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Fürth, 04.06.2009

TEST REPORT No. FUTY0911647E

Testing of a toy for ordered parameters

Arrival in lab: 26.05.2009; Period of analysis: 26.05. - 04.06.2009
Head of analytical department environmental analysis/ product testing: Kerstin Scharrer

General note: Copying this test report partially is permitted only in agreement with the contracted lab.The tests results refer only to the tested item. This report consists of 7 pages. Test methods marked with * are not listed in the amendment of our accreditation certificate. ** Suborder

Product description:	**Mini- magic bear**

Test results see next pages

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Product description: **Mini- magic bear**

Summary	Results
DIN EN 71-1 (safety of toys) – Mechanical and physical properties	***pass***
DIN EN 71-2 (safety of toys) – Flammability	***pass***
DIN EN 71-3 (safety of toys) – Migration of certain elements	***pass***
DIN EN 71-9 (safety of toys) – Organic chemical compounds- requirements	***pass***
Colour fastness to saliva and perspiration	***pass***
Cadmium + Lead	***pass***
Phthalates	***pass***

Test results

n.a. = not applicable
n.d. = not determinable
ms = mixed sample

Sample description:

Sample 1 (ms):	Mini-magic bear complete
Sample 2 (ms):	Plastic bear blue, red, yellow + hat red
Sample 3 (ms):	Plastic white + white, blow ring yellow + gasket + button red
Sample 4 (ms):	Textile cord red

1. Mechanical and physical properties according to EN 71-1

Test method: DIN EN 71-1: 2008

Clause	Requirements	Results
4	**General requirements**	
4.1	Material	***pass***
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	n.a.
4.8	Points and wires	n.a.
4.9	Protruding parts	n.a.
4.10	Parts moving against each other	n.a.

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Product description: **Mini- magic bear**

Mechanical and physical properties according to EN 71-1 continued

Clause	Requirements	Results
4.10.1	Folding and sliding mechanisms	n.a.
4.10.2	Driving mechanisms	n.a.
4.10.3	Hinges	n.a.
4.10.4	Springs	n.a.
4.11	Mouth-actuated toys	n.a.
4.12	Balloons	n.a.
4.13	Cords of toy kites and other flying toys	n.a.
4.14	Enclosures	n.a.
4.14.1	Toys which a child can enter	n.a.
4.14.2	Masks and helmets	n.a.
4.15	Toys intended to bear the mass of a child	n.a.
4.15.1	Toys propelled by the child or by other means	n.a.
4.15.2	Free-wheeling toy bicycles	n.a.
4.15.3	Rocking horses and similar toys	n.a.
4.15.4	Toys not propelled by a child	n.a.
4.15.5	Scooters	n.a.
4.16	Heavy immobile toys	n.a.
4.17	Projectiles	n.a.
4.17.1	General	n.a.
4.17.2	Projectiles toys without stored energy	n.a.
4.17.3	Projectiles toys with stored energy	n.a.
4.17.4	Bows and arrows	n.a.
4.18	Aquatic toys	n.a.
4.19	Percussion caps specifically designed for use in toys	n.a.
4.20	Acoustics	n.a.
4.21	Toys containing a heat source	n.a.
4.22	Small balls	n.a.
5	**Toys intended for children under 36 months**	
5.1	General requirements	n.a.
5.2	Filling Materials	n.a.
5.3	Adhesion of plastic sheeting	n.a.
5.4	Cords on toys	n.a.
5.5	Liquid filled toys	n.a.
5.6	Speed limitation of electrically driven toys	n.a.
5.7	Glass and porcelain	n.a.
5.8	Shape and size of certain toys	n.a.
5.9	Toys comprising monofilament fibres	n.a.
5.10	Small balls	n.a.
5.11	Playing figures	n.a.

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Product description: **Mini- magic bear**

Mechanical and physical properties according to EN 71-1 continued

Clause	Requirements	Results
5.12	Hemispherical toys	n.a.
5.13	Suction cups	n.a.
6	**Packaging**	n.a.
7	**Warnings and instructions for use**	
7.1	General	***pass***
7.2	Toys not intended for children under 36 months	***pass***
7.3	Latex balloons	n.a.
7.4	Aquatic toys	n.a.
7.5	Functional toys	n.a.
7.6	Functional sharp edges and points	n.a.
7.7	Projectiles	n.a.
7.8	Imitation protective masks and helmets	n.a.
7.9	Toy kites	n.a.
7.10	Roller skates, inline skates and toy skateboards	n.a.
7.11	Toys intended to be strung across a cradle, cot, or perambulator	n.a.
7.12	Liquid filled teethers	n.a.
7.13	Percussion caps specifically designed for use in toys	n.a.
7.14	Acoustics	n.a.
7.15	Toy bicycles	n.a.
7.16	Toys intended to bear the mass of a child	n.a.
7.17	Toys comprising monofilament fibres	n.a.
7.18	Scooters	n.a.

2. Flammability according to EN 71-2

Test method: DIN EN 71-2: 2008

Clause	Requirements	Results
4.1	General	***pass***
4.2	Toys worn on the head with capillary or alike textile materials	n.a.
4.3	Disguise costumes and other toys intended to be worn by the child	n.a.
4.4	Toys intended to entered by a child	n.a.
4.5	Filled soft toys with a capillary or alike textile surface	n.a.

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3. Migration of certain elements according to EN 71–3

Sampling and extraction according to DIN EN 71-3:2002
Test method: DIN EN ISO 11885 (E22) / AAS: DIN EN 1483 (E12)
Limit of quantification: 5 mg/kg each

Test results in mg/ kg

Parameter	Limit	Sample 2	Sample 3	Sample 4
Antimony	60	n.d.	n.d.	n.d.
Arsenic	25	n.d.	n.d.	n.d.
Barium	1000	n.d.	n.d.	n.d.
Cadmium	75	n.d.	n.d.	n.d.
Chromium	60	n.d.	n.d.	n.d.
Lead	90	n.d.	n.d.	n.d.
Mercury	60	n.d.	n.d.	n.d.
Selenium	500	n.d.	n.d.	n.d.

4. Organic chemical compounds in toys according to EN 71–9

4.1 Monomers according to EN 71-9 (Tab. 2D) in mg/l

Test method: EN 71-10/11: 2006

Parameter	Action Limit	Limit	Sample 2	Sample 3
Acrylamide	0.02	AL	n.d.	n.d.
Bisphenol A	0.01	0.1	n.d.	n.d.
Formaldehyde	2.5	2.5	n.d.	n.d.
Phenol	1.5	15	n.d.	n.d.
Styrene	0.75	0.75	n.d.	n.d.

4.2 Plasticizers (migration) according to EN 71-9 (Tab. 2I) in

Test method: EN 71-10/11: 2006
Limit of quantification: see table (Action Limit)

Parameter	Action Limit	Limit	Sample 2	Sample 3
Triphenyl phosphate	0.03	AL	n.d.	n.d.
Tri-*o*-cresyl phosphate	0.03	AL	n.d.	n.d.
Tri-*m*-cresyl phosphate	0.03	AL	n.d.	n.d.
Tri-*p*-cresyl phosphate	0.03	AL	n.d.	n.d.

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Product description: **Mini- magic bear**

Organic chemical compounds EN71-9 continued

4.2 Solvents (-migration) according to EN 71-9 (Tab. 2E) in mg/l

Test method: EN 71-10/11*: 2006

Parameter	LoQ	Limit	Sample 2	Sample 3
Trichloroethylene	0.002	0.02	n.d.	n.d.
Dichloromethane	0.01	0.06	n.d.	n.d.
2-Methoxyethyl acetate	0.05	5 (total)	n.d.	n.d.
2-Ethoxyethanol	0.05		n.d.	n.d.
2-Ethoxyethyl acetate	0.05		n.d.	n.d.
Bis(2-methoxyethyl) ether	0.05		n.d.	n.d.
2-Methoxypropyl acetate	0.05		n.d.	n.d.
Methanol	0.5	5	n.d.	n.d.
Nitrobenzene	0.02	0.02	n.d.	n.d.
Cyclohexanone	5	46	n.d.	n.d.
3,5,5-Trimethyl-2-cyclohexene-1-one	0.3	3	n.d.	n.d.
Toluene	0.02	2	n.d.	n.d.
Ethylbenzene	0.01	1	n.d.	n.d.
Xylene (all isomers)	0.02	2 (total)	n.d.	n.d.

Further requirements:

5. Colour fastness to saliva and perspiration

Test method: DIN V 53 160-1/2: 2002-10* mod.

	Sample 2	Sample 3
Colour fast	**X**	**X**
Not colour fast		

6. Total Cadmium content according to EU directive 91/338/EC and total Lead content according to ASTM F963 in mg/kg

Test method: micro wave digestion (HNO3) / ICP OES DIN EN ISO 11885 (E22)
Limit of quantification: 10 mg/kg

	Limit	Sample 2	Sample 3
Lead (Pb)	600[1]	**260**	n.d.
Cadmium (Cd)	100	n.d.	n.d.

[1] Limit value according to ASTM F963

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Product description: **Mini- magic bear**

6. Phthalates according to EU directive 2005/84/EC in %

Test method: HM-SAA PV_C_01.13.01
Limit of quantification: 0.01%

Parameter	Abbrev.	Limit	Sample 2	Sample 3
Dibutylphthalate	DBP	0.1% (sum)	n.d.	n.d.
Benzylbutylphthalate	BBP		n.d.	n.d.
Bis-(2-ethylhexyl) phthalate	DEHP		n.d.	n.d.
Di-n-octylphthalate	DNOP	0.1% (sum)	n.d.	n.d.
Di-isononylphthalate	DINP		n.d.	n.d.
Di-isodecylphthalate	DIDP		n.d.	n.d.

Conclusion

The presented product “Mini- magic bear” conforms to the requirements of the applied regulations regarding the testes parameters.

Intertek Consumer Goods GmbH
Warenprüfung • Umweltanalytik • Ingenieurleistung

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