

TEST REPORT

Report No.: **RSZ190510B0848E**

Date: May 17, 2019

Page 1 of 11

Cambridge Environmental Solutions Ltd

Unit 22, Middle Court, Copley Hill Business Park, Barham, Cambridge, CB22 3AF

Report on the submitted samples said to be:

Sample Description: Cambridge Mask PRO & BASIC
Style/Item No.: BASIC and PRO size XS, S, M, L & XL
Color: Black
Country of Origin: China
Supplier: Cambridge Environmental Solutions Ltd
Tested Age Grading: Over 3 years of age
Sample Receiving Date: May 10,2019
Testing Period: May 10,2019 - May 17,2019
Result: **Pass**

Signed for and on behalf of

BACL



Checked by: _____

May Chen
Engineer



Approved by: _____

Gary Guo
Technical Supervisor



Lance Lee
Lab vice-Manager

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TEST REPORT

Report No.: RSZ190510B0848E

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Page 2 of 11

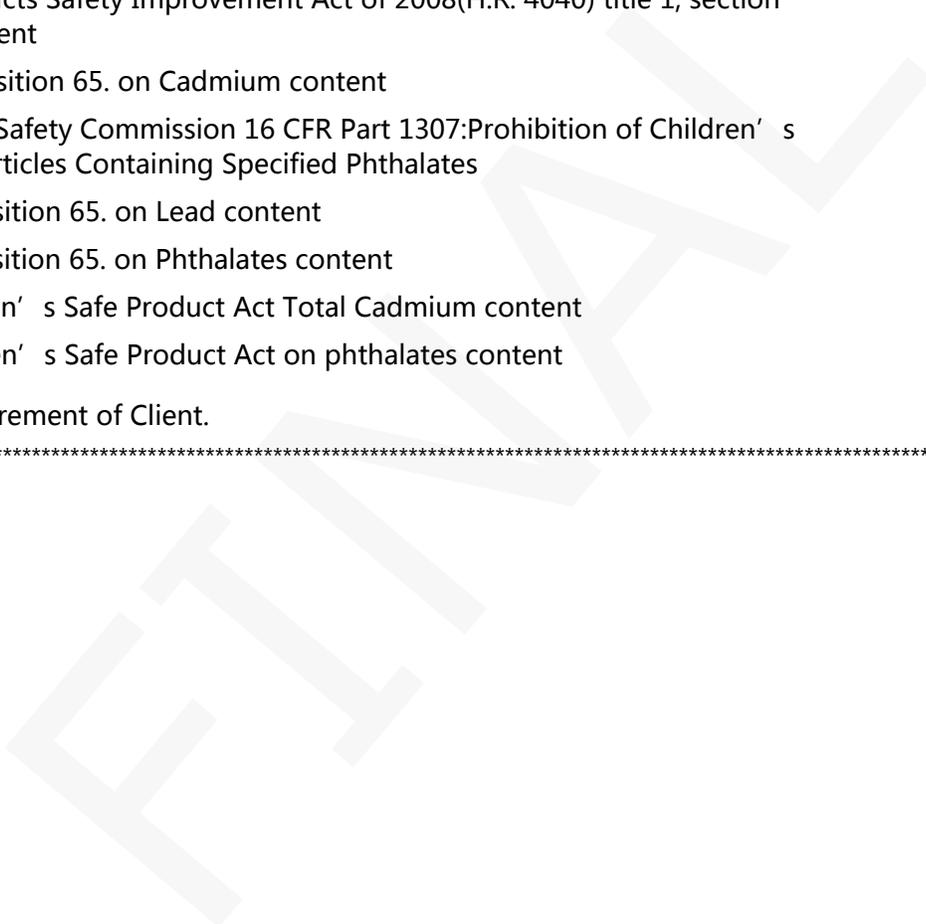
Summary of Test Result:

TEST REQUEST

CONCLUSION

A CPSC Regulation	
1.Mechanical and Physical Tests	Pass
2.Flammability Tests	Pass
B US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content	Pass
C US California Proposition 65. on Cadmium content	Pass*1
D Consumer Product Safety Commission 16 CFR Part 1307:Prohibition of Children’ s Toys and Child Care Articles Containing Specified Phthalates	Pass
E US California Proposition 65. on Lead content	Pass*1
F US California Proposition 65. on Phthalates content	Pass*1
G Washington Children’ s Safe Product Act Total Cadmium content	Pass
H Washington Children’ s Safe Product Act on phthalates content	Pass

Pass*1=Meet the requirement of Client.



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TEST REPORT

Report No.: RSZ190510B0848E

Date: May 17, 2019

Page 3 of 11

Result:

Tested part(s):

- (1) Blue/white coating(box)
- (2) Blue/pale blue coating(user manual)
- (3) Bright black plastic(filter element)
- (4) Black plastic(stopper)
- (5) White soft plastic/black fabric(elastic band)
- (6) Blue printed white EVA(pad inner box)
- (7) Black printed clear plastic sticker(label)
- (8) Clear laminated white paper sticker with blue/black printing(sticker)
- (9) Clear PVC(window of box)
- (10) Silvery metal(cover of box)
- (11) Silvery metal(body of box)
- (12) Silvery metal(staple of user manual)
- (13) Clear lacquer(inner box)

Note:

[1]5060437942149 [2]5060437942132 [3]5060437940459

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Page 4 of 11

A CPSC Regulation

1.Mechanical and Physical Tests

<u>Section</u>	<u>Description</u>	<u>Result</u>
16 CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age	Pass
16 CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age	Pass
16 CFR 1501	Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts	NA

NA = Not Applicable.

Use and abuse testing:

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
16 CFR 1500.50	Normal use testing	
16 CFR 1500.53	Drop test	4 drops at 3.0 ft.
16 CFR 1500.53	Torque test	4 in-lbs or 180°
16 CFR 1500.53	Tension test	15 lbs
16 CFR 1500.53	Compression test	NA

2.Flammability Tests

Flammability Tests of material

Test method: FHS 16 CFR 1500.44: Method for determining extremely flammable and flammable solids.

<u>Sample</u>	<u>Burn rate (in/sec.)</u>	<u>Conclusion</u>
Box	DNI	Pass

Note:

In accordance with the FHS 16 CFR 1500.3 (c) (6) (vi), the burning rate should not be greater than 0.1 inch per second.

All styles of submitted samples were tested, the above result only showed the most severe burn rate of submitted samples.

DNI = Did Not Ignite IBE = Ignited But Extinguished

Flammability Tests of textiles fabrics

Test method: 16 CFR 1610 Flammability test of textiles fabrics

Remark: This item is not applicable.

All fabrics were not tested since each fabric as it appears on the toy cannot constitute a test sample of 2×6 inch.

B US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content

Total Lead content(in paint and similar surface-coating materials)

Test method: CPSC-CH-E1003-09.1-2011

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Page 5 of 11

Item	Unit	MDL	Result			Limit
			(1)	(2)	(13)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	90
Conclusion	/	/	Pass	Pass	Pass	/

Total Lead content(in substrates)

Test method: CPSC-CH-E1001-08.3-2012;CPSC-CH-E1002-08.3-2012

Item	Unit	MDL	Result					Limit
			(3)	(4)	(5)	(6)	(7)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(8)	(9)	(10)	(11)	(12)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	27	45	33	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

C US California Proposition 65. on Cadmium content

Test method: EN 1122:2001(E);IEC 62321-5:2013

Item	Unit	MDL	Result						Client's Limit
			(1)	(2)	(3)	(4)	(5)	(6)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	300
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Client's Limit
			(7)	(8)	(9)	(10)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	300
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result			Client's Limit
			(11)	(12)	(13)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	300
Conclusion	/	/	Pass	Pass	Pass	/

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Page 6 of 11

D Consumer Product Safety Commission 16 CFR Part 1307:Prohibition of Children' s Toys and Child Care Articles Containing Specified Phthalates

Test method: CPSC-CH-C1001-09.4-2018

Item	Unit	MDL	Result					Limit
			(1)	(2)	(3)	(4)	(5)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-pentyl Phthalate(DPENP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dicyclohexyl Phthalate(DCHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(6)	(7)	(8)	(9)	(13)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-pentyl Phthalate(DPENP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dicyclohexyl Phthalate(DCHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

E US California Proposition 65. on Lead content

Total Lead content(in paint and similar surface-coating materials)

Test method: CPSC-CH-E1003-09.1-2011

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Page 7 of 11

Item	Unit	MDL	Result			Client's Limit
			(1)	(2)	(13)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	90
Conclusion	/	/	Pass	Pass	Pass	/

Total Lead content(in substrates)

Test method: CPSC-CH-E1001-08.3-2012;CPSC-CH-E1002-08.3-2012

Item	Unit	MDL	Result					Client's Limit
			(3)	(4)	(5)	(6)	(7)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Client's Limit
			(8)	(9)	(10)	(11)	(12)	
Lead(Pb)	mg/Kg	10	N.D.	N.D.	27	45	33	100
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

F US California Proposition 65. on Phthalates content

Test method: CPSC-CH-C1001-09.4-2018

Item	Unit	MDL	Result					Client's Limit
			(1)	(2)	(3)	(4)	(5)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Client's Limit
			(6)	(7)	(8)	(9)	(13)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000

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Page 8 of 11

Item	Unit	MDL	Result					Client's Limit
			(6)	(7)	(8)	(9)	(13)	
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-hexyl Phthalate (DHEXP/DnHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

G Washington Children' s Safe Product Act Total Cadmium content

Test method: EN 1122:2001(E);IEC 62321-5:2013

Item	Unit	MDL	Result						Limit
			(1)	(2)	(3)	(4)	(5)	(6)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	40
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Limit
			(7)	(8)	(9)	(10)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	N.D.	40
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result			Limit
			(11)	(12)	(13)	
Cadmium(Cd)	mg/Kg	10	N.D.	N.D.	N.D.	40
Conclusion	/	/	Pass	Pass	Pass	/

H Washington Children' s Safe Product Act on phthalates content

Test method: CPSC-CH-C1001-09.4-2018

Item	Unit	MDL	Result					Limit
			(1)	(2)	(3)	(4)	(5)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000

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Page 9 of 11

Item	Unit	MDL	Result					Limit
			(1)	(2)	(3)	(4)	(5)	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-Octyl Phthalate(DNOP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
sum of DBP,BBP,DEHP,DNOP,DINP,DI DP	mg/Kg	-	/	/	/	/	/	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(6)	(7)	(8)	(9)	(13)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-n-Octyl Phthalate(DNOP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate(DINP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate(DIDP)	mg/Kg	60	N.D.	N.D.	N.D.	N.D.	N.D.	1000
sum of DBP,BBP,DEHP,DNOP,DINP,DI DP	mg/Kg	-	/	/	/	/	/	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit

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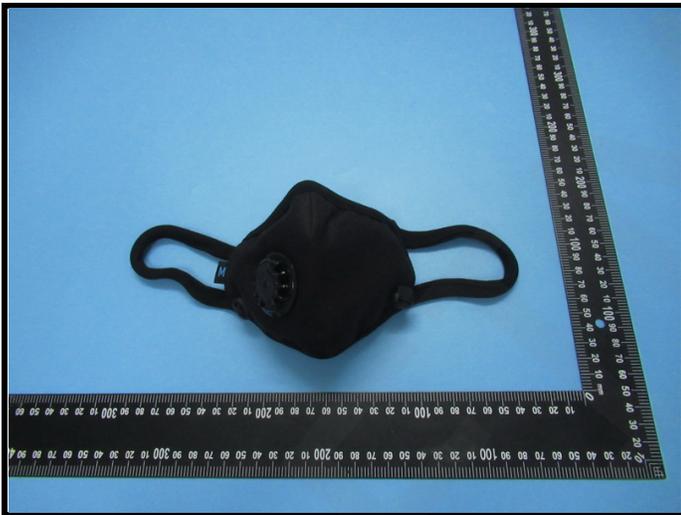
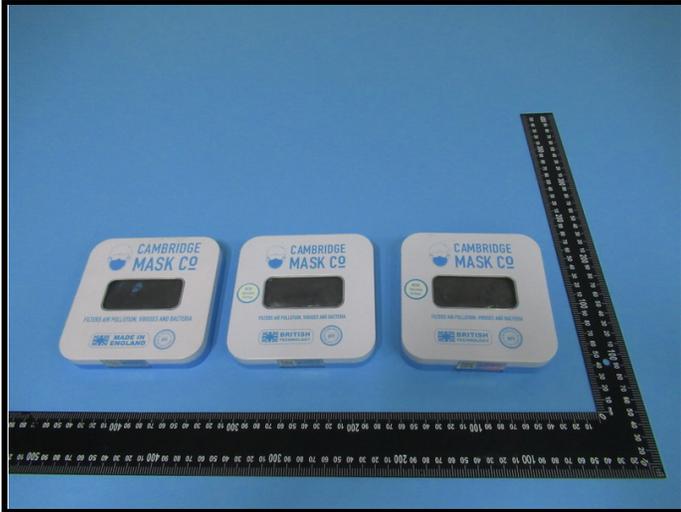
TEST REPORT

Report No.: RSZ190510B0848E

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Page 10 of 11

Photograph of Sample



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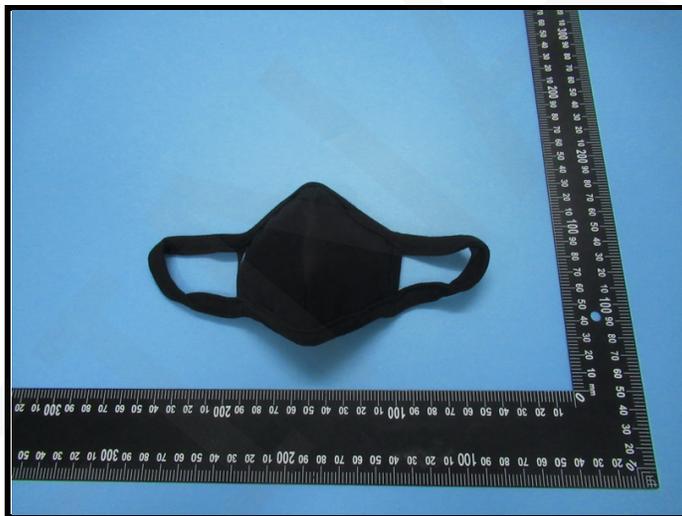
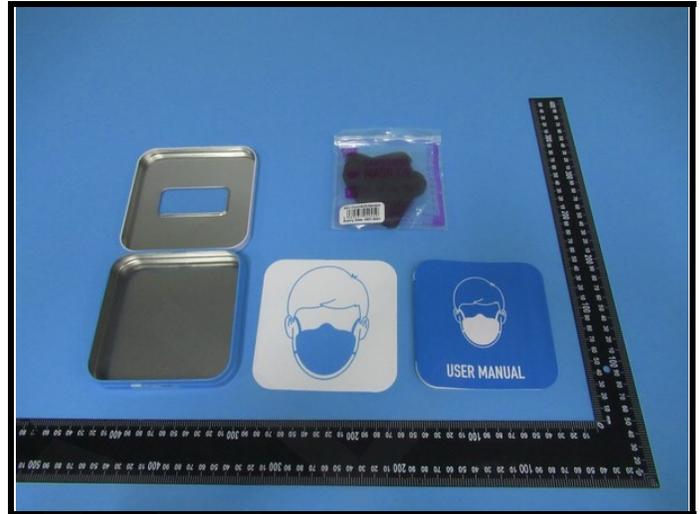
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Page 11 of 11



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