

Report No.: GNB19050505EN Date: May. 14, 2019

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The following information was/were submitted and identified by/on behalf of the client:

Applicant : TIROFLX (NINGBO) TRADE CO., LTD.

Address : ROOM 801, NO. 10, NORTH BANK FORTUNE CENTER NINGBO

Sample Name : SAFETY TOOL WITH EMMERGENCY HAMMER LED

Sample Model : T25779

Country of Origin : China

Exported to : Europe

Sample Receive Date : May. 06, 2019

Sample Testing Period : May. 06, 2019 - May. 14, 2019

Test Result Summary

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

TEST ITEM(S)	TEST REQUESTED	CONCLUSION(S)
	Annex XVII items 23 of REACH Regulation (EC) No. 1907/2006 &	
Cadmium(Cd) content	amended (EU)No. 835/2012, (EU)No. 494/2011 and (EU)No.	PASS
	217/2016	
Dolyayalia Aramatia	Product Safety Commission (AfPS) Examination and Assessment	
Polycyclic Aromatic	of Polycyclic Aromatic Hydrocarbons (PAHs) in the Recognition of	PASS
Hydrocarbons (PAHs)	the GS mark 4 August 2014	
Phthalates(DBP, BBP,	Annex XVII items 51 & 52 of REACH Regulation (EC) No.	
DEHP, DIBP, DNOP, DINP	1907/2006 & its amendment (EC) No. 552/2009 and (EU)	PASS
and DIDP) content	2018/2005	
Alkanes, C10-13, chloro	EQUAL 9/419 151 4 9 4 99 999 4 F	LESS THAN
(Short Chain Chlorinated	ECHA's SVHC candidate on Oct. 28, 2008 of European	
Paraffins)(SCCP) Content	Commission Regulation 1907/2006/EC concerning the REACH	0.1% (w/w)

Authorized signature:

Lab Manager: Gavin Zhou

GIG TESTING CO.

May. 14, 2019



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Test Result(s):

#### **Test Sample Description:**

Material No.	Material Description
<u>01</u>	Silvery gray metal body
<u>02</u>	Silvery metal drill
<u>03</u>	Transparent plastic lens
<u>04</u>	Silvery plastic with plating
<u>05</u>	White translucent plastic pressed sheet
<u>06</u>	Black silicone switch cover
<u>07</u>	White plastic switch
<u>08</u>	White translucent plastic switch holder
<u>09</u>	White plastic battery holder
<u>10</u>	Coppery metal spring
<u>11</u>	Silvery white plastic with plating
<u>12</u>	White translucent silicone ring
<u>13</u>	Coppery metal spring

#### 1. Cadmium(Cd) content

Test Method: For Metal: US EPA 3050B: 1996 & US EPA 6010C: 2007

For Non-Metal: EN 1122:2001 Method B

Material No.	<u>Unit</u>	MDL	<u>Limit</u>	Result(s)	Conclusion(s)
<u>01</u>	mg/kg	2	100	N.D.	PASS
<u>02</u>	mg/kg	2	100	N.D.	PASS
<u>03</u>	mg/kg	2	100	N.D.	PASS
<u>04</u>	mg/kg	2	100	N.D.	PASS
<u>05</u>	mg/kg	2	100	N.D.	PASS
<u>06</u>	mg/kg	2	100	N.D.	PASS
<u>07</u>	mg/kg	2	100	N.D.	PASS
<u>08</u>	mg/kg	2	100	N.D.	PASS
<u>09</u>	mg/kg	2	100	N.D.	PASS
<u>10</u>	mg/kg	2	100	N.D.	PASS
<u>11</u>	mg/kg	2	100	N.D.	PASS
<u>12</u>	mg/kg	2	100	N.D.	PASS
<u>13</u>	mg/kg	2	100	N.D.	PASS



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**Note:** 1. 1000 mg/kg = 0.1%;

2. MDL = Method Detection Limit;3. N.D. = Not Detected (<MDL).</li>

#### 2. Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: AfPS GS 2014: 01 PAK

Item	T4 M	040 N =	11!1	MDI	1 1	Resi	ult(s)
No.	Test Item	CAS No.	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>03</u>	<u>04</u>
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.	N.D.
11	Acenaphthylene	208-96-8	mg/kg	0.2		N.D.	N.D.
12	Acenaphthene	83-32-9	mg/kg	0.2		N.D.	N.D.
13	Anthracene	120-12-7	mg/kg	0.2	\	N.D.	N.D.
14	Fluorene	86-73-7	mg/kg	0.2	\	N.D.	N.D.
15	Fluoranthene	206-44-0	mg/kg	0.2		N.D.	N.D.
16	Phenanthrene	85-01-8	mg/kg	0.2		N.D.	N.D.
17	Pyrene	129-00-0	mg/kg	0.2		N.D.	N.D.
18	Naphthalene	91-20-3	mg/kg	0.2	< 2	N.D.	1.0
Sum of	Acenaphthylene,						
Acenap	hthene, Anthracene,		mg/kg		< 10	N.D.	N.D.
Fluoren	e, Fluoranthene,		ilig/kg		< 10	IN.D.	IN.D.
Phenan	threne, Pyrene						
Sum of	18 PAHs		mg/kg		< 10	N.D.	1.0
		Conclusion				PASS	PASS



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Item	T	040 N-	1124	MDI	1.5	Resi	ult(s)
No.	<u>Test Item</u>	CAS No.	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>05</u>	<u>06</u>
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.	N.D.
11	Acenaphthylene	208-96-8	mg/kg	0.2		N.D.	N.D.
12	Acenaphthene	83-32-9	mg/kg	0.2		N.D.	N.D.
13	Anthracene	120-12-7	mg/kg	0.2	<b>:</b>	N.D.	N.D.
14	Fluorene	86-73-7	mg/kg	0.2	-	N.D.	N.D.
15	Fluoranthene	206-44-0	mg/kg	0.2	-	N.D.	N.D.
16	Phenanthrene	85-01-8	mg/kg	0.2		N.D.	N.D.
17	Pyrene	129-00-0	mg/kg	0.2	•	N.D.	N.D.
18	Naphthalene	91-20-3	mg/kg	0.2	< 2	N.D.	N.D.
Sum of	Acenaphthylene,						
Acenap	hthene, Anthracene,		mg/kg		< 10	N.D.	N.D.
Fluoren	e, Fluoranthene,		ilig/kg		< 10	IN.D.	IN.D.
Phenan	threne, Pyrene						
Sum of	18 PAHs	R- 1	mg/kg	<b>N-</b> /	< 10	N.D.	N.D.
		Conclusion				PASS	PASS



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<u>Item</u>	Total Mana	CACN	11:4	MDI	l imais	Resi	ult(s)
No.	<u>Test Item</u>	CAS No.	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>07</u>	<u>08</u>
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.	N.D.
11	Acenaphthylene	208-96-8	mg/kg	0.2	1	N.D.	N.D.
12	Acenaphthene	83-32-9	mg/kg	0.2		N.D.	N.D.
13	Anthracene	120-12-7	mg/kg	0.2		N.D.	N.D.
14	Fluorene	86-73-7	mg/kg	0.2	-	N.D.	N.D.
15	Fluoranthene	206-44-0	mg/kg	0.2	-	N.D.	N.D.
16	Phenanthrene	85-01-8	mg/kg	0.2	_	N.D.	N.D.
17	Pyrene	129-00-0	mg/kg	0.2	-	N.D.	N.D.
18	Naphthalene	91-20-3	mg/kg	0.2	< 2	N.D.	N.D.
Acenap Fluoren	Acenaphthylene, whithene, Anthracene, ne, Fluoranthene, nthrene, Pyrene		mg/kg		< 10	N.D.	N.D.
Sum of	18 PAHs		mg/kg	N- //	< 10	N.D.	N.D.
		Conclusion				PASS	PASS



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Item	T	040 N	11!1	MDI	1 1	Resi	ult(s)
No.	<u>Test Item</u>	CAS No.	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>09</u>	<u>11</u>
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.	N.D.
11	Acenaphthylene	208-96-8	mg/kg	0.2	-	N.D.	N.D.
12	Acenaphthene	83-32-9	mg/kg	0.2		N.D.	N.D.
13	Anthracene	120-12-7	mg/kg	0.2		N.D.	N.D.
14	Fluorene	86-73-7	mg/kg	0.2	-	N.D.	N.D.
15	Fluoranthene	206-44-0	mg/kg	0.2	<u>-</u> -	N.D.	N.D.
16	Phenanthrene	85-01-8	mg/kg	0.2	_	N.D.	N.D.
17	Pyrene	129-00-0	mg/kg	0.2	-	N.D.	N.D.
18	Naphthalene	91-20-3	mg/kg	0.2	< 2	N.D.	N.D.
Acenap Fluoren	Acenaphthylene, hthene, Anthracene, e, Fluoranthene, threne, Pyrene		mg/kg		< 10	N.D.	N.D.
	18 PAHs	D. 1	mg/kg	RI A	< 10	N.D.	N.D.
		Conclusion				PASS	PASS



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<u>Item</u>	Took Itom	CACNA	l lmit	MDI	l imais	Result(s)		
<u>No.</u>	<u>Test Item</u>	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>12</u>		
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.5	N.D.		
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.5	N.D.		
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.5	N.D.		
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.5	N.D.		
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.5	N.D.		
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.5	N.D.		
7	Chrysene	218-01-9	mg/kg	0.2	< 0.5	N.D.		
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.5	N.D.		
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.5	N.D.		
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.5	N.D.		
11	Acenaphthylene	208-96-8	mg/kg	0.2		N.D.		
12	Acenaphthene	83-32-9	mg/kg	0.2		N.D.		
13	Anthracene	120-12-7	mg/kg	0.2		N.D.		
14	Fluorene	86-73-7	mg/kg	0.2		N.D.		
15	Fluoranthene	206-44-0	mg/kg	0.2		N.D.		
16	Phenanthrene	85-01-8	mg/kg	0.2		N.D.		
17	Pyrene	129-00-0	mg/kg	0.2		N.D.		
18	Naphthalene	91-20-3	mg/kg	0.2	< 2	N.D.		
Sum of	Acenaphthylene, Acenaphthene,		_					
Anthrac	ene, Fluorene, Fluoranthene,		mg/kg		< 10	N.D.		
Phenan	threne, Pyrene							
Sum of	18 PAHs		mg/kg	Λ	< 10	N.D.		
	Conclusion							



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#### Limits for PAHs in Products

Product Safety Commission (AfPS)

Examination and Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Recognition of the GS mark 4 August 2014.

Parameter	Category 1	Cate	gory 2	Cateo	Category 3		
	Materials	Materials not	falling under	Materials not	falling under		
	intended to be	Category 1, wi	ith foreseeable	Category 1 or 2, with			
	placed in the	skin contact l	onger than 30	foreseeable skin contact less			
Polycyclic Aromatic	mouth or toys	seconds (long to	erm) or frequent	than 30 secon	ds (short-term		
Hydrocarbons	with intended	short-term s	skin contact)	skin co	ontact)		
(PAHs)	prolonged skin	Toys by	Other	Toys by	Other		
	contact (> 30	Directive	Products by	Directive	Products by		
	seconds)	2009/48/EC	ProdSG	2009/48/EC	ProdSG		
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
Benzo(a)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Benzo(e)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Benzo(a)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Benzo(b)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Benzo(j)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Benzo(k)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Dibenzo(a,h)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Benzo(g,h,i)Perylene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Indeno(1,2,3-cd)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1		
Acenaphthylene	UK		NA				
Acenaphthene							
Anthracene	<1	<5	< 10	< 20	< 50		
Fluorene	(sum)	<5 (sum)	(sum)	< 20 (sum)	< 50 (sum)		
Fluoranthene	(Gairi)	(Gaill)	(sum) (sum)		(Gairi)		
Phenanthrene							
Pyrene							
Naphthalene	<1	<	2	<	10		
Sum of 18 PAHs	<1	<5	< 10	<20	<50		

Note:

- 1. MDL = Method Detection Limit;
- 2. N.D. = Not Detected (<MDL);
- 3. The material category is 2 which was provided by the client;
- 4. The tested sample is not toy's product by directive of ProdSG for client's information.



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#### 3. Phthalates content

Test Method: With reference to EN 14372: 2004

Following four phthalates intended for all the materials of toys and childcare articles

To at Home	CACNE	l lmit	MDI	Limit	Result(s)	
<u>Test Items</u>	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>03</u>	<u>04</u>
Dibutyl phthalate (DBP)	84-74-2	%	0.005		N.D.	N.D.
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005		N.D.	N.D.
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005		N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	84-69-5	%	0.005		N.D.	N.D.
Sum of DBP, BBP, DEHP and DIBP		%		0.1	N.D.	N.D.
Conclusion(s)						PASS

Following three phthalates intended for materials of toys and childcare articles that can be placed in the mouth

To at House	CACNE	Unit	MDI	Limela	Result(s)	
<u>Test Items</u>	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>03</u>	<u>04</u>
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.010		N.D.	N.D.
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.010	-	N.D.	N.D.
Sum of DNOP, DINP and DIDP		%		0.1	N.D.	N.D.
Conclusion(s)						PASS

Following four phthalates intended for all the materials of toys and childcare articles

Total Manua	CACAL		Unit MDL	nit MDL	l imit	Resu	ult(s)
Test Items	CAS No. Unit I	MDL	<u>Limit</u>	<u>05</u>	<u>06</u>		
Dibutyl phthalate (DBP)	84-74-2	%	0.005		N.D.	N.D.	
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005		N.D.	N.D.	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005		N.D.	N.D.	
Di-iso-butyl phthalate (DIBP)	84-69-5	%	0.005		N.D.	N.D.	
Sum of DBP, BBP, DEHP and DIBP		%		0.1	N.D.	N.D.	
Conclusion(s)						PASS	

Following three phthalates intended for materials of toys and childcare articles that can be placed in the mouth

Tool House	040 N	1124	MDI	l imais	Result(s)		
<u>Test Items</u>	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>05</u>	<u>06</u>	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005		N.D.	N.D.	
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.010		N.D.	N.D.	
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.010		N.D.	N.D.	
Sum of DNOP, DINP and DIDP		%		0.1	N.D.	N.D.	
	PASS	PASS					



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Following four phthalates intended for all the materials of toys and childcare articles

Tarkkama	040 N	11!4	MDI	1	Result(s)	
<u>Test Items</u>	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>07</u>	<u>08</u>
Dibutyl phthalate (DBP)	84-74-2	%	0.005		N.D.	N.D.
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005		N.D.	N.D.
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005		N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	84-69-5	%	0.005		N.D.	N.D.
Sum of DBP, BBP, DEHP and DIBP		%		0.1	N.D.	N.D.
<u>Con</u>	PASS	PASS				

Following three phthalates intended for materials of toys and childcare articles that can be placed in the mouth

To at Itama	CACNO	l losia	MDL	Limit	Result(s)		
Test Items	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>07</u>	<u>08</u>	
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	1	N.D.	N.D.	
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.010		N.D.	N.D.	
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.010	-	N.D.	N.D.	
Sum of DNOP, DINP and DIDP		%		0.1	N.D.	N.D.	
Con	PASS	PASS					

Following four phthalates intended for all the materials of toys and childcare articles

Total Home	CACNE	l lm:t	MDI	Limit	Result(s)		
<u>Test Items</u>	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>09</u>	<u>11</u>	
Dibutyl phthalate (DBP)	84-74-2	%	0.005		N.D.	N.D.	
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005		N.D.	N.D.	
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005		N.D.	N.D.	
Di-iso-butyl phthalate (DIBP)	84-69-5	%	0.005		N.D.	N.D.	
Sum of DBP, BBP, DEHP and DIBP		%		0.1	N.D.	N.D.	
Cond	clusion(s)				PASS	PASS	

Following three phthalates intended for materials of toys and childcare articles that can be placed in the mouth

To at Home	CAS No. Unit		MDI	Limit	Result(s)	
<u>Test Items</u>	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>09</u>	<u>11</u>
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005	-	N.D.	N.D.
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.010	-	N.D.	N.D.
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.010	ŀ	N.D.	N.D.
Sum of DNOP, DINP and DIDP		%		0.1	N.D.	N.D.
Con	PASS	PASS				



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Following four phthalates intended for all the materials of toys and childcare articles

Took komo	CACNO	I I to i t	MDI	Limeia	Result(s)
Test Items	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	<u>12</u>
Dibutyl phthalate (DBP)	84-74-2	%	0.005		N.D.
Butyl benzyl phthalate (BBP)	85-68-7	%	0.005		N.D.
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.005		N.D.
Di-iso-butyl phthalate (DIBP)	84-69-5	%	0.005		N.D.
Sum of DBP, BBP, DEHP and DIBP		%		0.1	N.D.
	Conclusion(s)			•	PASS

Following three phthalates intended for materials of toys and childcare articles that can be placed in the mouth

Test Items	CAS No.	<u>Unit</u>	MDL	<u>Limit</u>	Result(s)			
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.005		N.D.			
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.010		N.D.			
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.010		N.D.			
Sum of DNOP, DINP and DIDP		%		0.1	N.D.			
Conclusion(s)								

**Note:** 1. % = Percentage by weight;

2. 0.1% = 1000 mg/kg;

3. MDL = Method Detection Limit;

4. N.D. = Not Detected (<MDL).

#### 4. Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)(SCCP) content

Test Method: US EPA 3550C: 2007 & US EPA 8270D: 2007

Substance Name	CASNo	EC No.	l lmit	DI	SVHC	Resu	ult(s)
Substance Name CAS No. EC No. Unit RL	Recommended <u>Limit</u>	<u>03</u>	<u>04</u>				
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	% (w/w)	0.020	0.1	N.D.	N.D.



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Substance Name CAS No. EC No. Unit RL		SVHC Recommended	Result(s)				
Substance Name C	OAO IIO.	<u> </u>	<u> </u>	<u> </u>	Limit	<u>05</u>	<u>06</u>
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	% (w/w)	0.020	0.1	N.D.	N.D.

Cultura Nama	CACAL	EC No. Unit		DI.	SVHC	Result(s)	
Substance Name CAS No. EC No. Unit RL	Recommended <u>Limit</u>	<u>07</u>	<u>08</u>				
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	% (w/w)	0.020	0.1	N.D.	N.D.

Cub stores Nome	CACAL	EC No	11::4	DI	SVHC	Resu	ılt(s)
Substance Name	Substance Name CAS No. EC No. Unit RL	Recommended <u>Limit</u>	<u>09</u>	<u>11</u>			
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	% (w/w)	0.020	0.1	N.D.	N.D.

Substance Name	CAS No.	EC No.	<u>Unit</u>	RL	SVHC Recommended Limit	Result(s)
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	% (w/w)	0.020	0.1	N.D.

**Note:** 1. 0.1%(w/w) = 1000mg/kg;

2. RL = Reporting Limit;

3. N.D. = Not Detected (<RL).

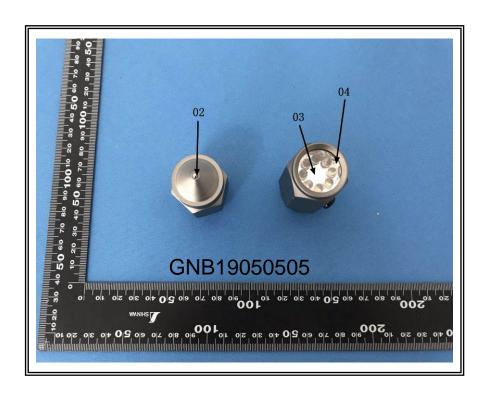


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#### Sample Photo(s):

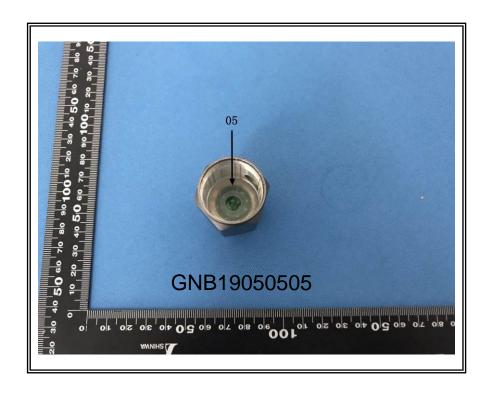


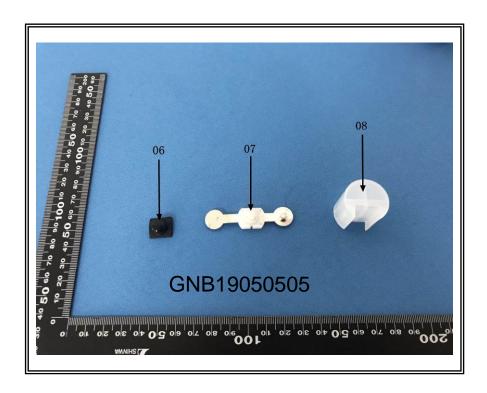




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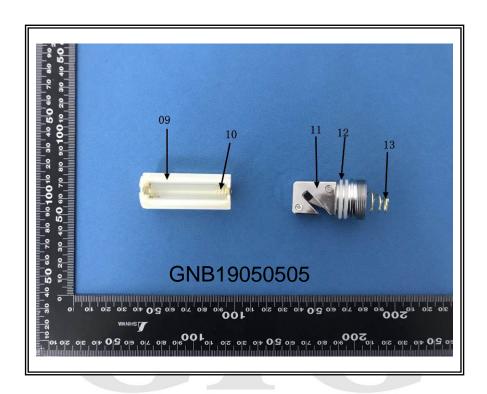




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GIG authenticate the photo(s) on original report only

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