.D.	1	5
No.5*	(Red/ yellow/ leaf green) crayon (mixed)	N.D.	1	5

- Note :
1. N.D.=Not Detected (less than MDL)
 2. 1mg/kg=1ppm=0.0001%
 3. MDL= Method Detect Limit
 4. The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009
 5. *The Testing results are based on the mixing of the sample which applicant required.

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2) Phthalates Content

With reference to EPA 3540C and EPA 8270D: Solvent extraction, followed by analysis using Gas Chromatography-Mass Spectrometry

Sample Description	Result (%)				Total (%)	Maximum Allowable Limit (%)
	DEHP	DBP	BBP	DIBP		
No.2* (Red/yellow/blue) plastic base (mixed)	0.015	N.D.	N.D.	N.D.	0.015	0.1
No.3* (Green/purple) plastic base (mixed)	N.D.	N.D.	N.D.	N.D.	N.D.	0.1
No.4* Brown plastic base/transparent plastic (mixed)	N.D.	N.D.	N.D.	N.D.	N.D.	0.1

Sample Description	Result (%)			Total (%)	Maximum Allowable Limit (%)
	DINP	DNOP	DIDP		
No.2* (Red/yellow/blue) plastic base (mixed)	N.D.	N.D.	N.D.	N.D.	0.1
No.3* (Green/purple) plastic base (mixed)	N.D.	N.D.	N.D.	N.D.	0.1
No.4* Brown plastic base/transparent plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1

- Note :
1. N.D.=Not Detected (<MDL)
 2. 1mg/kg=1ppm=0.0001%
 3. The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment (EU) 2018/2005.
 4. *The Testing results are based on the mixing of the sample which applicant required.
 5. The method detect limit for each Phthalates are:

Method Detect Limit		
Phthalates	DEHP (Di- (2-ethylhexyl)phthalate)	0.005%
	DBP (Dibutyl phthalate)	0.005%
	BBP (Benzyl butyl phthalate)	0.005%
	DIBP (Di-isobutyl phthalate)	0.005%
	DINP (Di-isononyl phthalate)	0.005%
	DNOP (Di-n-octyl phthalate)	0.005%
	DIDP (Di-isodecyl phthalate)	0.005%

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3) Cadmium Content

With reference to EN1122:2001B.

	Sample Description	Result (mg/kg)	Limit (mg/kg)
		Cadmium (Cd)	
No.1*	(Blue/brown/rosy pink) crayon (mixed)	N.D.	100
No.2*	(Red/yellow/blue) plastic base (mixed)	N.D.	100
No.3*	(Green/purple) plastic base (mixed)	N.D.	100
No.4*	Brown plastic base/transparent plastic (mixed)	N.D.	100
No.5*	(Red/ yellow/ leaf green) crayon (mixed)	N.D.	100

- Note
1. 1mg/kg=1ppm=0.0001%
 2. N.D. = not detected (less than 2 mg/kg)
 3. The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009 (formerly known as Directive 91/338/EEC).
 4. *The Testing results are based on the mixing of the sample which applicant required.

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SAMPLE REFERENCE PHOTO:



End of Report

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