



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **TEST REPORT**

**Test Report Number : CNB3170918-03184-C-R1**

**CTS (Ningbo) Testing Service Technology Co., Ltd.  
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**1 General Information****1.1 Application Details**

Name : MIDOCEAN BRANDS B.V.  
Address : HERMESWEG 9 3771 ND BARNEVELD THE NETHERLANDS  
Contact : /  
Telephone : /  
Fax : /  
Mobile telephone : /  
Email : /

**1.2 Manufacturer & Buyer**

Manufacturer name : /  
Address :  
Contact : /  
Telephone : /  
Fax : /  
Mobile telephone : /  
Email : /  
Buyer name : /

**1.3 Description of the Test Item**

Sample name : CRAYON SET  
Model No. : IT1329  
Brand name : /  
Condition of sample(s) : EFFECTIVE



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**2 Test Results**

**2.1 General Information**

**2.1.1 Sample Receiving Date**

Sep. 19, 2017

**2.1.2 Testing Period**

Sep. 19, 2017 to Sep. 27, 2017

**2.1.3 Test Requested**

Please refer to the following page(s)

**2.1.4 Test Method**

Please refer to the following page(s)

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### 2.2 Results

#### 2.2.1 Cadmium Content

With reference to EN1122:2001B

	Sample Description	Result (mg/kg)	Limit (mg/kg)	Conclusion
		Cadmium (Cd)		
No.1*	(Red/yellow/green) crayon (mixed)	N.D.	100	Pass
No.2*	(Blue/deep brown/pink) crayon (mixed)	N.D.	100	Pass
No.3*	(Red/yellow/green) plastic (mixed)	N.D.	100	Pass
No.4*	(Blue/deep brown/pink) plastic (mixed)	N.D.	100	Pass
No.5	Transparent plastic cover	N.D.	100	Pass

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, the mixed test results in this test report do not represent individual content of a single material.

#### 2.2.2 Benzene Content

With reference to EPA 5021, followed by analysis using Headspace/GC-MSD.

	Sample Description	Result (mg/kg)	Limit (mg/kg)	MDL (mg/kg)	Conclusion
		Benzene			
No.3*	(Red/yellow/green) plastic (mixed)	N.D.	N.D.	1	Pass
No.4*	(Blue/deep brown/pink) plastic (mixed)	N.D.	N.D.	1	Pass
No.5	Transparent plastic cover	N.D.	N.D.	1	Pass

Note : 1. N.D.=Not Detected (less than MDL)  
 2. 1mg/kg=1ppm=0.0001%  
 3. MDL= Method Detect Limit

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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, the mixed test results in this test report do not represent individual content of a single material.

### 2.2.3 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 (%)	Conclusion
		DEHP	DBP	BBP			
No.3*	(Red/yellow/green) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1	Pass
No.4*	(Blue/deep brown/pink) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1	Pass
No.5	Transparent plastic cover	N.D.	N.D.	N.D.	N.D.	0.1	Pass

Sample Description		Result (%)			Total (%)	Maximum Allowable Limit (%)	Conclusion
		DINP	DNOP	DIDP			
No.3*	(Red/yellow/green) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1	Pass
No.4*	(Blue/deep brown/pink) plastic (mixed)	N.D.	N.D.	N.D.	N.D.	0.1	Pass
No.5	Transparent plastic cover	N.D.	N.D.	N.D.	N.D.	0.1	Pass

- 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 No. 552/2009 (formerly known as Directive 2005/84/EC).  
 4. \*The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.  
 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%
	DINP (Di-isononyl phthalate)	0.005%
	DNOP (Di-n-octyl phthalate)	0.005%
	DIDP (Di-isodecyl phthalate)	0.005%

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### 224 DIBP Content

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

Sample Description		Result (%)	Limit (%)	Conclusion
		DIBP(Di-isobutyl phthalate)		
No.3*	(Red/yellow/green) plastic (mixed)	N.D.	0.1	Pass
No.4*	(Blue/deep brown/pink) plastic (mixed)	N.D.	0.1	Pass
No.5	Transparent plastic cover	N.D.	0.1	Pass

- Note :
- 1mg/kg=1ppm=0.0001%
  - N.D. = not detected (<MDL)
  - The method detect limit is 0.005%
  - The limit refers to SVHC of the REACH Regulation (EC) No.1907/2006.
  - \*The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.

### 225 Polycyclic Aromatic Hydrocarbon (PAHs) Content

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

Sample Description	No.3*	(Red/yellow/green) plastic (mixed)			
	No.4*	(Blue/deep brown/pink) plastic (mixed)			
	No.5	Transparent plastic cover			
Compounds	CAS Number	Result (mg/kg)			Maximum permissible limit (mg/kg)
		No.3*	No.4*	No.5	
(1) Benz(a)anthracene (BaA)	56-55-3	N.D.	N.D.	N.D.	<1.0
(2) Chrysene (CHR)	218-01-9	N.D.	N.D.	N.D.	<1.0
(3) Benzo(b)fluoranthene (BbF)	205-99-2	N.D.	N.D.	N.D.	<1.0
(4) Benzo(k)fluoranthene (BkF)	207-08-9	N.D.	N.D.	N.D.	<1.0
(5) Benzo(a)pyrene (BaP)	50-32-8	N.D.	N.D.	N.D.	<1.0
(6) Dibenz(a,h)anthracene (DBA)	53-70-3	N.D.	N.D.	N.D.	<1.0
(7) Benzo(j)fluoranthene (BjF)	205-82-3	N.D.	N.D.	N.D.	<1.0
(8) Benzo(e)pyrene (BeP)	192-97-2	N.D.	N.D.	N.D.	<1.0
Conclusion	--	Pass	Pass	Pass	--

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- Note :
- 1 mg/kg=1 ppm=0.0001%.
  - Method detection limit of each of the individual compound is 0.1 mg/kg.
  - N.D. = not detected (less than MDL).
  - The limit refers to ANNEX XVII of the REACH Regulation (EC) No.1907/2006 & Amendment No. 552/2009 (REGULATION (EU) No 1272/2013).
  - \*The Testing results are based on the mixing of the sample which applicant required, the mixed test results in this test report do not represent individual content of a single material.
  - The report is amended from the report CNB3170918-03184-C. The report CNB3170918-03184-C become invalid.

Written by: *Jessie*

Inspected *Suzei*

Approved by: *Jan* 

\*\*\* End of Report \*\*\*

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### 3 Sample Reference Photo



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