



Test Report

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

CONTACT PERSON : Ms. Carol Hoefken

SAMPLE DESCRIPTION : **LETTERS**
ITEM NO: 81601-81626
(See attached sample photo in page 2)

DATE OF SUBMISSION : 2008-11-19
TESTING PERIOD : 2008-11-20 To 2008-12-02
LABELED AGE GRADING : Ages 3 and up
AGE GRADING FOR TESTING : Ages over 10 months

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		



Rapporto revisionato e approvato da
Report revised and approved by
[Signature]
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

[Signature]

Approval Laboratory Signature

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SAMPLE DESCRIPTION :
(CON'T)



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	NA
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	NA
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	P
6	PACKAGING	NA

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

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

RESULTS:

SUBCLAUSE	REQUIREMENT	RESULT
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 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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Parts Description:

No.	Raw Material	Position	Color
1	Coating material (see note 2)	Letter D/ Letter I (Blue style)/ Letter N/ Letter T/ Letter U (Blue style)/	277 CVU Lt. Blue/ White underlying
2	Coating material	Letter A/ Letter B/ Letter C/ Letter F/ Letter G/ Letter H (Hippo style/ Cock style)/ Letter I (Red sheep style/ green crocodile style)/ Letter I (Orange style)/ Letter J/ Letter K/ Letter O (Green style)/ Letter Q/ Letter S/ Letter T/ Letter V (Bird style/ horse style)/ Letter X/ Letter Y/ Letter Z	485 CVU Red (Transfer result from 08-4908 #23)
3	Coating material	Letter F/ Letter H/ Letter P/ Letter T/ Letter Z	Black (Transfer result from 08-4908 #24)
4	Coating material (see note 1)	Letter B/ Letter D/ Letter E/ Letter F/ Letter G/ Letter H(Hippo style)/ Letter I (Blue sheep style/ red sheep style)/ Letter J/ Letter K/ Letter L/ Letter M/ Letter N/ Letter O (Blue style)/ Letter P/ Letter R/ Letter T/ Letter U (bird style/ blue horse style/ green horse style)/ Letter V (Bird style/ horse style)/ Letter W/ Letter X/ Letter Y/ Letter Z)	White
5	Coating material (see note 1)	Letter C/ Letter E/ Letter G/ Letter H (Hippo style)/ Letter I (Blue style/ red style)/ Letter J/ Letter K/ Letter L/ Letter M/ Letter N/ Letter O (Blue style)/ Letter R/ Letter S/ Letter U (bird style/ blue horse style/ green horse style)/ Letter V(Bird style/ horse style)/ Letter W/ Letter X/ Letter Y	011 CVU Warm Gray
6	Coating material (see note 1)	Letter D/ Letter E/ Letter F/ Letter I (Blue sheep style)/ Letter L/ Letter O (Blue style)/ Letter P/ Letter R/ Letter W	072 CVU Dk. Blue
7	Coating material	Letter C/ Letter F/ Letter G/ Letter N/ Letter O (Green style)/ Letter P/ Letter Q/ Letter S/ Letter T/ Letter U (bird style/ blue horse style/ green horse style)/ Letter Y	107 CVU Yellow
8	Coating material	Letter A (Deep orange style)/ Letter B/ Letter F/ Letter G/ Letter H (Hippo style/ Cock style)/ Letter I (Red sheep style/ green crocodile style)/ Letter M/ Letter N/ Letter Q/ Letter T/ Letter U (bird style/ blue horse style/ green horse style)/ Letter V (Bird style)/ Letter W/ Letter Y	123 CVU Lt. Orange
9	Coating material	Letter B/ Letter I (Blue sheep style/ red sheep style)/ Letter J/ Letter L/ Letter M/ Letter O (Green style/ blue style)/ Letter U (Bird style)/ Letter V (Bird style/ horse style)/ Letter W/ Letter X/ Letter Y	141 CVU Peach
10	Coating material	Letter B/ Letter G/ Letter H (Cock style)/ Letter I (Blue sheep style/ red sheep style)/	145 CVU Dk. Orange

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		Letter J/ Letter L/ Letter M/ Letter O(Green style/ blue style)/ Letter U (Bird style)/ Letter V (Bird style/ horse style)/ Letter X/ Letter Y	
11	Coating material	Letter A/ Letter H (Hippo style/ Cock style)/ Letter I (Green crocodile style)/ Letter J/ Letter K/ Letter N/ Letter S/ Letter V (Bird style/ horse style)/ Letter X/ Letter Z	158 CVU Orange
12	Coating material	Letter B/ Letter F/ Letter U (Green horse style/ blue horse style)/	182 CVU Pink
13	Coating material	Letter D/ Letter E/ Letter F/ Letter H/ Letter L/ Letter N/ Letter O (Blue style)/ Letter P/ Letter R/ Letter T/ Letter U (Blue horse/ green horse style)/ Letter W	279 CVU Blue
14	Coating material	Letter A/ Letter C/ Letter H/ Letter I (Green crocodile style)/ Letter Q/ Letter S/ Letter U (Bird style/ green horse style)/	363 CVU Dk. Green
15	Coating material	Letter A/ Letter C/ Letter H/ Letter I (Green crocodile style)/ Letter K/ Letter O (Green style)/ Letter Q/ Letter S/ Letter U (Bird style/ green horse style)/ Letter Z	376 CVU Lt. Green
16	Coating material (see note 1)	Letter E/ Letter H (Hippo style)/ Letter R	428 C2VU Lt. Grey
17	Coating material	Letter E/ Letter H (Hippo style)/ Letter R	429 CVU Dk. Grey
18	Coating material	Letter K	465 CVU Lt. Brown
19	Other material	Wood (All styles)	Brown

Note 1: There were insufficient coating materials to produce the test portion of 100 mg. According to the Standard, the quantities of the elements were calculated as if 100 mg of test portion had been used. The actual weights of the specified coating material used for analysis are shown below:

4	Letter B/ Letter D/ Letter E/ Letter F/ Letter G/ Letter H(Hippo style)/ Letter I (Blue sheep style/ red sheep style)/ Letter J/ Letter K/ Letter L/ Letter M/ Letter N/ Letter O (Blue style)/ Letter P/ Letter R/ Letter T/ Letter U (bird style/ blue horse style/ green horse style)/ Letter V (Bird style/ horse style)/ Letter W/ Letter X/ Letter Y/ Letter Z)	17.0mg
5	Letter C/ Letter E/ Letter G/ Letter H (Hippo style)/ Letter I (Blue style/ red style)/ Letter J/ Letter K/ Letter L/ Letter M/ Letter N/ Letter O (Blue style)/ Letter R/ Letter S/ Letter U (bird style/ blue horse style/ green horse style)/ Letter V(Bird style/ horse style)/ Letter W/ Letter X/ Letter Y	55.0mg
6	Letter D/ Letter E/ Letter F/ Letter I (Blue sheep style)/ Letter L/ Letter O (Blue style)/ Letter P/ Letter R/ Letter W	91.7mg
16	Letter E/ Letter H (Hippo style)/ Letter R	71.3mg

Note 2: The following coatings were insufficient to form testing material of 10mg; hence, they were not tested in accordance with the Standard:

Letter D/ Letter I (Blue style)/ Letter N/ Letter T/ Letter U (Blue style): 277 CVU Lt. Blue/ White underlying



Test Report

3. EN71-3:1994, amendment A1:2000 +AC:2002 - Part 3: Migration of certain elements

Test equipment: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

RESULTS:

Parts	lead	cadmium	chromium	barium	antimony	arsenic	selenium	Mercury
2	<8	<1	<2	23	<2	<1	<3	<1
3	<8	<1	<2	<10	<2	<1	<3	<1
4	<8	<1	<2	16	<2	<1	<3	<1
5	<8	<1	<2	<10	<2	<1	<3	<1
6	<8	<1	<2	20	<2	<1	<3	<1
7	<8	<1	<2	<10	<2	<1	<3	<1
8	<8	<1	<2	40	<2	<1	<3	<1
9	<8	<1	<2	65	<2	<1	<3	<1
10	<8	<1	<2	97	<2	<1	<3	<1
11	<8	<1	<2	17	<2	<1	<3	<1
12	<8	<1	<2	<10	<2	<1	<3	<1
13	<8	<1	<2	30	<2	<1	<3	<1
14	<8	<1	<2	68	<2	<1	<3	<1
15	<8	<1	<2	15	<2	<1	<3	<1
16	<8	<1	<2	<10	<2	<1	<3	<1
17	<8	<1	<2	<10	<2	<1	<3	<1
18	<8	<1	<2	34	<2	<1	<3	<1
19	<8	<1	<2	11	<2	<1	<3	<1
Limit	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)



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

Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

parts	lead	cadmium
1	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
2	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
3	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
4	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
5	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
6	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
7	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
8	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
9	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
10	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
11	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
12	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
13	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
14	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
15	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
16	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
17	Not Detectable (< 20 mg/kg)	Not Detectable (< 20 mg/kg)
18	Not Detectable (< 20 mg/kg)	Not Detectable (< 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.		



Test Report

5. 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
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
6	Grade 5	Grade 5
7	Grade 5	Grade 5
8	Grade 5	Grade 5
9	Grade 5	Grade 5
10	Grade 5	Grade 5
11	Grade 5	Grade 5
12	Grade 5	Grade 5
13	Grade 5	Grade 5
14	Grade 5	Grade 5
15	Grade 5	Grade 5
16	Grade 5	Grade 5
17	Grade 5	Grade 5
18	Grade 5	Grade 5
Limit	Resistent [Not less 4-5 (grey scale)]	

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

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