



Test Report

APPLICANT : **TRUDI SPA**
Via Europa, 28
22060 Cabiato (CO) – Italia

CONTACT PERSON : Ms. Carol Hoefken

SAMPLE DESCRIPTION : **WORK BENCH**
ITEM NO.: 82082
SUPPLIER: SKY-BLUE GIFTS & TOYS CO., LTD.
DIMENSIONS: X=460mm ; Y=440mm ; Z=668mm



DATE OF SUBMISSION : 2008-12-01

TESTING PERIOD : 2008-12-02 To 2009-01-19

LABELED AGE GRADING : 36months+

AGE GRADING FOR TESTING : As declared by the client



Rapporto revisionato e approvato da
(revised and approved by)
Elisa Gavazza
Dott.ssa Elisa Gavazza
Direttore Tecnico
Technical Director

Istituto Italiano Sicurezza dei Giocattoli
Direttiva 88/378 Sicurezza dei Giocattoli
Directive 88/378 on Toys Safety

Approval Laboratory Signature

Approval Laboratory Signature

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Test Report

SUMMARY OF TEST RESULTS			
Test requested	Pass	Fail	Remark
EN71-1:2005 and amendment A6:2008 "Safety of toys – Part 1: Mechanical and physical properties"	X		
EN71-2:2006 and amendment A1:2007 "Safety of toys – Part 2: Flammability"	X		
EN71-3:1994 and amendments A1:2000+AC:2002 "Safety of toys – Part 3: Migration of certain elements"	X		
Resistance to Saliva and Perspiration (DIN 53160)	X		
Definition total Lead and cadmium on paint	X		

EXPLANATION OF THE ABBREVIATIONS FOR EN71 PART 1 AND 2

SYMBOL	EXPLANATION	SYMBOL	EXPLANATION
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
NA	Not Applicable	PR	Present
NR	Not Requested	R	Refer to the Comment Section



Test Report

1. MECHANICAL & PHYSICAL PROPERTIES (EN71-1:2005 and Amendment A6:2008)

RESULTS:

SUBCLAUSE	REQUIREMENT	RESULT
4	GENERAL REQUIREMENTS	P
4.1	Material	P
4.2	Assembly	P
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	P
4.17	Projectiles	NA
4.18	Aquatic toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	NA
6	PACKAGING	NA



Test Report

<u>SUBCLAUSE</u>	<u>REQUIREMENT</u>	<u>RESULT</u>
7	WARNINGS AND INSTRUCTIONS FOR USE	NR
7.1	General	NR
7.2	Toys not intended for children under 36 months	NR
7.3	Latex balloons	NR
7.4	Aquatic toys	NR
7.5	Functional toys	NR
7.6	Hazardous sharp functional edges and points	NR
7.7	Projectiles	NR
7.8	Imitation protective masks and helmets	NR
7.9	Toy kites	NR
7.10	Roller skates, inline skates and toy skateboards	NR
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NR
7.12	Liquid-filled teethingers	NR
7.13	Percussion caps specifically designed for use in toys	NR
7.14	Acoustics	NR
7.15	Toy bicycles	NR
7.16	Toys intended to bear the mass of a child	NR
7.17	Toys comprising monofilament fibres	NR
7.18	Toy scooters	NR

2. FLAMMABILITY PROPERTIES (EN71-2:2006 and Amendment A1:2007)

RESULTS:

<u>SUBCLAUSE</u>	<u>REQUIREMENT</u>	<u>RESULT</u>
4	REQUIREMENTS	P
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys with a piled or textile surface	NA

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Test Report

IDENTIFICATION PARTS			
No.	Description	Position	Color
1	Coating material	Orange color/red color on sample	Red (refer to 09-31)
2	Coating material	Orange color/light yellow color/light green color on sample	Yellow (refer to 09-31)
3	Coating material	Light yellow color/light blue color/light green color on sample	White (refer to 09-31)
4	Coating material	Light blue color/blue color on sample	Blue (refer to 09-31)
5	Coating material	Light green color on sample	Green (refer to 09-31)
6	Other material	Body/accessories	Light brown wood(refer to 09-31)

RESULTS:

3.	Migration of certain elements
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Method: European Standard EN 71- 3: 1994 + A1:2000 + AC:2002

Instrument: ICP-Plasma Spectrometer

Principle: The soluble elements are extracted by hydrochloric acid 0.07N and determined spectrometrically

Parts	mg	Pb	Cd	Cr	Ba	Sb	As	Se	Hg
1		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
3		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
5		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
6		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Limits		90	75	60	1000	60	25	500	60

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. 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) The elements determined are: Pb - Soluble Lead; Cr - Soluble Chromium; Hg - Soluble Mercury; Sb - Soluble Antimony; Cd - Soluble Cadmium; Ba - Soluble Barium; Se - Soluble Selenium; As - Soluble Arsenic.



Test Report

4. Saliva and Perspiration Resistance

Method: DIN 53160-1 & DIN 53160-2 (German Test Method, Section 35 LMBG 82.10-1 June 1985)

Instrument: Usual Laboratory Equipment

Principle: The sample is put in contact with artificial saliva and perspiration (2 hrs at 40°C), considered the discoloration of the sample and the possible colour migration is observed.

Parts	Saliva	Perspiration
1	Grade 5	Grade 5
2	Grade 5	Grade 5
3	Grade 5	Grade 5
4	Grade 5	Grade 5
5	Grade 5	Grade 5
Limits	Not less of Grade 4-5 Grey scale	Not less of Grade 4-5 Grey scale

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

Instrument: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Parts	Lead	Cadmium
1	<20 mg/kg	<20 mg/kg
2	<20 mg/kg	<20 mg/kg
3	<20 mg/kg	<20 mg/kg
4	<20 mg/kg	<20 mg/kg
5	<20 mg/kg	<20 mg/kg
Limit	Not Detectable	100mg/kg

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.

*****END OF TEST REPORT*****