

Test Report

No. : CT/2019/40465

Date : 2019/04/19

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SONISON BABY PRODUCTS CO., LTD
1F., NO. 64, LIULU 14TH ST., SHALU DIST., TAICHUNG CITY 433, TAIWAN (R.O.C.)



The following samples was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : SONISON BABY PRODUCTS CO., LTD.
Sample Description : DOROTHY WONDERLAND PPSU WIDE NECK FEEDING BOTTLE (UNICORN, HUMMINGBIRD, FAWN)
Style/Item No. : P61730、P61731、P61734、P61860、P61861、P61864、P61830、P61831、P61834、P61630、P61631、P61634、P61620、P61621、P61624、P61870、P61871、P61874
Sample Material : NO.1~8:PP, NO.9:SILICONE, NO.10:PP, NO.11:SILICONE, NO.12:PPSU
Country of Origin : TAIWAN
Sample Receiving Date : 2019/04/10
Testing Period : 2019/02/19 TO 2019/02/27 AND 2019/04/08 TO 2019/04/17 AND 2019/04/10 TO 2019/04/19

Test Requested : (1) As specified by client, the sample(s) was/were tested with reference to Commission Regulation (EU) No. 10/2011 with amendments and hence Article 3 of European Regulation No. 1935/2004. Please refer to result table for testing item(s).
(2) Please refer to result table for other testing item(s).

Test Result(s) : Please refer to following pages.

* Some test results in this report were quoted from those of the same colors/materials/parts in report CT/2019/20500A,CT/2019/40256,CT/2019/40430,CT/2019/40438,CT/2019/40452 and CT/2019/40465 *


Singh Hsiao / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD
Chemical Laboratory - Taipei



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Test Result(s)

- PART NAME No.1 : TRANSPARENT PLASTIC (CAP) (CT/2019/40430 No.1)
- PART NAME No.2 : BLUE PLASTIC (NECK CAP)
- PART NAME No.3 : PINK PLASTIC (NECK CAP) (CT/2019/40452 No.3)
- PART NAME No.4 : GREEN PLASTIC (NECK CAP) (CT/2019/40452 No.4)
- PART NAME No.5 : BLUE PLASTIC (HANDLE) (CT/2019/40465 No.2)
- PART NAME No.6 : PINK PLASTIC (HANDLE) (CT/2019/40452 No.3)
- PART NAME No.7 : GREEN PLASTIC (HANDLE) (CT/2019/40452 No.4)
- PART NAME No.8 : MILKY PLASTIC (TUBE ADAPTOR) (CT/2019/40438 No.8)
- PART NAME No.9 : TRANSPARENT SILICONE (STRAW) (CT/2019/40256 No.16)
- PART NAME No.10 : WHITE PLASTIC (TUBE BEAD) (CT/2019/40256 No.17)
- PART NAME No.11 : SILICONE NIPPLE (CT/2019/20500A No.1)
- PART NAME No.12 : TRANSPARENT-AMBER PLASTIC CUP (CT/2019/40256 No.18)

(1)

PASS

Test Item(s)	Unit	Method	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Overall migration (3% Acetic Acid) (3rd migration)	mg/dm ²	With reference to EN 1186 (2002). (70°C for 2 hr)	3.0	n.d. (※2)	n.d.	---	---	n.d. (※5)	10
Overall migration (50% Ethanol) (3rd migration)	mg/dm ²		3.0	n.d. (※2)	n.d.	---	---	n.d. (※5)	10
Phthalates									
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372 (2004). Analysis was performed by GC/MS.	0.003	n.d. (※2)	---	n.d. (※4)	---	---	0.1 (□ 1)
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d. (※2)	---	n.d. (※4)	---	---	0.05 (□ 1)
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%		0.003	n.d. (※2)	---	n.d. (※4)	---	---	0.1 (□ 1)
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%		0.01	n.d. (※2)	---	n.d. (※4)	---	---	0.1 (□ 1)
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%		0.01	n.d. (※2)	---	n.d. (※4)	---	---	0.1 (□ 1)

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(1)

Test Item(s)	Unit	Method	MDL	Result					Limit
				No.1	No.2	No.3	No.4	No.5	
Specific Migration of Heavy									(□ 1)
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 70°C, 2 hr)	0.25	n.d. (※2)	---	---	n.d. (※4)	---	1
Cobalt(Co) (3rd migration)	mg/kg		0.01	n.d. (※2)	---	---	n.d. (※4)	---	0.05
Copper(Cu) (3rd migration)	mg/kg		0.25	n.d. (※2)	---	---	n.d. (※4)	---	5
Iron(Fe) (3rd migration)	mg/kg		0.25	n.d. (※2)	---	---	n.d. (※4)	---	48
Lithium(Li) (3rd migration)	mg/kg		0.5	n.d. (※2)	---	---	n.d. (※4)	---	0.6
Manganese(Mn) (3rd migration)	mg/kg		0.25	n.d. (※2)	---	---	n.d. (※4)	---	0.6
Zinc(Zn) (3rd migration)	mg/kg		0.5	n.d. (※2)	---	---	n.d. (※4)	---	5
Aluminum (Al) (3rd migration)	mg/kg		0.25	n.d. (※2)	---	---	n.d. (※4)	---	1
Nickel (Ni) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (3% acetic acid, 70°C, 2 hr)	0.01	n.d. (※2)	---	---	n.d. (※4)	---	0.02

Test Item(s)	Unit	Method	MDL	Result					Limit
				No.6	No.7	No.8	No.9	No.10	
Overall migration (3% Acetic Acid) (3rd migration)	mg/dm ²	With reference to EN 1186 (2002). (70°C for 2 hr)	3.0	---	---	n.d. (※3)	---	---	10
Overall migration (50% Ethanol) (3rd migration)	mg/dm ²		3.0	---	---	n.d. (※3)	---	---	10

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(1)

Test Item(s)	Unit	Method	MDL	Result					Limit
				No.6	No.7	No.8	No.9	No.10	
Phthalates									
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372 (2004). Analysis was performed by GC/MS.	0.003	n.d. (※4)	---	n.d. (※3)	---	---	0.1 (□ 1)
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d. (※4)	---	n.d. (※3)	---	---	0.05 (□ 1)
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%		0.003	n.d. (※4)	---	n.d. (※3)	---	---	0.1 (□ 1)
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%		0.01	n.d. (※4)	---	n.d. (※3)	---	---	0.1 (□ 1)
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%		0.01	n.d. (※4)	---	n.d. (※3)	---	---	0.1 (□ 1)
									(□ 1)
Specific Migration of Heavy									
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 70°C, 2 hr)	0.25	---	n.d. (※4)	---	---	n.d. (※1)	1
Cobalt(Co) (3rd migration)	mg/kg		0.01	---	n.d. (※4)	---	---	n.d. (※1)	0.05
Copper(Cu) (3rd migration)	mg/kg		0.25	---	n.d. (※4)	---	---	n.d. (※1)	5
Iron(Fe) (3rd migration)	mg/kg		0.25	---	n.d. (※4)	---	---	n.d. (※1)	48
Lithium(Li) (3rd migration)	mg/kg		0.5	---	n.d. (※4)	---	---	n.d. (※1)	0.6
Manganese(Mn) (3rd migration)	mg/kg		0.25	---	n.d. (※4)	---	---	n.d. (※1)	0.6
Zinc(Zn) (3rd migration)	mg/kg		0.5	---	n.d. (※4)	---	---	n.d. (※1)	5
Aluminum (Al) (3rd migration)	mg/kg		0.25	---	n.d. (※4)	---	---	n.d. (※1)	1
Nickel (Ni) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (3% acetic acid, 70°C, 2 hr)	0.01	---	n.d. (※4)	---	---	n.d. (※1)	0.02

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(1)

Test Item(s)	Unit	Method	MDL	Result		Limit
				No.11	No.12	
Overall migration (3% Acetic Acid) (3rd migration)	mg/dm ²	With reference to EN 1186 (2002). (70°C for 2 hr)	3.0	---	n.d. (※1)	10
Overall migration (50% Ethanol) (3rd migration)	mg/dm ²		3.0	---	n.d. (※1)	10
Phthalates						
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372 (2004). Analysis was performed by GC/MS.	0.003	---	n.d. (※1)	0.1 (□ 1)
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	---	n.d. (※1)	0.05 (□ 1)
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%		0.003	---	n.d. (※1)	0.1 (□ 1)
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%		0.01	---	n.d. (※1)	0.1 (□ 1)
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%		0.01	---	n.d. (※1)	0.1 (□ 1)
Specific Migration of Heavy						(□ 1)
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 70°C, 2 hr)	0.25	---	n.d. (※1)	1
Cobalt(Co) (3rd migration)	mg/kg		0.01	---	n.d. (※1)	0.05
Copper(Cu) (3rd migration)	mg/kg		0.25	---	n.d. (※1)	5
Iron(Fe) (3rd migration)	mg/kg		0.25	---	n.d. (※1)	48
Lithium(Li) (3rd migration)	mg/kg		0.5	---	n.d. (※1)	0.6
Manganese(Mn) (3rd migration)	mg/kg		0.25	---	n.d. (※1)	0.6
Zinc(Zn) (3rd migration)	mg/kg		0.5	---	n.d. (※1)	5
Aluminum (Al) (3rd migration)	mg/kg		0.25	---	n.d. (※1)	1
Nickel (Ni) (3rd migration)	mg/kg		0.01	---	n.d. (※1)	0.02

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(2)

Test Item(s)	Unit	Method	MDL	Result					Limit
				No.6	No.7	No.8	No.9	No.10	
Specific Migration of Heavy									
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 70°C, 1 hr)	0.25	---	---	---	n.d. (※1)	---	-
Cobalt(Co) (3rd migration)	mg/kg		0.01	---	---	---	n.d. (※1)	---	-
Copper(Cu) (3rd migration)	mg/kg		0.25	---	---	---	n.d. (※1)	---	-
Iron(Fe) (3rd migration)	mg/kg		0.25	---	---	---	n.d. (※1)	---	-
Lithium(Li) (3rd migration)	mg/kg		0.5	---	---	---	n.d. (※1)	---	-
Manganese(Mn) (3rd migration)	mg/kg		0.25	---	---	---	n.d. (※1)	---	-
Zinc(Zn) (3rd migration)	mg/kg		0.5	---	---	---	n.d. (※1)	---	-
Aluminum (Al) (3rd migration)	mg/kg		0.25	---	---	---	n.d. (※1)	---	-
Nickel (Ni) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (3% acetic acid, 70°C, 1 hr)	0.01	---	---	---	n.d. (※1)	---	-

Test Item(s)	Unit	Method	MDL	Result		Limit
				No.11	No.12	
Overall migration (3% Acetic Acid) (3rd migration)	mg/dm ²	With reference to EN 1186 (2002). (70°C for 2 hr)	3.0	n.d. (※)	---	-
Overall migration (10% Ethanol) (3rd migration)	mg/dm ²		3.0	n.d. (※)	---	-
Overall migration (50% Ethanol) (3rd migration)	mg/dm ²		3.0	n.d. (※)	---	-

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(2)

Test Item(s)	Unit	Method	MDL	Result		Limit
				No.11	No.12	
Phthalates						
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372 (2004). Analysis was performed by GC/MS.	0.003	n.d. (⊗)	---	-
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%		0.003	n.d. (⊗)	---	-
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%		0.003	n.d. (⊗)	---	-
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%		0.01	n.d. (⊗)	---	-
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%		0.01	n.d. (⊗)	---	-
Specific Migration of Heavy						
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (3% Acetic acid, 70°C, 1 hr)	0.25	n.d. (⊗)	---	-
Cobalt(Co) (3rd migration)	mg/kg		0.01	n.d. (⊗)	---	-
Copper(Cu) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Iron(Fe) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Lithium(Li) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Manganese(Mn) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Zinc(Zn) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Aluminum (Al) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Nickel (Ni) (3rd migration)	mg/kg		0.01	n.d. (⊗)	---	-

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(2)

Test Item(s)	Unit	Method	MDL	Result		Limit
				No.11	No.12	
Specific Migration of Heavy						
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (10% ethanol, 70°C, 1 hr)	0.25	n.d. (⊗)	---	-
Cobalt(Co) (3rd migration)	mg/kg		0.01	n.d. (⊗)	---	-
Copper(Cu) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Iron(Fe) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Lithium(Li) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Manganese(Mn) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Zinc(Zn) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Aluminum (Al) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Nickel (Ni) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (10% ethanol, 70°C, 1 hr)	0.01	n.d. (⊗)	---	-

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SONISON BABY PRODUCTS CO., LTD

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(2)

Test Item(s)	Unit	Method	MDL	Result		Limit
				No.11	No.12	
Specific Migration of Heavy						
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (20% ethanol, 70°C, 1 hr)	0.25	n.d. (⊗)	---	-
Cobalt(Co) (3rd migration)	mg/kg		0.01	n.d. (⊗)	---	-
Copper(Cu) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Iron(Fe) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Lithium(Li) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Manganese(Mn) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Zinc(Zn) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Aluminum (Al) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Nickel (Ni) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (20% ethanol, 70°C, 1 hr)	0.01	n.d. (⊗)	---	-

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1F., NO. 64, LIULU 14TH ST., SHALU DIST., TAICHUNG CITY 433, TAIWAN (R.O.C.)



(2)

Test Item(s)	Unit	Method	MDL	Result		Limit
				No.11	No.12	
Specific Migration of Heavy						
Barium(Ba) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-AES. (50% ethanol, 70°C, 1 hr)	0.25	n.d. (⊗)	---	-
Cobalt(Co) (3rd migration)	mg/kg		0.01	n.d. (⊗)	---	-
Copper(Cu) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Iron(Fe) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Lithium(Li) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Manganese(Mn) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Zinc(Zn) (3rd migration)	mg/kg		0.5	n.d. (⊗)	---	-
Aluminum (Al) (3rd migration)	mg/kg		0.25	n.d. (⊗)	---	-
Nickel (Ni) (3rd migration)	mg/kg	With reference to EN 13130-1 (2004). Analysis was performed by ICP-MS. (50% ethanol, 70°C, 1 hr)	0.01	n.d. (⊗)	---	-

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Remark :

- (1) : Limit is according to Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments.

Note :

1. mg/kg = ppm ; mg/dm² = milligram per square decimeter ; % =percentage of weight by weight ;
2. MDL = Method Detection Limit
3. n.d. = Not Detected = below MDL
4. "---" = Not Conducted
5. - = Not Regulated
6. °C = degree Celsius
7. Test condition & simulant were specified by client.
8. (※): Reference to CT/2019/20500A.
9. (※1): Reference to CT/2019/40256.
10. (※2): Reference to CT/2019/40430.
11. (※3): Reference to CT/2019/40438.
12. (※4): Reference to CT/2019/40452.
13. (※5): Reference to CT/2019/40465 No.2

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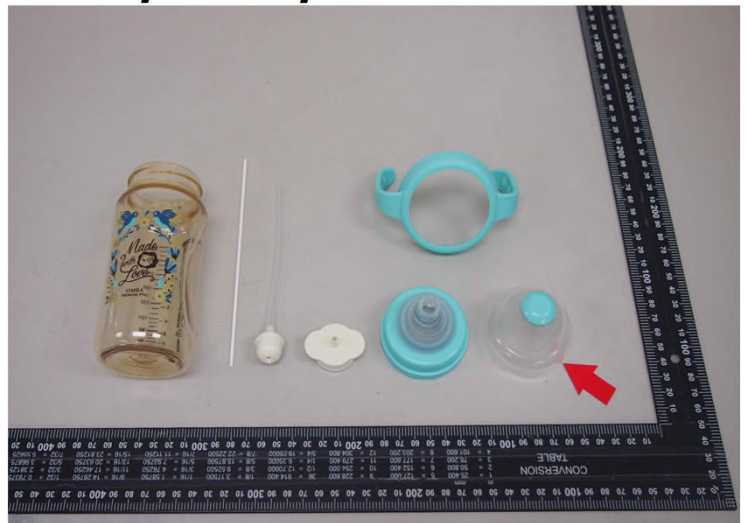


* The tested sample / part is marked by an arrow if it's shown on the photo. *

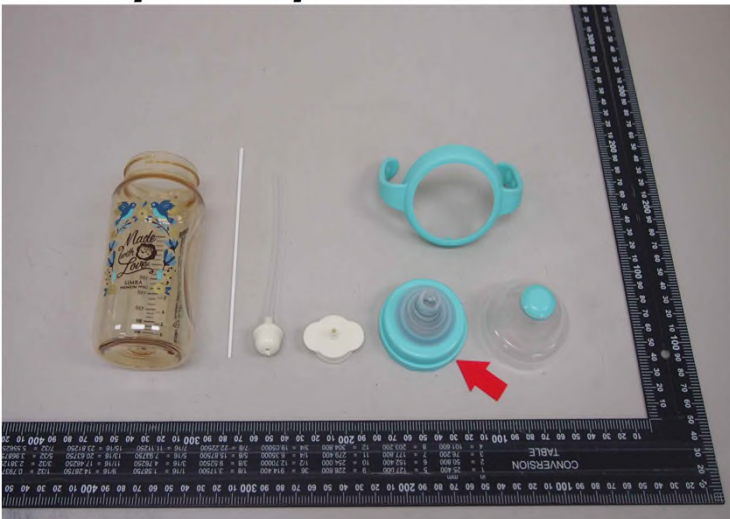
CT/2019/40465



CT/2019/40465 NO.1



CT/2019/40465 NO.2



CT/2019/40465 NO.3



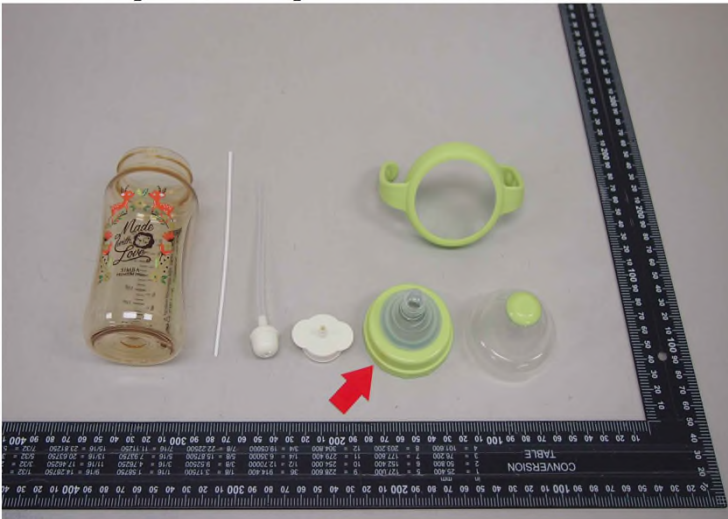
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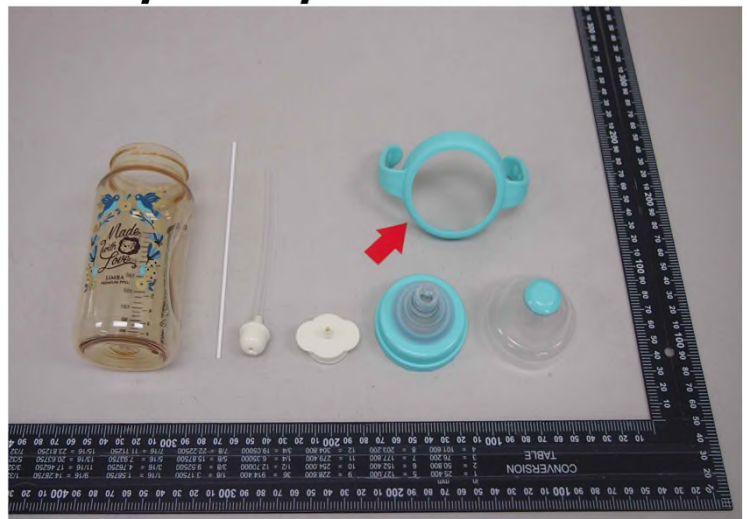
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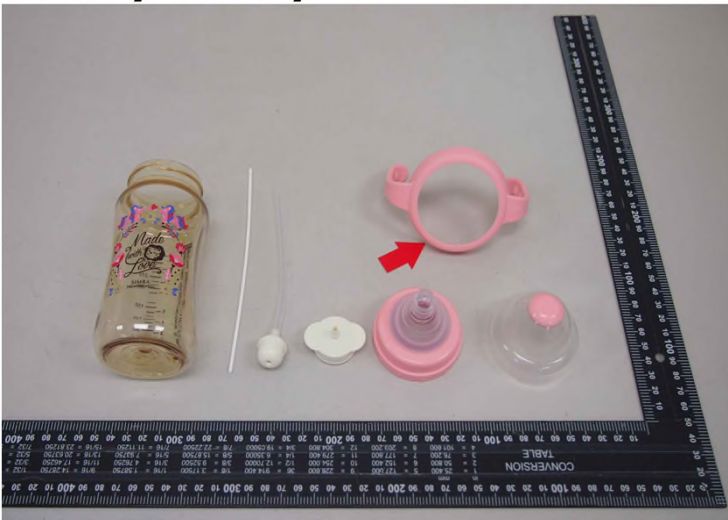
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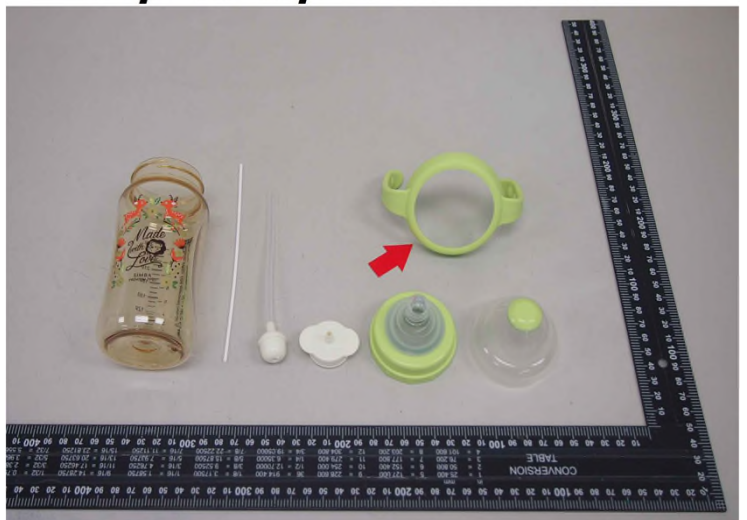
CT/2019/40465 NO.5



CT/2019/40465 NO.6



CT/2019/40465 NO.7



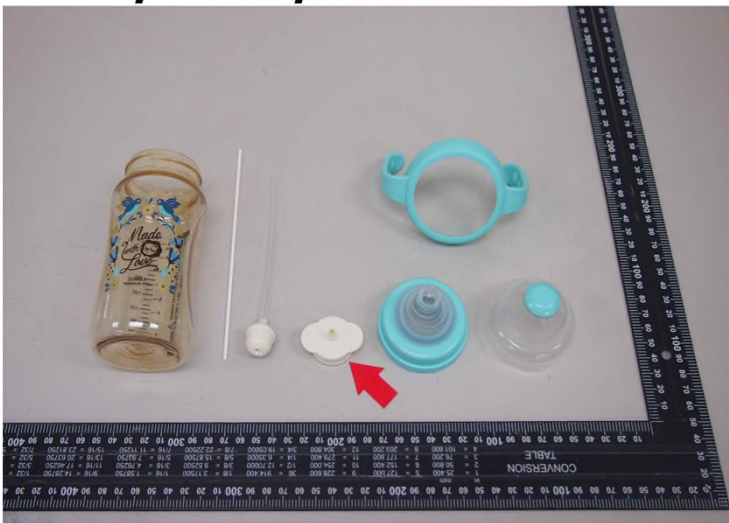
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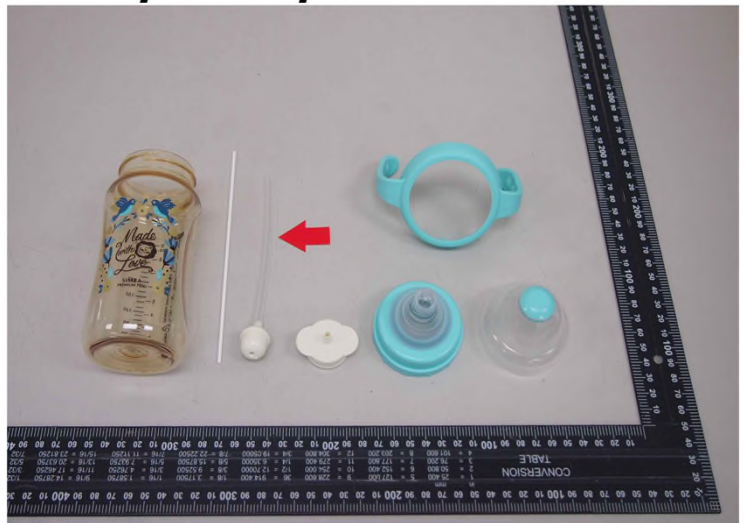
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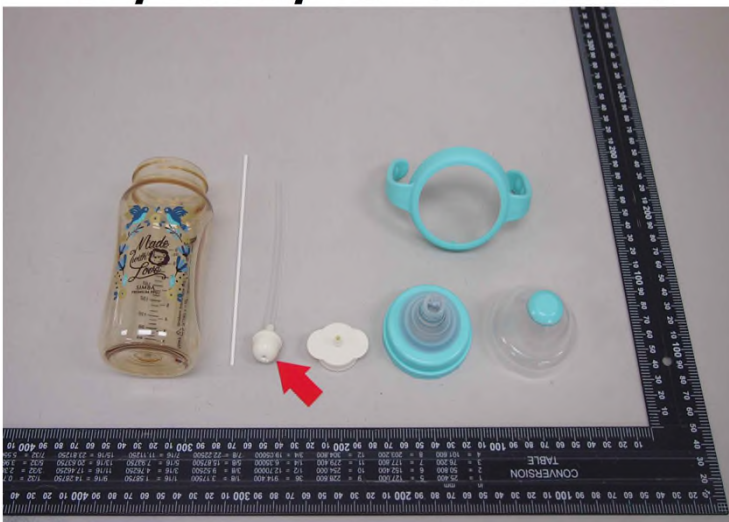
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