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Company Name H GROSSMAN LIMITED

shown on Report

Address 3-5 CAMBUSLANG WAY, GATEWAY OFFICE PARK, CAMBUSLANG,

GLASGOW, G32 8ND

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name WOODEN UNICORN AND DRAGON CUP AND BALL

Item No. 38189, 38189FSC

Supplier 601697
Country of Origin China
Exported to Europe
Client Specified Age Grading 3+

Labeled Age Grading

Age Group Applied in Testing

Sample Received Date

Not stated

Over 3 years

Jul. 19, 2021

Testing Period Jul. 19, 2021 to Aug. 16, 2021

#### **Test Conducted:**

As requested by the applicant. For details refer to next page(s)

pproved by

Victor Wang

Lab Manager

Jan. 19, 2023

Hill Zheng

Technical Manager

No. T490151235

Centre Testing International Group Co.,Ltd.

ing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



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#### **Executive Summary:**

<b>TES</b>	T REQUEST	<u>CONCLUSION</u>
1)	EN 71-1:2014+A1:2018 European Standard on Safety of Toys	
-	Mechanical and Physical Properties(ex labeling)	PASS
2)	EN 71-2:2020 European Standard on Safety of Toys	
-	Flammability	PASS
3)	EN 71-3:2019+A1:2021 European Standard on Safety of Toys	
-	Migration of certain elements	PASS
4)	Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with	
	Amendment(s)	
-	Cadmium and its compounds	PASS
-	Azo colourants	PASS
-	Phthalates in plasticized materials	PASS

\*\*\*\*\*\* For further details, please refer to the following page(s) \*\*\*\*\*\*\*\*\*



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#### 1) EN 71-1:2014+A1:2018 European Standard on Safety of Toys

#### **▼** Mechanical and Physical Properties

As specified in European Standard on Safety of Toys EN 71 part 1:2014+A1:2018.

<b>Clause</b>	<u>Description</u>	Assessment
4	General requirements	
4.1	Material cleanliness.	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
6	Packaging	N/A
7	Warnings, markings and instructions for use	N/C

N/A = Not Applicable; N/C=Not conducted

#### Note:

Only applicable clause(s) was/ were shown.

#### 2) EN 71-2:2020 European Standard on Safety of Toys

#### **▼** Flammability ※

As specified in European Standard on Safety of Toys EN 71-2:2020.

<u>Clause</u>	<u>Description</u>	Assessment
4	Requirements	
4.1	General requirements	Pass
	(The following materials shall not be used in the manufacture of toys except as	
	provided in EN 71-2:2020:	
	Celluloid, highly flammable solids, materials with a piled surface which produce	
	surface flash, flammable gases, extremely flammable liquids, highly flammable	
	liquids, flammable liquids and flammable gels.)	

#### Note:

- Only applicable clause(s) was/ were shown.
- "X" indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.



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#### 3) EN 71-3:2019+A1:2021 European Standard on Safety of Toys

#### **▼** Migration of certain elements **※**

Method(s) EN 71-3:2019+A1:2021 was/were used, and the item(s) was/were analyzed by ICP-OES, ICP-MS, IC-UV and/or GC-MS.

#### Category Ⅲ: scraped-off toy material

Tested Item(s)		Re	sult (mg/	kg)		MDL	<u>Limit</u>
rested fterif(s)	001	002	003	004	005	(mg/kg)	(mg/kg)
Aluminium (Al)	150	N.D.	N.D.	128	81	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	N.D.	0.6	0.3	0.6	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	2	N.D.	3	N.D.	2	1	23
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	3	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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T . 11. ()		Re	sult (mg/	kg)		MDL	<u>Limit</u>
Tested Item(s)	006	007	008	009	010	(mg/kg)	(mg/kg)
Aluminium (Al)	187	N.D.	N/A	N/A	N/A	50	28130
Antimony (Sb)	N.D.	N.D.	N/A	N/A	N/A	5	560
Arsenic (As)	N.D.	N.D.	N/A	N/A	N/A	5	47
Barium (Ba)	N.D.	N.D.	N/A	N/A	N/A	50	18750
Boron (B)	N.D.	N.D.	N/A	N/A	N/A	50	15000
Cadmium (Cd)	N.D.	N.D.	N/A	N/A	N/A	1	17
Chromium (III) #1	N.D.	0.4	N/A	N/A	N/A	0.2	460
Chromium (VI)	N.D.	N.D.	N/A	N/A	N/A	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N/A	N/A	N/A	5	130
Copper (Cu)	N.D.	N.D.	N/A	N/A	N/A	50	7700
Lead (Pb)	N.D.	N.D.	N/A	N/A	N/A	1	23
Manganese (Mn)	N.D.	N.D.	N/A	N/A	N/A	50	15000
Mercury (Hg)	N.D.	N.D.	N/A	N/A	N/A	5	94
Nickel (Ni)	N.D.	N.D.	N/A	N/A	N/A	5	930
Selenium (Se)	N.D.	N.D.	N/A	N/A	N/A	5	460
Strontium (Sr)	N.D.	N.D.	N/A	N/A	N/A	50	56000
Tin (Sn) #2	N.D.	2	N/A	N/A	N/A	2	180000
Organic tin (TBT) #3	N.D.	N.D.	N/A	N/A	N/A	0.05	12
Zinc (Zn)	N.D.	N.D.	N/A	N/A	N/A	50	46000



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Tastad Itama(a)		Re	sult (mg/	kg)		MDL	<u>Limit</u>
Tested Item(s)	011	013	014	015	016	(mg/kg)	(mg/kg)
Aluminium (Al)	N/A	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N/A	N.D.	N.D.	7	8	5	560
Arsenic (As)	N/A	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N/A	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N/A	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N/A	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) #1	N/A	N.D.	N.D.	N.D.	0.4	0.2	460
Chromium (VI)	N/A	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N/A	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N/A	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N/A	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N/A	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N/A	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N/A	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N/A	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N/A	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #2	N/A	N.D.	3	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N/A	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N/A	N.D.	N.D.	N.D.	N.D.	50	46000



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Tastad Itam(s)	Resul	t (mg/kg)	MDL	<u>Limit</u>
Tested Item(s)	017	018	(mg/kg)	(mg/kg)
Aluminium (Al)	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	1	17
Chromium (III) #1	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	92	50	15000
Mercury (Hg)	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	50	56000
Tin (Sn) #2	N.D.	N.D.	2	180000
Organic tin (TBT) #3	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	50	46000



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#### Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used. (tested sample: 002 sample weight: 20.4mg, 003 sample weight: 20.8mg, 007 sample weight: 49.5mg, 014 sample weight: 21.9mg)
- #1 Trivalent chromium (Cr (III)) = Chromium (Cr) Hexavalent chromium (Cr (VI)).
- <sup>#2</sup> Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2019+A1:2021.
- #3 The migration of organic tin is expressed as tributyltin (TBT). Where the tin content exceeded the limit of organic tin, eleven organic tins listed in the table were determined by GC-MS and the client should note there are other organic tins that may be present in toy materials.

Organic tins tested under EN 71-3:2019+A1:2021
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)
Dimethyl tin (DMT)

- "X" indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.

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#### 4) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)

#### **▼** Cadmium and its compounds

As specified in entry 23, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No.552/2009 & No.494/2011 & No.835/2012 & No. 2016/217, method(s) EN 1122:2001(E) Method B was/were used, and the item(s) was/were analyzed by ICP-OES.

Tastad Itam(s)		Result (mg/kg)		MDL	<u>Limit</u>
Tested Item(s)	001+002+003	004+005+006	007+008+011	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	N.D.	2	1000

Tostad Itam(s)	Result (mg/kg)	MDL	<u>Limit</u>
Tested Item(s)	010	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	2	1000

Tostad Itam(s)	Result (	(mg/kg)	MDL	<u>Limit</u>
Tested Item(s)	013	014	(mg/kg)	(mg/kg)
Cadmium (Cd)	N.D.	N.D.	2	100

#### Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The limit for composite test should be divided by the mixed number.



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#### **▼** Azo colourants ※

As specified in entry 43, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009, method(s) ISO 14362-1:2017 was/were used, and the item(s) was/were analyzed by GC-MS and/or HPLC.

m - 11 - ()	GAGN	Result (mg/kg)	MDL	<u>Limit</u>
Tested Item(s)	CAS No.	015+016	(mg/kg)	(mg/kg)
4-Aminodiphenyl	92-67-1	N.D.	5	30
Benzidine	92-87-5	N.D.	5	30
4-Chloro-O-Toluidine	95-69-2	N.D.	5	30
2-Naphthylamine	91-59-8	N.D.	5	30
O-Aminoazotoluene	97-56-3	N.D.	5	30
2-Amino-4-Nitrotoluene	99-55-8	N.D.	5	30
P-Chloroaniline	106-47-8	N.D.	5	30
2,4-Diaminoanisole	615-05-4	N.D.	5	30
4,4'-Diaminodiphenylmethane	101-77-9	N.D.	5	30
3,3'-Dichlorobenzidine	91-94-1	N.D.	5	30
3,3'-Dimethoxybenzidine	119-90-4	N.D.	5	30
3,3'-Dimethylbenzidine	119-93-7	N.D.	5	30
3,3'-Dimethyl-	838-88-0	N.D.	5	30
4,4'Diaminodiphenylmethane		11.2.	3	
P-Cresidine	120-71-8	N.D.	5	30
4,4'-Methylene- Bis(2-Chloroaniline)	101-14-4	N.D.	5	30
4,4'-Oxydianiline	101-80-4	N.D.	5	30
4,4'-Thiodianiline	139-65-1	N.D.	5	30
O-Toluidine	95-53-4	N.D.	5	30
2,4-Toluylenediamine	95-80-7	N.D.	5	30
2,4,5-Trimethylaniline	137-17-7	N.D.	5	30
O-Anisidine	90-04-0	N.D.	5	30
P-Aminoazobenzene	60-09-3	N.D.	5	30
2,4-Xylidine ※	95-68-1	N.D.	5	30
2,6-Xylidine **	87-62-7	N.D.	5	30



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#### Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Results shown of additional Amines 2,4-Xylidine and 2,6-Xylidine are reported for reference only.
- The limit for composite test should be divided by the mixed number.
- "X" indicates the item(s)/method(s) is (are) not in UKAS accreditation scope.

#### **▼** Phthalates in plasticized materials

As specified in entry 51 & entry 52, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009 & No. 2015/326 & (EU) 2018/2005, method(s) EN 14372:2004 was/were used, and the item(s) was/were analyzed by GC-MS.

	Result (mg/kg)			MDI	T ::4
Tested Item(s)	001+002+	004+005+	007+008+	MDL (ma/lva)	<u>Limit</u>
	003	006	011	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.	N.D.	N.D.		1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	50	
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	N.D.	30	
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	50	
SUM(DINP+DNOP+DIDP)	N.D.	N.D.	N.D.		1000

Tested Item(s)	Result (mg/kg)			MDL	<u>Limit</u>
	010	013	014	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	N.D.	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	N.D.	99	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	N.D.	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	N.D.	N.D.	30	1000
SUM(DEHP+DBP+BBP+ DIBP)	N.D.	N.D.	99		1000
Diisononyl Phthalate (DINP)	N.D.	N.D.	N.D.	50	
Di-n-octyl Phthalate (DNOP)	N.D.	N.D.	N.D.	30	
Diisodecyl Phthalate (DIDP)	N.D.	N.D.	N.D.	50	
SUM(DINP+DNOP+DIDP)	N.D.	N.D.	N.D.		1000



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#### Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%
- The limit for composite test should be divided by the mixed number.
- Method EN 14372:2004 was accredited by UKAS on six phthalates (DEHP, DBP, BBP, DINP, DIDP, DNOP) test in this report.

#### **Tested Sample/Part Description**

- 001 White coating(cup,pink handle type)
- 002 Yellow coating(angle)
- 003 Cyan coating(angle,pink handle type)
- O04 Pink coating(handle/ball,pink handle type&blusher,pink handle type)
- 005 Light green coating(handle/ball,light green handle type)
- 006 Light blue coating(cup,light green handle type)
- 007 Transparent lacquer(on wood)
- O08 Purple coating(ball,pink handle type&blusher,pink handle type)
- 009 Dark pink coating(blusher,pink handle type)
- Orange coating(angle,light green handle type)
- 011 Dull blue coating(eyes/mouth,light green handle type)
- 013 White plastic(ball)
- 014 Transparent dry glue(joint)
- 015 Dark pink felt
- 016 Orange felt
- 017 Red cord
- 018 Natural wood

#### Note:

- This testing report revised "Item No." based on the original report of No. A2210263538106R1. This testing report displaces the original one which was invalid since the date of this testing report released.





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### Photo(s) of the sample(s)



#### Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. Company Name and Address shown on Report, the sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full.

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