



# Test Report

Report No.: RKEYS250811346

Date: Sep. 04, 2025

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**Applicant:** Mid Ocean Brands B.V.

**Address:** Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

**Manufacturer:** 117486

**Address:** /

The following sample(s) was /were submitted and identified on behalf of the clients as:

**Sample Name:** Reminder bottle

**Sample Model:** MO6858,MO6856,MO6857

**Sample Received Date:** Aug. 11, 2025

**Testing Period:** Aug. 11, 2025 to Aug. 14, 2025

## Test Requested

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

\*\*\*\*\*

**Approved by:**

*Tony Qian*

**Tony Qian/Technical Manager**



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**Guangdong KEYS Testing Technology Co., Ltd.**

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## Summary of Test Results:

| Test Standard                                                                                                                                                                                               | Conclusion |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Selected test (s) in the selected parts as requested by client, Annex XVII to REACH and includes all the restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC. |            |
| 1. European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 50 on Polycyclic-aromatic hydrocarbons(PAH) content                                                                                      | Pass       |
| 2. European regulation (EU) No. 1907/2006 (REACH) annex XVII entry 51&52 on Phthalates content                                                                                                              | Pass       |

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## Test Result(s):

### 1. PAHs Content

Test Method: AfPS-GS-2019-01: PAK

Test Instrument: Gas Chromatographic-Mass Spectrometric (GC-MS)

| Test Item(s)                 | Unit  | MDL | Test Result (s) |      |      |      |
|------------------------------|-------|-----|-----------------|------|------|------|
|                              |       |     | 1               | 2    | 3    | 4    |
| Benzo[a]anthracene (BaA)     | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Chrysene (CHR)               | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Benzo[b]fluoranthene (BbF)   | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Benzo[k]fluoranthene (BkF)   | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Benzo[a]pyrene (BaP)         | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Dibenzo[a,h]anthracene (DBA) | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Benzo[j]fluoranthene         | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Benzo[e]pyrene               | mg/kg | 0.2 | N.D.            | N.D. | N.D. | N.D. |
| Sum of PAHs                  | mg/kg | --  | N.D.            | N.D. | N.D. | N.D. |

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Remark:

(1) (EU) No 1272/2013 amending Item No 50 of Annex XVII of REACH Regulation (EC) 1907/2006

| Parameter (mg/kg)      | Category 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Category 2                                                                                                                                                                                                                                  |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <p>Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use</p> <p>Such articles include amongst others:</p> <ul style="list-style-type: none"> <li>- sport equipment such as bicycles, golf clubs, racquets.</li> <li>- household utensils, trolleys, walking frames</li> <li>- tools for domestic use</li> <li>- clothing, footwear, gloves and sportswear</li> <li>- watch-straps, wrist-bands, masks, head-bands</li> </ul> | <p>Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use,</p> |
| Benzo[a]pyrene         | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |
| Benzo[e]pyrene         | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |
| Benzo[a]anthracene     | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |
| Benzo[b]fluoranthene   | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |
| Benzo[j]fluoranthene   | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |
| Benzo[k]fluoranthene   | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |
| Chrysene               | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |
| Dibenzo[a,h]anthracene | <1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <0.5                                                                                                                                                                                                                                        |

- Note:**
1. mg/kg= ppm
  2. N.D.= Not Detected(<MDL)
  3. MDL = Method Detection Limit

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## 2. Phthalates content

| Test Item | Test Method        | Test Equipment |
|-----------|--------------------|----------------|
| Phthalate | CPSC-CH-C1001-09.4 | GC-MS          |

| Test Item(s)                       | Unit  | MDL | Limit | Test Results |      |      |      |
|------------------------------------|-------|-----|-------|--------------|------|------|------|
|                                    |       |     |       | 1            | 2    | 3    | 4    |
| Dibutyl Phthalate(DBP)             | mg/kg | 30  | 1000  | N.D.         | N.D. | N.D. | N.D. |
| Benzyl butyl Phthalate (BBP)       | mg/kg | 30  |       | N.D.         | N.D. | N.D. | N.D. |
| Bis (2-ethylhexyl) phthalate(DEHP) | mg/kg | 30  |       | N.D.         | N.D. | N.D. | N.D. |
| Diisobutyl phthalate (DIBP)        | mg/kg | 30  |       | N.D.         | N.D. | N.D. | N.D. |
| Diisononyl Phthalate(DINP)         | mg/kg | 50  | 1000  | N.D.         | N.D. | N.D. | N.D. |
| Di-n-octyl Phthalate(DNOP)         | mg/kg | 30  |       | N.D.         | N.D. | N.D. | N.D. |
| Diisodecyl Phthalate (DIDP)        | mg/kg | 50  |       | N.D.         | N.D. | N.D. | N.D. |

- Note:**
1. mg/kg= ppm
  2. N.D.= Not Detected(<MDL)
  3. MDL = Method Detection Limit



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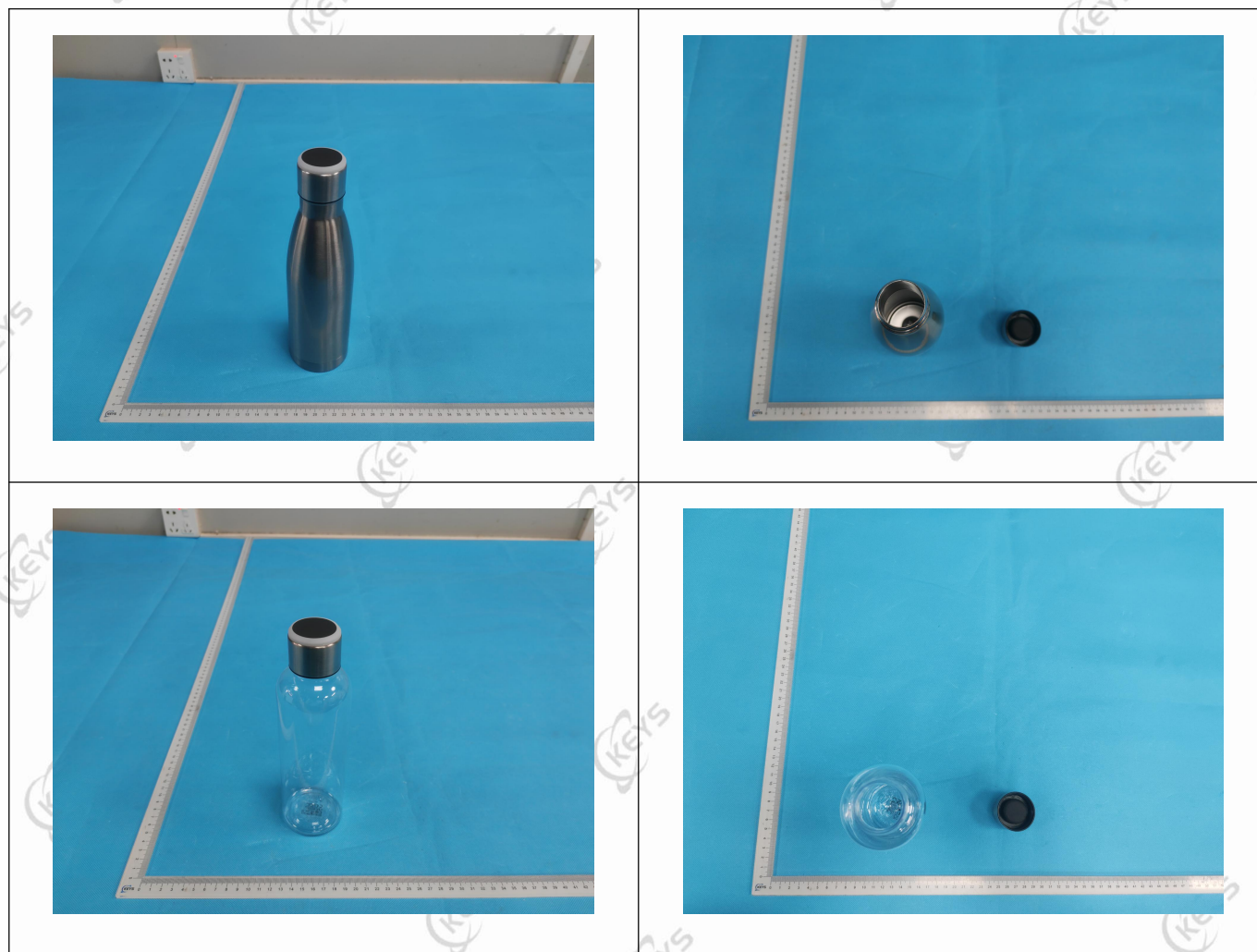
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## Sample Description:

| No. | Name                            |
|-----|---------------------------------|
| 1   | Black cup sleeves               |
| 2   | Transparent silicone gel        |
| 3   | Black cup lid(PP)               |
| 4   | Transparent bottle body(tritan) |

## Sample Photo:



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**Applicant:** Mid Ocean Brands B.V.  
**Address:** Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
**Manufacturer:** 117486  
**Address:** /

The following sample(s) was /were submitted and identified on behalf of the clients as :

**Sample Name:** Reminder bottle  
**Sample Model:** MO6858  
**Sample Received Date:** Aug. 11, 2025  
**Testing Period:** Aug. 11, 2025 to Aug. 14, 2025

## Test Requested:

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

\*\*\*\*\*

## Approved by:

**Tony Qian/ Technical Manager**



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## Summary of Test Results:

| Test Standard |                                                                                                                                                                                                                         | Conclusion |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1             | Textiles- Methods for determination of certain aromatic amines derived from azo colorants<br>Part 1: Detection of the use of certain azo colorants accessible with and without extracting the fibres (ISO 14362-1:2017) | Pass       |

## Test Result

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## Test method and Test equipment :

| Test Item | Test Method         | Test Equipment |
|-----------|---------------------|----------------|
| AZO       | EN ISO 14362-1:2017 | GC-MS          |

| No. | Substances                                                                      | Unit  | MDL | Limit | Test Result |
|-----|---------------------------------------------------------------------------------|-------|-----|-------|-------------|
|     |                                                                                 |       |     |       | 1           |
| 1   | Biphenyl-4-ylamine/4-aminodiphenyl/xeny<br>lamine                               | mg/kg | 5   | 30    | N.D.        |
| 2   | Benzidine                                                                       | mg/kg | 5   | 30    | N.D.        |
| 3   | 4-chloro-o-toluidine                                                            | mg/kg | 5   | 30    | N.D.        |
| 4   | 2-naphthylamine                                                                 | mg/kg | 5   | 30    | N.D.        |
| 5   | o-aminoazotoluene/4-amino-2',3-dimethyla<br>zobenzene/4-o-tolylazo-o-toluidine* | mg/kg | 5   | 30    | N.D.        |
| 6   | 2-amino-4-nitrotoluene/5-nitro-o-toluidine*                                     | mg/kg | 5   | 30    | N.D.        |
| 7   | 4-chloroaniline                                                                 | mg/kg | 5   | 30    | N.D.        |
| 8   | 4-methoxy-m-phenylenediamine                                                    | mg/kg | 5   | 30    | N.D.        |
| 9   | 4,4'-methylenedianiline/<br>4,4'-diaminodiphenylmethane                         | mg/kg | 5   | 30    | N.D.        |
| 10  | 3,3'-dichlorobenzidine/3,3'-dichlorobiphen<br>yl-4,4'-ylenediamine              | mg/kg | 5   | 30    | N.D.        |
| 11  | 3,3'-dimethoxybenzidine/o-dianisidine                                           | mg/kg | 5   | 30    | N.D.        |
| 12  | 3,3'-dimethylbenzidine/4,4-bi-o-toluidine                                       | mg/kg | 5   | 30    | N.D.        |
| 13  | 4,4'-methylenedi-o-toluidine                                                    | mg/kg | 5   | 30    | N.D.        |
| 14  | 6-methoxy-m-toluidine/p-cresidine                                               | mg/kg | 5   | 30    | N.D.        |
| 15  | 4,4'-methylene-bis-(2-chloroaniline)/2,2'-d<br>ichloro-4,4-methylene-dianiline  | mg/kg | 5   | 30    | N.D.        |
| 16  | 4,4'-oxydianiline                                                               | mg/kg | 5   | 30    | N.D.        |
| 17  | 4,4'-thiodianiline                                                              | mg/kg | 5   | 30    | N.D.        |
| 18  | o-toluidine/2-aminotoluene                                                      | mg/kg | 5   | 30    | N.D.        |
| 19  | 4-methyl-m-phenylenediamine/2,4-toluylen<br>diamine                             | mg/kg | 5   | 30    | N.D.        |

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| No. | Substances                   | Unit  | MDL | Limit | Test Result |
|-----|------------------------------|-------|-----|-------|-------------|
|     |                              |       |     |       | 1           |
| 20  | 2,4,5-trimethylaniline       | mg/kg | 5   | 30    | N.D.        |
| 21  | o-anisidine/2-methoxyaniline | mg/kg | 5   | 30    | N.D.        |
| 22  | 4-aminoazobenzene**          | mg/kg | 5   | 30    | N.D.        |
| 23  | 2,4-xylydine                 | mg/kg | 5   | 30    | N.D.        |
| 24  | 2,6-xylydine                 | mg/kg | 5   | 30    | N.D.        |

## Note:

- 1. mg/kg = ppm
- 2. N.D.= Not Detected (<MDL)
- 3. MDL = Method Detection Limit
- 4. \* = The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).
- 5. \*\* = Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylenediamine (CAS No. 106-50-3).Due to detection limits,only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017

## Sample Description:

| No. | Description       |
|-----|-------------------|
| 1   | Black cup sleeves |

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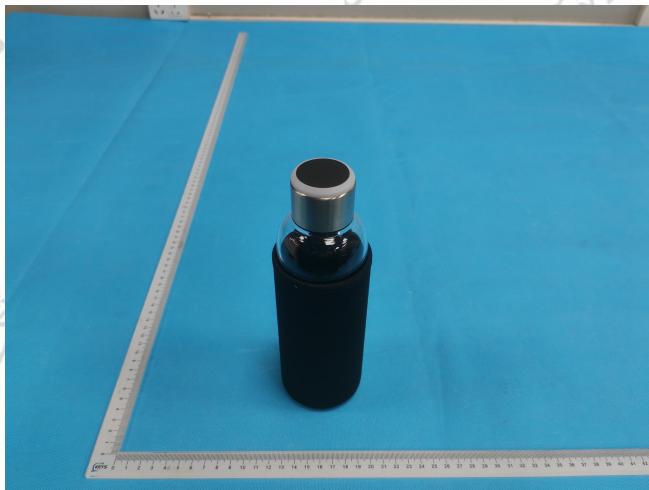
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## Sample Photo:



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**Applicant:** Mid Ocean Brands B.V.

**Address:** Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

**Manufacturer:** 117486

**Address:** /

The following sample(s) was /were submitted and identified on behalf of the clients as:

**Sample Name:** Reminder bottle

**Sample Model:** MO6858

**Sample Received Date:** Aug. 11, 2025

**Testing Period:** Aug. 11, 2025 to Aug. 14, 2025

**Test Requested:**

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

\*\*\*\*\*

**Approved by:**



**Tony Qian/Technical Manager**



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## Summary of Test Results:

| Test Standard |                                                                                                                                     | Conclusion |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1             | As specified by client, to determine the Colour Fastness to Rubbing in the submitted sample(s) in accordance with ISO 105-X12:2016. | Pass       |

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## Test Result:

### (1) Colour Fastness to Rubbing

Test Method: ISO 105-X12:2016, Size of Rubbing Finger: Circular 16 mm Diameter.

| Material No. | Test Item |        | Results(Grade) | Client's Requirement<br>(Min. Grade) | Conclusion |
|--------------|-----------|--------|----------------|--------------------------------------|------------|
| 1            | Dry       | Length | 4-5            | 2-3                                  | Pass       |
|              |           | Width  | -              | -                                    |            |
|              | Wet       | Length | 4              | 2-3                                  |            |
|              |           | Width  | -              | -                                    |            |

## Notes:

### Explanation of Colorfastness Results

|         |                                     |
|---------|-------------------------------------|
| Grade 5 | Negligible or No Change or Staining |
| Grade 4 | Slightly Changed or Stained         |
| Grade 3 | Noticeably Changed or Stained       |
| Grade 2 | Considerably Changed or Stained     |
| Grade 1 | Much Changed or Heavily Stained     |

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## Sample Description:

| No. | Description       |
|-----|-------------------|
| 1   | Black cup sleeves |

## Sample photo:



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