



STC Test Report



TESTING
CNAS L3428

Date :2008-12-31
No. :DP215716

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- Applicant (DAG001)** : DAN GOODS INT' S
东莞市凤岗镇雁田村南山第二工业区 E 2
ATTN:EVA XIAO
- Description of Samples** : Two kinds of Racer duck submitted sample(s) said to be :
ITEM NAME: RACER DUCK(see attached photo)
ITEM NO: Z00055/Z10006
SUPPLIER: DAN GOODS INTERNATIONAL(HK),LTD
COUNTRY OF ORIGIN:CHINA
- Date Samples Received** : 2008-12-24
- Date Tested** : 2008-12-24 to 2008-12-29
- Investigation Requested** :
- 1.European Standard for Safety of Toys
 - EN71-1:2005 +A4:2007
 - EN71-2:2006 +A1:2007
 - EN71-3:1994 +A1:2000+AC:2002
 - 2.ASTM Standard Consumer Safety Specification on Toy Safety, F963-07^{E1}:
 - physical and mechanical tests
 - flammability test
 - heavy metals content
 3. USA Consumer Product Safety Improvement Act (HR4040)
 - Children's products containing lead - Total Lead content in paint and surface coating in accordance with Sec. 101 (f) and 16 CFR 1303.
 - Children's products containing lead - Total Lead content in accordance with Sec. 101(a).
 - Phthalates content in accordance with Sec 108
 4. Phthalates content in accordance with EU Decision 2005/84/EC

HUANG Gui-you, Eugene
Toys and Children's Products Departm
For and on behalf of
STC(DongGuan) Company Ltd



STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code: 523770)

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Conclusions

- : EN71-1:2005+A4:2007
Apart from clause 7.1, the submitted sample(s) **complied** with the test requirement.
- EN71-2:2006+A1:2007
The submitted sample(s) **complied** with the test requirement.
- EN71-3:1994+A1:2000+AC:2002
The submitted sample(s) **complied** with the test requirement.
- ASTM F963-07^{E1}: physical and mechanical tests
Apart from clause 5.2 and 7.1, the submitted sample(s) **complied** with the test requirement
- ASTM F963-07^{E1}: flammability test
The submitted sample(s) **complied** with the test requirement.
- ASTM F963-07^{E1}: heavy metals content
The submitted sample(s) **complied** with the test requirement.
- USA Consumer Product Safety Improvement Act (HR4040), Total Lead content in paint and surface coating, Sec 101 (f) and 16 CFR 1303
The submitted sample **complied** with the test requirement.
- USA Consumer Product Safety Improvement Act (HR4040), Total Lead content in children's products, Sec 101(a)
The submitted sample **complied** with the test requirement.
- USA Consumer Product Safety Improvement Act (HR4040), phthalates content in accordance with Sec 108
The submitted sample **complied** with the test requirement.
- Phthalates content in accordance with EU Decision 2005/84/EC
The submitted sample(s) **complied** with the test requirement.

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AGE GRADING:

The sample did not contain an age grade, however, it was considered appropriate for children of 18 months and up.

AGE GRADING FOR TESTING:

18 months and up.

TEST RESULTS:

1. EN71

1.1 EN71-1:2005+A4:2007 - Part 1: Mechanical and physical tests

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	
4.1	Materials	Pass
4.7	Edges	Pass
4.8	Points and wires	Pass
5	<u>Toys intended for children under 36 months</u>	
5.1	General requirements	Pass
7	<u>Marking and instructions for use</u>	
7.1	General	* ¹

****No CE mark****

*¹ = The manufacturer or his authorized representative or the importer into the community shall affix the CE marking as given in European Council Directive 93/68/EEC of 22 July 1993 as declaration of presumption of conformity with the essential safety requirements of the European Council Directive 88/378/EEC of 3 May 1988 concerning the safety of toys.

1.2 EN 71-2: 2006+A1:2007-Part2: Flammability test

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

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- 1.3 EN71-3:1994+A1:2000+AC:2002 - Part 3: Migration of certain elements
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Plastic material

- (a) Racer duck(Z00055/Z10006): blue
- (b) Base racer duck(Z00055/Z10006): yellow

Coating material

- (c) Mouths of racer duck(Z00055/Z10006): yellow
- (d) Body of racer duck Z00055/Z10006):red
- (e) Body/eye of racer duck Z00055/Z10006): black/white
- (f) Body of racer duck Z00055/Z10006): white

	<u>a</u>	<u>b</u>	<u>c</u>	<u>Limit</u>
Soluble Lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble Cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble Chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Barium.....	2mg/kg	<2mg/kg	4mg/kg	1000mg/kg
Soluble Antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

	<u>d</u>	<u>e</u>	<u>f</u>	<u>Limit</u>
Soluble Lead.....	<2mg/kg	4mg/kg	2mg/kg	90mg/kg
Soluble Cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble Chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Barium.....	31mg/kg	3mg/kg	3mg/kg	1000mg/kg
Soluble Antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

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2. ASTM F 963-07^{E1}

2.1 Mechanical and physical hazards tests

Ref.: ASTM F963-07^{E1}

Applicable requirements before and after use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	
4.1	Material quality	Pass
4.2	Flammability	Pass
4.6	Small objects	Pass
4.7	Accessible edges	Pass
4.9	Accessible points	Pass
5	<u>Labeling requirements</u>	
5.1	Federal government requirements	Pass
5.2	Age grading labeling	* ²
7	<u>Producer's markings</u>	
7.1	Producer's markings	* ³

*² = See age grading

*³ = No all information

Use and abuse testing:

<u>Applicable Clause</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal use testing	
8.6	Abuse testing	
8.7	Impact tests	4 drops at 3ft.
8.8	Torque tests	4 in-lbs.
8.9	Tension tests	15 lbs.
8.10	Compression	30 lbs.

2.2 Flammability test of material other than textiles of sample group

Ref. : ASTM F963-07^{E1} Clause 4.2

Method used: FHSA 16 CFR 1500.44

Result: pass

The sample did not ignite

Note: In accordance with the FHSA, the burning rate should not be greater Than 0.1 inch per second

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2.3 Heavy metals analysis

Ref.: ASTM F963-07^{E1} Clause 4.3.5

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Total lead analysis

Coating material

- (a) Mouths of racer duck(Z00055/Z10006): yellow
- (b) Body of racer duck Z00055/Z10006):red
- (c) Body/eye of racer duck Z00055/Z10006): black/white
- (d) Body of racer duck Z00055/Z10006): white

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
a	0.004%	0.06%
b	<0.001%	0.06%
c	<0.001%	0.06%
d	0.004%	0.06%

Soluble metals test

Coating material

- (a) Mouths of racer duck(Z00055/Z10006): yellow
- (b) Body of racer duck Z00055/Z10006):red
- (c) Body/eye of racer duck Z00055/Z10006): black/white
- (d) Body of racer duck Z00055/Z10006): white

	<u>a</u>	<u>b</u>	<u>c</u>	<u>Limit</u>
Soluble Lead.....	<2ppm	<2ppm	4ppm	90ppm
Soluble Cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble Chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble Barium.....	4ppm	31ppm	3ppm	1000ppm
Soluble Antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble Arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble Mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble Selenium.....	<2ppm	<2ppm	<2ppm	500ppm

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	<u>d</u>	<u>Limit</u>
Soluble Lead.....	2ppm	90ppm
Soluble Cadmium.....	<2ppm	75ppm
Soluble Chromium.....	<2ppm	60ppm
Soluble Barium.....	3ppm	1000ppm
Soluble Antimony.....	<2ppm	60ppm
Soluble Arsenic.....	<2ppm	25ppm
Soluble Mercury.....	<2ppm	60ppm
Soluble Selenium.....	<2ppm	500ppm

3 USA Consumer Product Safety Improvement Act (HR4040)

- (1) Children's products containing lead - Total Lead content in paint and surface coating
Ref.: 16 CFR 1303
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Coating material

- (a) Mouths of racer duck(Z00055/Z10006): yellow
(b) Body of racer duck Z00055/Z10006):red
(c) Body/eye of racer duck Z00055/Z10006): black/white
(d) Body of racer duck Z00055/Z10006): white

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Limit</u> (beginning 14 August 2009)
a	0.004%	0.06%	0.009%
b	<0.001%	0.06%	0.009%
c	<0.001%	0.06%	0.009%
d	0.004%	0.06%	0.009%

- (2) Children's products containing lead - Total Lead content
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Plastic material

- (a) Racer duck(Z00055/Z10006): blue
(b) Base racer duck(Z00055/Z10006): yellow

<u>Sample</u>	<u>Result</u>	<u>Limit</u>	<u>Limit</u> (beginning 14 August 2009)
a	<10ppm	600ppm	300ppm
b	<10ppm	600ppm	300ppm

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(3) Phthalates content

Method used: Gas Chromatography with Mass Selective Detector

PVC material

- (a) Racer duck(Z00055/Z10006): blue plastic
- (b) Base racer duck(Z00055/Z10006): yellow plastic

Others material

- (c) Mouths of racer duck(Z00055/Z10006): yellow coating
- (d) Body of racer duck Z00055/Z10006:red coating
- (e) Body/eye of racer duck Z00055/Z10006): black/white coating
- (f) Body of racer duck Z00055/Z10006): white coating

	<u>a</u>	<u>b</u>
- Di-n-butyl phthalate (DBP)	<0.005%	<0.005%
- Benzyl-n-butyl phthalate (BBP)	<0.005%	<0.005%
- Di (2-ethylhexyl) phthalate (DEHP)	<0.005%	<0.005%
	<u>c</u>	<u>d</u>
- Di-n-butyl phthalate (DBP)	<0.005%	<0.005%
- Benzyl-n-butyl phthalate (BBP)	<0.005%	<0.005%
- Di (2-ethylhexyl) phthalate (DEHP)	0.006%	<0.005%
	<u>e</u>	<u>f</u>
- Di-n-butyl phthalate (DBP)	<0.005%	<0.005%
- Benzyl-n-butyl phthalate (BBP)	<0.005%	<0.005%
- Di (2-ethylhexyl) phthalate (DEHP)	<0.005%	<0.005%

Requirement: Each of the above phthalates shall not be greater than 0.1% by mass of the tested material.

	<u>a</u>	<u>b</u>
- Di-n-octyl phthalate (DNOP)	<0.005%	<0.005%
- Diisononyl phthalate (DINP)	<0.01%	<0.01%
- Diisodecyl phthalate (DIDP)	<0.01%	<0.01%

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-	Di-n-octyl phthalate (DNOP)	<u>c</u> <0.005%	<u>d</u> <0.005%
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%
-	Di-n-octyl phthalate (DNOP)	<u>e</u> <0.005%	<u>f</u> <0.005%
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%

Requirement: Each of the above phthalates shall not be greater than 0.1% by mass of the tested material which can be placed in the mouth by children.

4

Phthalate content

Ref.: EU Directive 2005/84/EC

Method used: Gas Chromatography with Mass Selective Detector

PVC material

- (a) Racer duck(Z00055/Z10006): blue plastic
- (b) Base racer duck(Z00055/Z10006): yellow plastic

Others material

- (c) Mouths of racer duck(Z00055/Z10006): yellow coating
- (d) Body of racer duck Z00055/Z10006:red coating
- (e) Body/eye of racer duck Z00055/Z10006): black/white coating
- (f) Body of racer duck Z00055/Z10006): white coating

Full name	a	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

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Full name	b	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	c	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	0.006%	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	d	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	e	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	f	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

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Notes: Method detection limit for DBP, BBP, DEHP and DNOP = 0.005% (W/W)
Method detection limit for DIDP and DINP = 0.01% (W/W)

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Appendix for Photos of the Submitted Sample(s)



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