



Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

**REPORT NO. : 07-1082****DATE: APRIL 26, 2007****PAGE: 1 OF 14**

**APPLICANT** : **TRUDI S.p.A**  
Via A. Angeli, 120  
33017 Tarcento – Udine

**CONTACT PERSON** : Ms Carol Hoefken

**SAMPLE DESCRIPTION** : Three pieces of submitted sample said to be:  
FROGGY (81980)  
(see attached photo)



**DATE OF SUBMISSION** : 2007-04-12

**TESTING PERIOD** : 2007-04-13 to 2007-04-23

**LABELED AGE GRADING** : 4+

**AGE GRADING FOR TESTING** : Ages 3 and up.



Ing. Natale Consonni  
Technical Director  
*Natale Consonni*  
For and behalf of Istituto Italiano  
Sicurezza dei Giocattoli in accordance  
with the requirements of European  
Directive 88/378 on Toys Safety

Approval Laboratory Signature

*Tracy*

Approval Laboratory Signature

This Test Report is used by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issue defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated.  
This Test Report cannot be reproduced, except in full, without prior written permission of the Company.

Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 2 OF 14

## SUMMARY OF TEST RESULTS

TEST REQUESTED	PASS	FAIL	REMARK
EN 71 part 1	X		
EN 71 part 2	X		
EN 71 part 3	X		
ASTM F963-03	X		Exclude clause 5
Resistance to Saliva and Perspiration (DIN 53160)	X		
Definition total lead and cadmium on paint	X		
Benzene	X		
Label Requirements Checking	X		

## EXECUTIVE SUMMARY:

The samples are IN COMPLIANCE WITH the following requirement(s) requested by the client:

-	The mechanical and physical properties requirements of the European Standard, "Safety of Toys", EN 71: Part 1: 1998 and Amendments – A1:2001, A2:2002, A4:2004, A5:2000, A6:2002, A7:2002, A8:2003, A9:2004, A10:2004 and A11:2004.
-	The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2:2006.
-	Exclude clause 5, the requirements of ASTM F963-03, "Standard consumer safety specification for toy safety"
-	The migration of certain elements requirements of the European Standard "Safety of Toys", EN 71: Part 3:1994 and Amendments – A1:2000.
-	Colour fastness to saliva and perspiration (DIN53160)
-	Definition total Lead and cadmium on paint
-	Assessment of solvents.
-	Label Requirements Checking

Note: Amendment A9:2004 of European Standard EN71: Part 1:1998 is not a harmonized standard.

Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 3 OF 14

**EXPLANATION OF THE ABBREVIATIONS FOR EN 71 PART 1 & 2:**

<u>Symbol</u>	<u>Explanation</u>	<u>Symbol</u>	<u>Explanation</u>
F	The samples are NOT IN COMPLIANCE WITH the requirement of this Subclause	NE	Not Evaluated
P	The samples are IN COMPLIANCE WITH the requirement of this Subclause	NPR	Not Present
N/A	Not Applicable	PR	Present
NR	Not Requested	R	Refer to Comment Section of this report

**1. MECHANICAL & PHYSICAL PROPERTIES (EN 71: Part 1: 1998 and Amendments – A1:2001, A2:2002, A4:2004, A5:2000, A6:2002, A8:2003, A9:2004, A10:2004 and A11:2004)****RESULTS:**

Subclause	Requirement	Result
<b>4</b>	<b>General requirements</b>	<b>P</b>
4.1	Materials	P
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy Bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	P
4.8	Points and wires	P
4.9	Protruding parts	P
4.10	Parts moving against each other	N/A
4.11	Mouth actuated toys	N/A
4.12	Balloons & warning on package	N/A
4.13	Toy Kites and other flying toys & warning on toys	N/A
4.14	Enclosures	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys	N/A
4.19	Percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a heat source	N/A
4.22	Small balls	N/A
<b>5</b>	<b>Toys intended for children under 36 months</b>	<b>N/A</b>
<b>6</b>	<b>Packaging</b>	<b>N/A</b>

Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 4 OF 14

Subclause	Requirement	Result
<b>7</b>	<b>Warnings and instructions for use</b>	<b>P</b>
7.1	General.	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	N/A
7.4	Toys intended to bear the mass of a child	N/A
7.5	Aquatic toys	N/A
7.6	Functional toys	N/A
7.7	Hazardous sharp functional edges and points	N/A
7.8	Projectiles	N/A
7.9	Imitation protective masks and helmets	N/A
7.10	Toy kites	N/A
7.11	Roller skates and skateboards warning on toys or packaging	N/A
7.12	Toys intended to be strung across a cradle, cot, or perambulator	N/A
7.13	Liquid-filled teethingers	N/A
7.14	Percussion caps specifically designed for use in toys	N/A
7.15	Acoustics	N/A
7.16	Toy bicycles	N/A
7.17	Toys intended to bear the mass of a child	N/A
7.18	Toys comprising monofilament fibers	N/A
7.19	Small Balls	N/A
7.20	Toys Scooters	N/A

## 2. FLAMMABILITY (EN 71: Part 2: 2006)

### RESULTS:

Subclause	Requirement	Result
<b>4</b>	<b>Requirements</b>	<b>P</b>
4.1	General	NPR
4.2	Toys to be worn on the head which include beards, moustaches, wigs, etc made from hair pile or material with similar features, moulded and fabric masks, and flowing material attached to hats, masks	N/A
4.3	Toy disguise costumes and toys intended to be worn by child on play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Filled soft toys with a piled or textile surface	N/A



Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

**REPORT NO. : 07-1082****DATE: APRIL 26, 2007****PAGE: 5 OF 14****Parts Description:**

No.	Raw Material	Position	Color
a	Coating material	Body/accessories	1235 orange(refer to 06-532c)
b	Coating material	Body/accessories	1505 orange(refer to 06-532e)
c	Coating material	Body/accessories	172 orange(refer to 06-532i)
d	Coating material	Body/accessories	213 fusia(refer to 06-532k)
e	Coating material	Body/accessories	376 green(refer to 06-935h)
f	Coating material	Body/accessories	7451 blue(refer to 07-595s)
g	Coating material	Body/accessories	White(refer to 06-532h)
h	Coating material	Body/accessories	Red(refer to 06-532n)
i	Coating material	Surface/accessories	Multicolor transfer print
j	Coating material	Froggy frames	Light blue/green/mango yellow
k	Coating material	Froggy frames	Cherry pink
l	Coating material	Froggy frames	Mango yellow
m	Coating material	Froggy frames	Deep mango yellow
n	Coating material	Froggy frames	Blue
o	Paper and cardboard	Froggy frames	Brown cardboard
p	Other material	Body	Light brown wood(refer to 07-595y)

Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 6 OF 14

**RESULTS:****3. EN71-3:1994, amendment A1:2000 - Part 3: Migration of certain elements**

Method equipment: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

parts	lead	cadmium	chromium	barium	antimony	arsenic	selenium	mercury
a	<8	<1	<2	60	2	<1	<3	9
b	<8	<1	<2	21	2	<1	<3	4
c	<8	<1	<2	251	<2	<1	<3	<1
d	<8	<1	<2	<10	<2	<1	<3	<1
e	<8	<1	<2	281	<2	<1	<3	<1
f	<8	<1	<2	<10	<2	<1	<3	<1
g	<8	<1	<2	<10	<2	<1	<3	<1
h	<8	<1	<2	260	<2	<1	<3	<1
i	<8	<1	<2	10	<2	<1	<3	<1
j	10	<1	<2	<10	<2	<1	<3	<1
k + n	<8	<1	<2	<10	<2	<1	<3	<1
l + m	<8	<1	<2	<10	<2	<1	<3	<1
o	<8	<1	<2	<10	<2	<1	<3	<1
p	<8	<1	<2	<10	<2	<1	<3	<1
<b>Limit</b>	<b>90</b>	<b>75</b>	<b>60</b>	<b>1000</b>	<b>60</b>	<b>25</b>	<b>500</b>	<b>60</b>

Note:

The results expressed are in mg/kg

The symbol &lt; followed by a number indicates that the concentration of the element is less than the detection limit expressed by that number.

The value in mg following a part indicates the part quantity used for the test. It is indicated only if the part present in the sample is less than 100 mg (See EN 71/3 - Par. 10)



Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

**REPORT NO. : 07-1082****DATE: APRIL 26, 2007****PAGE: 7 OF 14**

## 4. MECHANICAL & PHYSICAL PROPERTIES (ASTM F963-03)

### RESULTS:

Subclause	Requirement	Result
4.1	Material Quality	P
4.2	Flammability	P
4.3	Toxicology	N/A
4.3.7	Stuffing materials	N/A
4.4	Electrical/Thermal Energy – 120V	N/A
4.5	Sound – Producing Toys	N/A
4.6	Small Objects	P
4.7	Accessible Edges	P
4.8	Projections	P
4.9	Accessible Points	P
4.10	Wires or rods	N/A
4.11	Nails and Fasteners	P
4.12	Packaging Film	N/A
4.13	Folding Mechanism and Hinges	N/A
4.14	Cords and Elastics	N/A
4.15	Stability and Over-Load	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearance, and accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery operated toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Toy Chest	N/A
4.28	Stuffed and Beanbag – Type Toys	N/A
4.31	Toy Gun Marking	N/A
4.33	Certain Toys with Spherical Ends	N/A
4.34	Marbles	N/A
4.35	Balls	N/A
4.36	Pompoms	N/A
4.37	Hemispheric – Shaped Objects	N/A

Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 8 OF 14

Subclause	Requirement	Result
5.1 / 5.2	Federal Government Requirement	P
5.3	Safety labeling Requirements	P
5.3+5.4	Aquatic Toys	N/A
5.3+5.5	Crib and Playpen Toys	N/A
5.3+5.6	Mobiles	N/A
5.3+5.7	Stroller and Carriage Toys	N/A
5.3+5.8	Toys Intended to be Assembled by an Adult	N/A
5.3+5.9	Simulated Protective Devices	N/A
5.3+5.10	Toys with Functional Sharp Edges or Point	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	Pending <sup>*1</sup>
5.12	Toys Caps	N/A
5.13	Art Material	N/A
5.15	Battery – Operated Toys	N/A
5.3+5.15.1	Battery-Powered Ride On Toy	N/A
5.16	Promotional Materials	P
6	Instructional Literature	P
6.1	Definition and Description	P
6.2	Toy Chests	N/A
6.3	Crib and Playpen Toys	N/A
6.4	Mobiles	N/A
5.3+6.5	Toy intended to be Assembled by an Adult	N/A
6.6.1+	Battery-Operated Toys	N/A
6.6.3	Battery-Powered Ride-On toys	N/A
6.7	Toys in Contact with Food	N/A
7	Producer's Marking	P
7.1	Producer's Name and Address	P
7.2	Toy Chests	N/A
7.3	Battery-Powered Ride-On Toys	N/A

<sup>\*1</sup> – The “small part” warning label was not presented in the principal display panel of package.



Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 9 OF 14

## 5. Definition of total Content of Lead and Cadmium on paint

Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

parts	lead	cadmium
a	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
b	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
c	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
d	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
e	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
f	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
g	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
h	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
i	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
j	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
k + n	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
l + m	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
<b>Limit</b>	<b>Not detectable</b>	<b>100mg/kg</b>
Note: The results expressed are in mg/kg The symbol < followed by a number indicates that the concentration of the element is less than the detection limit expressed by that number.		



Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

**REPORT NO. : 07-1082****DATE: APRIL 26, 2007****PAGE: 10 OF 14****6. Resistance to Saliva and Sweat**

Standards / Norms: DIN 53160 (German Test Method, Section 35 LMBG 82.10-1 June 1985)

parts	resistant to saliva	resistant to perspiration
a	Grade 5	Grade 5
b	Grade 5	Grade 5
c	Grade 5	Grade 5
d	Grade 5	Grade 5
e	Grade 5	Grade 5
f	Grade 5	Grade 5
g	Grade 5	Grade 5
h	Grade 5	Grade 5
i	Grade 5	Grade 5
j	Grade 5	Grade 5
k	Grade 5	Grade 5
l	Grade 5	Grade 5
m	Grade 5	Grade 5
n	Grade 5	Grade 5
o	Grade 5	Grade 5
<b>Limit</b>	<b>Resistent</b> <b>[Not less 4-5 (grey scale)]</b>	



Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

**REPORT NO. : 07-1082****DATE: APRIL 26, 2007****PAGE: 11 OF 14****7. Painted/Varnished Materials – Determination of Benzene Residue**

Method used: Gaschromatograph with FID and/or Mass Detector

Tested Parts	Result
<b>Mix paints on Wood</b>	
Benzene	Not Detectable (<5 mg/kg)
<b>Painted book Paper</b>	
Benzene	Not Detectable (<5 mg/kg)
<b>Wood material</b>	
Benzene	Not Detectable (<5 mg/kg)

Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 12 OF 14

## 8. Label Checking

LABELLING REQUIREMENTS	LEGISLATIVE REFERENCE	CRITERIA	RESULTS	REMARKS
Uniform Packaging and Labelling Regulation	UPLR and Directive 88/378/CE	-Manufacturer, packer or distributor name and address (either on the toy and on the packaging) -Product identification -Net contents/quantity -Read and keep them for reference (when the above indicated information are on the packaging)	PASS	
Country of origin	19 CFR 134	Shall be indicated the country of origin on the toy and on the packaging	PASS	
CE marking	Directive 88/378	For European market the CE marking should be present on the toy or its packaging.	PASS	
Specific safety labelling requirement according to test results	ASTM F963-03 EN 71-1	According to mechanical/physical test results specific warning should be indicated sue to specific hazard of the product related to the age grading	PASS	
Crib and playpen toys, mobile intended to be attached to a crib or playpen	ASTM F963-03	- <i>"WARNING!Possible entanglement injury. Keep out of baby's reach. Remove mobile from crib and playpen when baby begins to push up on habds and knees."</i> -Mobile and its packaging shall be labelled with <i>"from birth to 5 month"</i> . -Shall be provided with instruction for proper assembly, installation and use to insure that the product does not present entanglement or strangulation hazard. Other specific information should be provided according to paragraphs 6.3 and 6.4.	N/A	



# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 13 OF 14

Mobile to be attached to the ceiling or wall	ASTM F963-03	<p>-<i>"WARNING! Possible entanglement injury. Keep out of baby's reach."</i></p> <p>-Shall be provided with instruction for proper assembly, installation and use to insure that the product does not present entanglement or strangulation hazard. Other specific information should be provided according to paragraphs 6.3 and 6.4.</p>	N/A	
Stroller and Carriage toys	ASTM F963-03	<p>-<i>"WARNING! Possible entanglement injury when attached to crib or playpen. Do not attach to crib or playpen."</i></p> <p>-Shall be provided with instruction for proper assembly, installation and use to insure that the product does not present entanglement or strangulation hazard. Other specific information should be provided according to paragraphs 6.3 and 6.4.</p>	N/A	
Toy intended to be assembled by an adult	ASTM F963-03	On the packaging shall be indicated that the toy is to be assembled by an adult for the presence of hazardous sharp edge and points or small parts.	N/A	
Electrical Toy	ASTM F963-03, 16 CFR 15005	<p>A toy shall be market with:</p> <p>-Rating in volt and ampere (on battery division)</p> <p>-Polarity and shape of batteries in real or proportional dimension</p> <p>-<i>"CAUTION-ELECTRIC TOY"</i></p> <p>-The date (month and year) of manufacture (in alternative it should be on the instruction)</p> <p>-On the instruction booklet and the pack: "CAUTION-ELECTRIC TOY/PRODUCT: Not recommended for children under ....years of age. As with all electrical products, precaution should be observed during handling and use to</p>	N/A	

Unit D, 4/F, Leroy Plaza, 15 Cheung Shun Street, Cheung Sha Wan, Kowloon, Hong Kong  
Tel: (852) 2144 1899 Fax: (852) 2144 0663 Email: infohk@icqglobal.com

# Test Report

REPORT NO. : 07-1082

DATE: APRIL 26, 2007

PAGE: 14 OF 14

		prevent a shock."		
Battery operated toy	ASTM F963-03 EN 50088	On the instruction:  -Indication about how to remove and change batteries  -Use batteries of the same type or equivalent to the one recommended  -Do not mix old and new batteries  -Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel cadmium) batteries  - Insert batteries respecting the polarity  - Do not recharge not rechargeable batteries  -Removed rechargeable batteries from the toys before recharge them  -Rechargeable batteries have to be recharged under the supervision of an adult  - Removed unloaded batteries from the toy  - Do not circuit power clamp  -Toy with non-replaceable batteries that are accessible with the use of a coin, a screwdriver or other common household tool shall bear a statement that battery is not replaceable. If it is not possible to put this information on the product, it shall be placed on the packaging or the instruction.	N/A	

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