

Test Report

Report No.: CTT2209060771EN

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Applicant: Mid Ocean Brands B.V.

Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong kong.

Manufacturer:111021

Sample Received Date: Sep. 23, 2022

Completed Date: Oct. 17, 2022

Report Date: Oct. 18, 2022

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: MO6845

Buyer: MID OCEAN BRAND B.V.

Country of Origin: China

Manufacturer:

Manufacturer Address:

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

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

Signed for and on Behalf of CTT:

Ramon . Zhong

Ramon . Zhong
Technical Manager



Verification Report

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Test Requested and Conclusion(s):

No.	Standard and Requirement	Conclusion(s)
1	Dishwasher Safe Test (In house method)	PASS
2	Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food. - Volatile organic matter - Peroxide residues - Organotin	PASS
3	Client's requirements - Colour fastness to rubbing	PASS
4	Client's requirements - Specific migration of Formaldehyde	PASS
5	Client's requirements - Bisphenol A (BPA)	PASS
6	Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 and its amendment - Lead	PASS
7	Annex XVII items 23 of the REACH Regulation (EC) No. 1907/2006 and its amendment - Cadmium	PASS
8	Annex XVII items 43 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 - Azo Dyes	PASS
9	Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II - Polycyclic aromatic hydrocarbons	PASS
10	Annex XVII items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 and its amendment - Phthalates	PASS
11	COUNCIL DIRECTIVE 84/500/EEC on the approximation of the laws of the Member States relating to ceramic articles intended to come into contact with foodstuffs, and COMMISSION DIRECTIVE 2005/31/EC. - Migration of Lead & Cadmium	PASS
12	Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food. - Overall Migration	PASS

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13	Framework Resolution ResAP(2004)5 on silicones used for food contact applications. - Overall Migration	PASS
14	COMMISSION REGULATION (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food. - Overall Migration - Soluble heavy metal	PASS

Test Result(s):

Dishwasher safe test (In House Method) ^{s,n}.

No. of Specimen:	1 piece (Sample 9) for testing. Remains as control sample
No. of Cycles:	(10) cycles
Dishwasher:	Siemens SD6P1S
Detergent Brand:	Cascade
Washing condition:	
1. Cycle Time:	~ 90 Minutes.
2. Cycle Water Temperature:	Main Wash ~ 140 °F (60 °C) Rinse ~ 161 °F (72 °C)
3. Location inside dishwasher:	Bottom rack
Testing Procedure:	<ol style="list-style-type: none"> 1) Visually inspect sample and record any aesthetic defects. 2) Load into the dishwasher and run the wash cycle as per the above condition. 3) Examine from a distance of ~30cm and record any difference as compared with the control sample. 4) Repeat 2) ~ 3) until the required number of cycle is completed.
Test Requirement:	No deformation, staining of water (water mark), or substantial deterioration of item's appearance and/or function.
Conclusion(s):	PASS

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Test Result(s):

Volatile Organic Matter(VOM) - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Method: French Arrêté du 25 November 1992, ANNEX III^s

Material No.	Test Item	Reporting Limit (%)	Limit (%)	Result (%)	Conclusion
6	Volatile Organic Matter(VOM)	0.1	0.5	0.19	PASS

- NOTE:**
1. % = percentage.
 2. N.D. = Not Detected (Less than Reporting Limit).

Peroxides - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Method: French pharmacopoeia, Xth edition^s.

Material No.	Test Item	Limit	Result	Conclusion
6	Peroxides	Absent	Absent	PASS

Organotin - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Method: In house Method^{s,n}, analyzed by Gas Chromatography-Mass Spectrometer (GC-MS) or Inductively coupled plasma mass spectrometry (ICP-MS).

No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)
					6
1	Oganic tin	--	0.1	0.1	N.D.
2	Bis(tributyltin) oxide (TBTO)	56-35-9	--	0.1	N.D.
3	Di-n-propyl tin (DPrT)	2406-60-2	--	0.1	N.D.
4	Dibutyltin dichloride (DBTC)	683-18-1	--	0.1	N.D.
5	Dibutyltin hydrogen borate (DBB)	75113-37-0	--	0.1	N.D.
6	Dimethyltin (DMT)	23120-99-2	--	0.1	N.D.
7	Diphenyltin (DPhT)	6381-06-2	--	0.1	N.D.
8	Trimethyltin (TMT)	5089-96-3	--	0.1	N.D.
9	Trioctyltin (TOT)	869-59-0	--	0.1	N.D.
10	Tripropyltin (TPrT)	761-44-4	--	0.1	N.D.
Conclusion					PASS

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- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. The organotin content were reported as total tin, whenever the result of total tin exceed 0.1mg/kg and organotin confirm action test was performed.

Test Result(s):

Colour fastness to rubbing

Method: ISO 105-X12:2016, Size of rubbing finger: circular 16 mm diameter.

Material No.	Test Item		Client's Requirement (Min. Grade)	Results (Grade)	Conclusion
8	Length	Dry (Colour Staining)	4	4-5	PASS
		Wet (Colour Staining)	3	4-5	

Note:

Explanation of Colour fastness 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

Specific migration of Formaldehyde - Client's requirements

Method: CEN/TS 13130-23:2005, analyzed by UV Spectrophotometer (UV) .

Material No.	Test Condition	Reporting Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)	Conclusion
7*	3% Acetic acid(w/v) ,70°C ,2h	3.0	15	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "*" = This sample is received on Oct. 13, 2022.

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Test Result(s):

Bisphenol A (BPA) - Client's requirements

Method: EPA 3550C:2007", analyzed by Ultra High Performance Liquid Chromatography-Mass Spectrometry (UPLC-MS/MS) .

Substances	BPA	Conclusion
CAS No.	80-05-7	
Reporting Limit (mg/kg)	0.1	
Limit (mg/kg)	0.1	
Material No.	Result (mg/kg)	
5	N.D.	PASS
6	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).

Lead - Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1002-08.3, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Pb	Conclusion
CAS No.	7439-92-1	
Reporting Limit (mg/kg)	10	
Limit (mg/kg)	500	
Material No.	Result (mg/kg)	
1+2+3	N.D.	PASS
4	72	PASS
5+6	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

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Test Result(s):

Cadmium - Annex XVII items 23 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-E1002-08.3ⁿ, analyzed by Atomic Absorption Spectrometer (AAS) .

Substances	Cd	Conclusion
CAS No.	7440-43-9	
Reporting Limit (mg/kg)	2	
Limit (mg/kg)	100	
Material No.	Result (mg/kg)	
1+2+3	N.D.	PASS
5+6	N.D.	PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

Azo Dyes - Annex XVII items 43 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009

Method: EN ISO 14362-1:2017 & EN ISO 14362-3:2017, analyzed by Gas Chromatography-Mass Spectrometer (GC-MS) .

No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)
					8
1	4-Aminobiphenyl	92-67-1	30	5	N.D.
2	Benzidine	92-87-5	30	5	N.D.
3	4-Chloro-o-toluidine	95-69-2	30	5	N.D.
4	2-Naphthylamine	91-59-8	30	5	N.D.
5	o-Aminoazotoluene	97-56-3	30	5	N.D.
6	5-Nitro-o-toluidine	99-55-8	30	5	N.D.
7	p-Chloroaniline	106-47-8	30	5	N.D.
8	2,4-Diaminoanisole	615-05-4	30	5	N.D.
9	4,4'-Diaminodiphenylmethane	101-77-9	30	5	N.D.
10	3,3'-Dichlorobenzidine	91-94-1	30	5	N.D.
11	3,3'-Dimethoxybenzidine	119-90-4	30	5	N.D.
12	3,3'-Dimethylbenzidine	119-93-7	30	5	N.D.
13	3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	30	5	N.D.

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14	p-Cresidine	120-71-8	30	5	N.D.
15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	30	5	N.D.
16	4,4'-Oxydianiline	101-80-4	30	5	N.D.
17	4,4'-Thiodianiline	139-65-1	30	5	N.D.
18	o-Toluidine	95-53-4	30	5	N.D.
19	2,4-Toluylenediamine	95-80-7	30	5	N.D.
20	2,4,5-Trimethylaniline	137-17-7	30	5	N.D.
21	o-Anisidine	90-04-0	30	5	N.D.
22	4-Aminoazobenzene	60-09-3	30	5	N.D.
Conclusion					PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).

Test Result(s):

Polycyclic aromatic hydrocarbons - Annex XVII items 50 of the REACH Regulation (EC) No 1907/2006 Class II

Method: AfPS GS 2019:01 PAK, analyzed by Gas Chromatography-Mass Spectrometer (GC-MS) .

No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)
					1+2+3
1	Benzo(a)anthracene(BaA)	56-55-3	1	0.20	N.D.
2	Chrysene(CHR)	218-01-9	1	0.20	N.D.
3	Benzo(b)fluoranthene(BbF)	205-99-2	1	0.20	N.D.
4	Benzo(k)fluoranthene(BkF)	207-08-9	1	0.20	N.D.
5	Benzo(a)pyrene(BaP)	50-32-8	1	0.20	N.D.
6	Dibenzo(a,h)anthracene(DBA)	53-70-3	1	0.20	N.D.
7	Benzo(e)pyrene(BeP)	192-97-2	1	0.20	N.D.
8	Benzo(j)fluoranthene(BjF)	205-82-3	1	0.20	N.D.
Conclusion					PASS

- NOTE:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "--" = Not Regulated.
 4. Product Class:
I = Extender oils.

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II = Rubber or plastic components 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.

III = Toys, including activity toys, and childcare articles, if any of their rubber or plastic components 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.

5. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

Phthalates - Annex XVII items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 and its amendment

Method: CPSC-CH-C1001-09.4, analyzed by Gas Chromatography-Mass Spectrometer (GC-MS) .

No.	Substances Name	CAS No.	Limit (mg/kg)	Reporting Limit (mg/kg)	Result (mg/kg)	
					1+2+3	5+6
1	Di-butyl phthalate (DBP)	84-74-2	--	50	N.D.	N.D.
2	Butyl benzyl phthalate (BBP)	85-68-7	--	50	N.D.	N.D.
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	--	50	N.D.	N.D.
4	Phthalic acid, bis-n-octyl ester (DNOP)	117-84-0	--	50	N.D.	N.D.
5	Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	--	100	N.D.	N.D.
6	Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	--	100	N.D.	N.D.
7	Di-iso-butyl phthalate (DIBP)	84-69-5	--	50	N.D.	N.D.
8	SUM(DEHP+DBP+BBP+DIBP)	--	1000	50	N.D.	N.D.
9	SUM(DNOP+DINP+DIDP)	--	1000	100	N.D.	N.D.
Conclusion					PASS	PASS

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Test Result(s):

Migration of Lead & Cadmium - COUNCIL DIRECTIVE 84/500/EEC on the approximation of the laws of the Member States relating to ceramic articles intended to come into contact with foodstuffs, and COMMISSION DIRECTIVE 2005/31/EC.

Method: 84/500/EEC ANNEX II, analyzed by Atomic Absorption Spectrometer(AAS).

Material No.	Element	Reporting Limit(mg/L)	Limit(mg/L)	Result(mg/L)	Conclusion
4	Lead(Pb)	0.1	4.0	N.D.	PASS
	Cadmium(Cd)	0.01	0.30	N.D.	

- NOTE:**
1. mg/L = milligram per liter.
 2. N.D. = Not Detected (Less than Reporting Limit).

Overall Migration - Decree of 25 November 1992 on materials and articles made of elastomer silicone placed or intended to be in contact with foodstuffs, products and beverages food.

Material No.	Test Condition	Reporting Limit (mg/dm ²)	Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
6D	10% Ethanol(v/v) ,70°C ,2h	3.0	10	N.D.	PASS
	3% Acetic acid(w/v) ,70°C ,2h	3.0	10	N.D.	

- NOTE:**
1. mg/dm²=milligram per square decimeter.
 2. N.D. = Not Detected (Less than Reporting Limit).
 3. "D" = The result(s) is(are) tested according to the method EN1186-1:2002&EN 1186-3:2002.

Overall Migration - European Council Resolution ResAP (2004) 5 - Silicone resin for anticipated exposure to food.

Method: EN1186-1:2002&EN 1186-3:2002

Material No.	Test Condition	Reporting Limit (mg/dm ²)	Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
6	10% Ethanol(v/v) ,70°C ,2h	3.0	10	N.D.	PASS
	3% Acetic acid(w/v) ,70°C ,2h	3.0	10	N.D.	

- NOTE:**
1. mg/dm²=milligram per square decimeter.
 2. N.D. = Not Detected (Less than Reporting Limit).

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Test Result(s):

Overall Migration - COMMISSION REGULATION (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

Method: EN1186-1:2002&EN 1186-3:2002

Material No.	Test Condition	Test Item	Reporting Limit (mg/dm ²)	Limit (mg/dm ²)	Result (mg/dm ²)	Conclusion
5	10% Ethanol(v/v) ,70°C ,2h	Overall Migration (1st)	3.0	10	N.D.	PASS
	10% Ethanol(v/v) ,70°C ,2h	Overall Migration (2nd)	3.0	10	N.D.	
	10% Ethanol(v/v) ,70°C ,2h	Overall Migration (3rd)	3.0	10	N.D.	
5	3% Acetic acid(w/v) ,70°C ,2h	Overall Migration (1st)	3.0	10	N.D.	PASS
	3% Acetic acid(w/v) ,70°C ,2h	Overall Migration (2nd)	3.0	10	N.D.	
	3% Acetic acid(w/v) ,70°C ,2h	Overall Migration (3rd)	3.0	10	N.D.	

NOTE:

1. mg/dm²=milligram per square decimeter.
2. N.D. = Not Detected (Less than Reporting Limit).

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Test Result(s):

Soluble heavy metal - COMMISSION REGULATION (EU) 2020/1245 of 2 September 2020 amending and correcting Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

Method: BS EN13130-1:2004ⁿ, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

No.	Elements	Limit (mg/kg)	Results (mg/kg)		
			5		
			1st	2nd	3rd
1	Barium (Ba)	1	<0.1	<0.1	<0.1
2	Cobalt (Co)	0.05	<0.05	<0.05	<0.05
3	Copper (Cu)	5	<0.5	<0.5	<0.5
4	Iron (Fe)	48	<1	<1	<1
5	Lithium (Li)	0.6	<0.1	<0.1	<0.1
6	Manganese (Mn)	0.6	<0.05	<0.05	<0.05
7	Zinc (Zn)	5	<1	<1	<1
8	Aluminium (Al)	1	<0.1	<0.1	<0.1
9	Nickel (Ni)	0.02	<0.01	<0.01	<0.01
10	Lead (Pb)	0.01	<0.01	<0.01	<0.01
11	Cadmium (Cd)	0.002	<0.002	<0.002	<0.002
12	Arsenic (As)	0.01	<0.01	<0.01	<0.01
13	Mercury (Hg)	0.01	<0.01	<0.01	<0.01
14	Chromium (Cr)	0.01	<0.01	<0.01	<0.01
15	Antimony (Sb)	0.04	<0.02	<0.02	<0.02
16	Europium (Eu)	0.05	<0.01	<0.01	<0.01
17	Gadolinium (Gd)				
18	Lanthanum (La)				
19	Terbium (Tb)				
Conclusion			PASS		

- Note:**
1. Test Condition: 3% Acetic acid(w/v),70°C for 2 hours
 2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 3. The results of the three migration tests should show a decreasing trend, and the results of the third test should be used to determine the compliance.

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Test Report

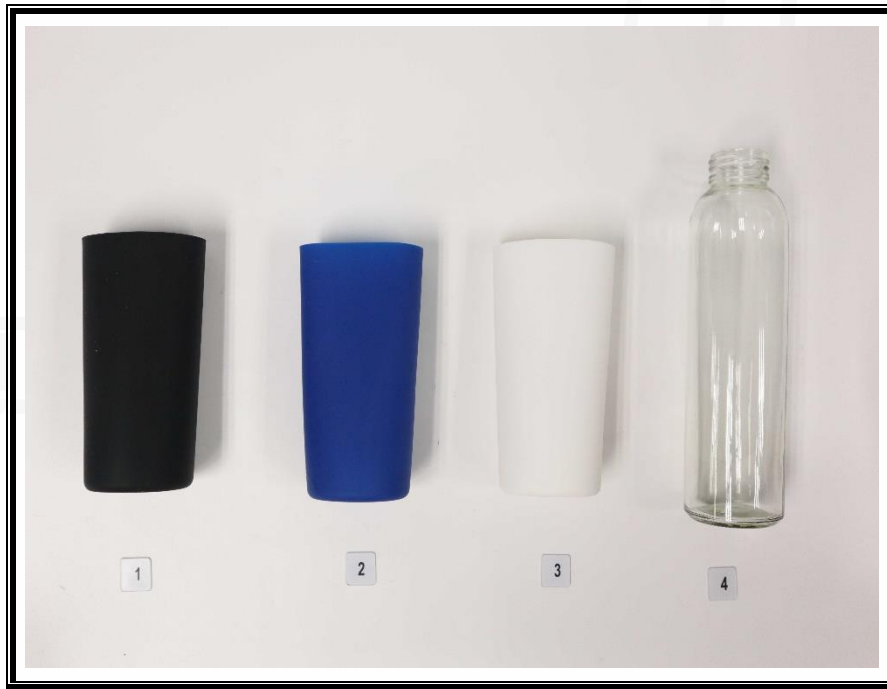
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Test Material List

Material No.	Sample Description	Location
1	Black silicone	Silicone cover
2	Blue silicone	Silicone cover
3	White silicone	Silicone cover
4	Transparent glass	Bottle body
5	White plastic (PP)	Inside lid
6	Transparent silicone	Seal ring
7	Yellowish brown bamboo	Lid
8	Brown fibre	Rope
9	Black silicone retainer cup	Individual

Photo of Sample:



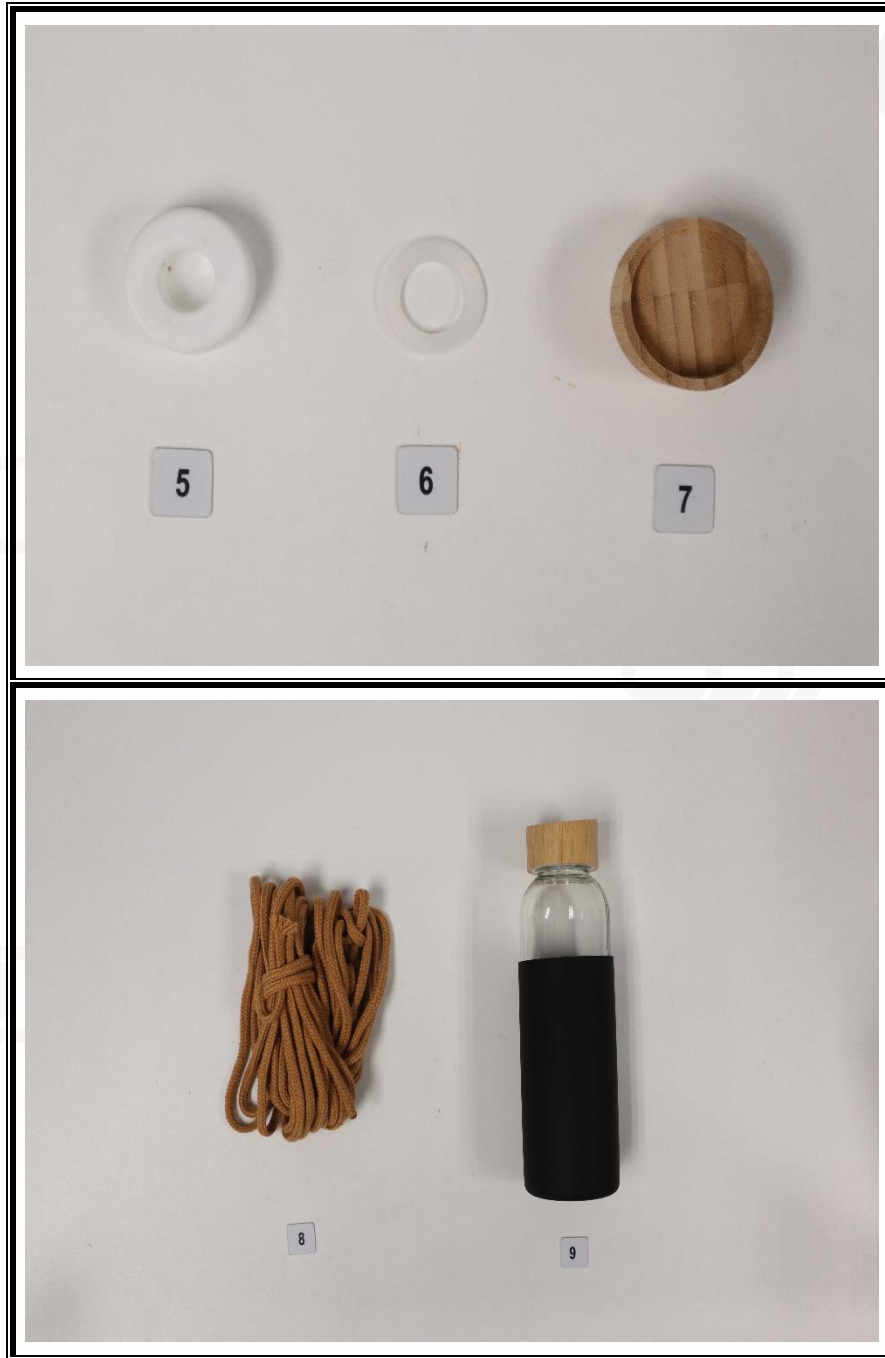
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End of Report

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