

**Prüfbericht - Nr.:** SHG20091218061-1

Test Report No.:

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**Auftraggeber:** G.Gueldenpfennig Shanghai Office  
20th Floor, Suntime International Mansion, No. 450, Fushan Road, Pudong,  
Shanghai  
**Client:**

**Gegenstand der Prüfung:** Please refer to Page 2  
**Test Item:**

**Bezeichnung:** Style No.: 17702  
Buyer: MBW  
**Identification:** Export to: Europe

**Anlieferungszustand:** einwandfrei **Eingangsdatum:** Dec. 18, 2009  
**Delivery condition:** apparent good **Date of Receipt:**

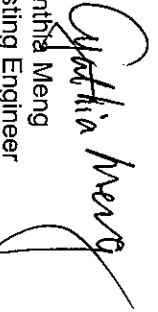

**Prüfort:** TÜV Rheinland (Shanghai) Co. Ltd. - Product and Environmental Analyses; 3/4F,  
**Testing Location:** Building No. 10 Lane 777, Guangzhong Road West Shanghai 200072, P.R.China

**Prüfgrundlage:**  
**Test Specification:**

1. EN71 - Part1: 2005+A9/2009 Mechanical and Physical Properties
2. EN71 - Part2: 2006+A1/2007 Flammability
3. EN71 - Part3: 1994+A1/2000+AC/2000+AC/2002 Migration of Certain Elements
4. EN71 - Part9: Organic chemical compounds
  - Table 2A - Flame retardants
  - Table 2D - Monomers(migration)
  - Table 2E - Solvent migration
  - Table 2I - Plasticizers (migration)
  - Formaldehyde
  - Color fastness to perspiration
  - Color fastness to saliva& perspiration

**Prüferegebnis:** Nach Art und Umfang der durchgeführten Prüfungen entspricht der  
**Test Result:** Prüfgegenstand oben genannter Prüfgrundlage.  
According to the kind and extend of tests performed the test item passed test specification.

geprüft/ tested by:  kontrolliert/ checked by:

Dec. 31, 2009	Cynthia Meng Testing Engineer		Dec. 31, 2009	Gale Gao Manager	
<b>Datum</b> Date	<b>Name</b> Name	<b>Unterschrift</b> Signature	<b>Datum</b> Date	<b>Name</b> Name	<b>Unterschrift</b> Signature

**Sonstiges/ Other Aspects:**

Test period: Dec. 21, 2009 – Dec. 24, 2009& Dec. 28, 2009 – Dec. 30, 2009

Attachment: Photographic documentation

**Abkürzungen:** ok / P = entspricht Prüfgrundlage Abbreviations: ok / P = passed  
fail / F = entspricht nicht Prüfgrundlage fail / F = failed  
n.a. / N = nicht anwendbar n.a. / N = not applicable

**Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszusweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.**

*This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

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Gegenstand der Prüfung / Test item :

Item No.	Test Item ( Product Description, Material, Colour )
1	Bear soft plush, cream
1-1	Cream plush
1-2	Dark brown thread
1-3	Brown thread of nose
1-4	Plastic eye, transparent
1-5	Cloth label
2	Bear soft plush, brown
2-1	Brown plush
3	Bear soft plush, beige
3-1	Beige plush

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**EN71 - Part1: Mechanical and Physical Properties**

Test method : EN71 - Part1 :2005+A9:2009 Mechanical and Physical Properties

Test item : 1 / 2 / 3

Age group for testing : All ages

**Test Results**

<b>4. General requirements</b>		
<b>4.1 Material</b>	Remarks:	P
<b>4.2 Assembly</b>		
<b>4.3 Flexible plastic sheeting</b>		
<b>4.4 Toy bags</b>		
<b>4.5 Glass</b>		
<b>4.6 Expanding materials</b>	Remarks:	n.a.
<b>4.7 Edges</b>	Remarks:	P
<b>4.8 Points and metallic wires</b>	Remarks:	P
<b>4.9 Protruding parts</b>		
<b>4.10 Parts moving against each other</b>		
<b>4.11 Mouth actuated toys</b>		
<b>4.12 Balloons</b>		
<b>4.13 Cords of toy kites and other flying toys</b>		
<b>4.14 Enclosures</b>		
<b>4.15 Toys intended to bear the mass of a child</b>		
<b>4.16 Heavy immobile toys</b>		
<b>4.17 Projectiles</b>		
<b>4.18 Aquatic toys</b>		
<b>4.19 Percussion caps specifically designed for use in toys and toys using percussion caps</b>		
<b>4.20 Acoustics</b>		
<b>4.21 Toys containing a non-electrical heat source</b>		
<b>4.22 Small balls</b>		
<b>4.23 Magnets</b>		
	Remarks:	n.a.

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**5. Toys intended for children under 36 months**

<b>5.1 General requirements</b>		Remarks:	P
<b>5.2 Filling materials</b>		Remarks:	P
<b>5.3 Plastic sheeting</b>			
<b>5.4 Cords on toys</b>			
<b>5.5 Liquid-filled toys</b>			
<b>5.6 Speed limitation of electrically driven toys</b>			
<b>5.7 Glass and porcelain</b>			
<b>5.8 Shape and size of certain toys</b>			
<b>5.9 Toys comprising monofilament fibres</b>			
<b>5.10 Small balls</b>			
<b>5.11 Play figures</b>			
<b>5.12 Hemispheric-shaped toys</b>			
<b>5.13 Suction cups</b>		Remarks:	n.a.

**6. Packaging**

Remarks:	n.a.
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**7. Warnings and instructions for use**

<b>7.1 General</b>		Remark:	P
		- toys must be accompanied by appropriate clearly legible warnings in order to reduce inherent risks in their use as described in the essential safety requirements in European Council Directive 88/378/EEC of 3 May 1988 concerning the safety of toys (published in the Official Journal of the EC No. L 187 of 16 July 1988).	
		- the manufacturer or his authorised representative or the importer into the community shall in a visible, easily legible and indelible form affix his name and/or trade name and/or mark and address on the toy or on its packaging together with the CE-marking as declaration of presumption of conformity with the essential safety requirements of the above directive.	

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7.2 Toys not intended for children under 36 months	
7.3 Latex balloons	
7.4 Aquatic toys	
7.5 Functional toys	
7.6 Hazardous sharp functional edges and points	
7.7 Projectiles	
7.8 Imitation protective masks and helmets	
7.9 Toy kites	
7.10 Roller skate, inline skates and toy skateboards	
7.11 Toys intended to be strung across a cradle, cot, or perambulator	
7.12 Liquid-filled teethers	
7.13 Percussion caps specifically designed for use in toys	
7.14 Acoustics	
7.15 Toys bicycles	
7.16 Toys intended to bear the mass of a child	
7.17 Toys comprising monofilament fibres	
7.18 Toys scooters	
7.19 Rocking horses and similar toys	
7.20 Magnetic/electrical experimental sets	
Remarks:	n.a.

**Main test instruments used for this method:**

Instrument	Internal No.
Small part cylinder D	TOY074
Pull-push scale	TOY006
Torque tester	TOY022
Sharp point tester	TOY019
Sharp edge tester	TOY007

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EN71 – Part 2: 2006+A1:2007 Flammability

Test method : EN71 – Part 2: 2006+A1:2007 Flammability

Test item : 1/ 2/ 3

**Test Results**

4.1 General	Remarks:	P
	1) The following materials shall not be used in the manufacture of toys: <ul style="list-style-type: none"> <li>a. Cellulose nitrate and materials with the behaviour of celluloid in fire;</li> <li>b. Materials with a pile surface that produces surface flash on the approach of a flame;</li> <li>c. Highly flammable solids.</li> </ul> 2) Toys shall not contain flammable gases, highly flammable liquids, flammable liquids, flammable gels.	
4.2 Toys to be worn on the head	Remarks:	n.a.
4.3 Toy disguise costumes and toys intended to be worn by a child	Remarks:	n.a.
4.4 Toys intended to be entered by a child	Remarks:	n.a.
4.5 Filled soft toys (animals and dolls, etc) with a piled or textile surface	Remarks:	P

**Main test instruments used for this method:**

Instrument	Internal No.
Flammability tester-EN71	TOY024
Tape-2m B	TOY043

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**EN71 - Part3: Migration of Certain Elements**

Test method : Soluble toxic element contents are determined by Inductively Coupled Plasma – Optical Emission Spectrometry (ICP-OES).

EN 71 - 3, Toys safety, 1994 + A1: 2000 + AC: 2000 + AC: 2002

Limit : EN 71 - 3, See below

**8.2 For Polymeric and similar materials, including laminates, whether textile-reinforced textiles or not, but excluding other textiles**

Requirement (mg/kg) Test item(s)	Sol. Sb	Sol. As	Sol. Ba	Sol. Cd	Sol. Cr	Sol. Pb	Sol. Hg	Sol. Se	Conclusion
	60	25	1000	75	60	90	60	500	
1-4	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	Pass

**8.4 For Textiles, whether natural or synthetic**

Requirement (mg/kg) Test item(s)	Sol. Sb	Sol. As	Sol. Ba	Sol. Cd	Sol. Cr	Sol. Pb	Sol. Hg	Sol. Se	Conclusion
	60	25	1000	75	60	90	60	500	
1-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	Pass
1-2@	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	Pass
1-3	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	Pass
1-5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	Pass
2-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	Pass
3-1	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	Pass

**Remark:**

Detection limit : 2.5 mg/kg for each of the 8 soluble toxic elements

Sol. : Soluble

mg/kg : milligram per kilogram

< : Less than

@ : The test result was calculated as if 100 mg of test portion had been used and the sample weight of test portion is less than 100 mg

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
ICP-OES	PerkinElmer	5300DV

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**Flame retardants, Table 2A of EN 71- 9, Toys Safety, organic chemical compounds requirements**

Test method : Acetonitrile extraction, determination by liquid chromatography with diode-array and mass spectrometry detection(LC/DAD/MS), EN 71 part 11:2005(E)

Limit : Action limit, 50 mg/kg, EN 71-9:2005(E)

Parameter	CAS No.	Unit	Item_1-1	Item_1-5	Item_2-1	Item_3-1
Tri-o-cresyl phosphate	78-30-8	mg/kg	n.d.	n.d.	n.d.	n.d.
Tris(2-chloroethyl)phosphate	115-96-8	mg/kg	n.d.	n.d.	n.d.	n.d.
Conclusion	-	-	Pass	Pass	Pass	Pass

**Remark:**

1. "mg/kg" denotes milligram per kilogram
2. "n.d." denotes not detected, less than 20 mg/kg

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
HPLC/DAD/MS	Agilent Technologies	HPLC(1100) SL

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**EN 71-9 table 2D: Monomers(migration)**

Test method : Solvent extraction and determination by Gas Chromatography-Mass Selective Detection (GC-MSD)

Requirement : EN71-9/10/11,

 Safety of toys - Part 9: Organic chemical compounds ,  
 Table 2D: Monomers(migration)

Test Item : 1-4

Parameter	CAS No.	Limit of detection (mg/l)	Result in sample
Monomers (migration)			
Acrylamide	79-06-1	0.02	n.d.
Bisphenol-A	80-05-7	0.1	n.d.
Formaldehyde	50-00-0	0.1	n.d.
Phenol	108-95-2	5.0	n.d.
Styrene	100-42-5	0.1	n.d.
Conclusion	-	-	Pass

Requirements according to EN 71-9 Table 2 D Monomers(migration)

Table 2 D Monomers(migration)	
Component	Limit according to EN 71-9
Acrylamide	0.02mg/l (Action limit)
Bisphenol-A	0.1 mg/l
Formaldehyde	2.5 mg/l
Phenol	15 mg/l
Styrene	0.75 mg/l

Remark:

1. "mg/l" denotes milligram per liter

2. "n.d." denotes not detected, less than Limit of detection

Main test instruments used for this method:

Instrument	Manufacturer	Model / Type
GC-MS	Agilent Technologies	GC (6890)-MS (5975)

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**EN 71-9 Table 2E: Solvent migration**

Test method : Water extraction and determination by Gas Chromatography-Mass Selective Detection (GC-MSD) with HS auto sampler.

 Requirement : EN71-9/10/11,  
 Safety of toys - Part 9: Organic chemical compounds,  
 Table 2E: Solvent migration; EN 71-9

Test result:

Test item description: 1-4

Substances	CAS No.	Unit	Limit of Detection	Result in sample
Trichloroethene (Trichlorethylene)	79-01-6	mg/l	0.02	n.d.
Dichloromethane	75-09-2	mg/l	0.02	n.d.
2-Methoxyethyl acetate	110-49-6	mg/l	0.1	n.d.
2-Ethoxyethanol	110-80-5	mg/l	0.1	n.d.
2-Ethoxyethyl acetate	111-15-9	mg/l	0.1	n.d.
2-Methoxypropyl acetate	70657-70-4	mg/l	0.1	n.d.
Bis(2-methoxyethyl) Ether	111-96-6	mg/l	0.1	n.d.
Methanol	67-56-1	mg/l	0.5	n.d.
Nitrobenzene	98-95-3	mg/l	0.02	n.d.
Cyclohexanone	108-94-1	mg/l	0.1	n.d.
Isophorone	78-59-1	mg/l	0.1	n.d.
Toluene	108-88-3	mg/l	0.1	n.d.
Ethyl-benzene	100-41-4	mg/l	0.1	n.d.
Xylene, total	various	mg/l	0.1	n.d.
<b>Conclusion</b>				<b>Pass</b>

Requirements according to EN 71-9 Table 2 E: Solvent migration

Substances	Limit according to EN71-9
Trichloroethene (Trichlorethylene)	0.02 mg/l (Action Limit)
Dichloromethane	0.06 mg/l
2-Methoxyethyl acetate	
2-Ethoxyethanol	
2-Ethoxyethyl acetate	0.5mg/l (total)
2-Methoxypropyl acetate	
Bis(2-methoxyethyl) Ether	
Methanol	5 mg/l
Nitrobenzene	0.02 mg/l (Action Limit)
Cyclohexanone	46 mg/l
Isophorone (3,5,5-Trimethyl-2-cyclohexen-1-one)	3 mg/l
Toluene	2 mg/l
Ethyl-benzene	1mg/l
Xylene, total	2 mg/l

Remark:

1. "mg/l" denotes milligram per liter
2. "n.d." denotes not detected, less than limit of detection.

Instrument	Manufacturer	Model / Type
HS-GC-MS	Agilent Technologies	GC (6890) - MS(5875)

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**EN 71-9 table 2I: Plasticizers(migration)**

Test method : Solvent extraction and determination by Gas Chromatography-Mass Selective Detection (GC-MSD)

Requirement : Action limit, 0.03 mg/l, EN 71-9:2005

Test Item: 1-4

Parameter	CAS No.	Unit	Result in sample
Triphenyl phosphate	115-86-6	mg/l	n.d.
Tri-o-cresyl phosphate	78-30-8	mg/l	n.d.
Tri-n-cresyl phosphate	563-04-2	mg/l	n.d.
Tri-p-cresyl phosphate	78-32-0	mg/l	n.d.
<b>Conclusion</b>			<b>Pass</b>

Remark:

1. "mg/kg" denotes milligram per kilogram
2. "n.d." denotes not detected, less than 0.03 mg/l

Requirements according to EN 71-9 Table 2 I: Plasticizers (migration)

Substances	Limit	Action Limit
Triphenyl phosphate	Action Limit	0.03 mg/l
Tri-o-cresyl phosphate	Action Limit	0.03 mg/l
Tri-n-cresyl phosphate	Action Limit	0.03 mg/l
Tri-p-cresyl phosphate	Action Limit	0.03 mg/l

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
GC-MS	Agilent Technologies	GC (8890)-MS (5973)

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**EN 71-9 Formaldehyde**

Test method : For textile components of toys, tested in accordance with EN ISO 14184-1.

For paper components of toys, tested in accordance with EN 645 and EN 1541.

For resin-bonded wood components of toys, tested accordance with EN 717-3

Requirement : EN 71-9/10/11

Safety of toys - Part 9 clause 4.3: Formaldehyde

Test Result

Tested Item: 1-1				
Material	Parameter	Unit	Result	Conclusion
Textile	formaldehyde	mg/kg	ND	Pass

Tested Item: 1-3				
Material	Parameter	Unit	Result	Conclusion
Textile	formaldehyde	mg/kg	ND	Pass

Tested Item: 1-5				
Material	Parameter	Unit	Result	Conclusion
Textile	formaldehyde	mg/kg	ND	Pass

Tested Item: 2-1				
Material	Parameter	Unit	Result	Conclusion
Textile	formaldehyde	mg/kg	ND	Pass

Tested Item: 3-1				
Material	Parameter	Unit	Result	Conclusion
Textile	formaldehyde	mg/kg	ND	Pass

Requirements according to EN71-9 clause 4.3: Formaldehyde

Material	Limit
Textile components of toys	30 mg/kg
Paper components of toys	30 mg/kg
Resin-bonded wood components of toys	80 mg/kg

Remark:

ND: not detected, less than 10 mg/kg

mg/kg: milligram per kilogram

Main test instruments used for this method:

Instrument	Manufactory	Model / Type
UV-VIS	PerkinElmer	Lambda 35

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**Colour Fastness to Perspiration**

Test method : (ISO 105-E04:2008, DW multifibre adjacent fabric)

Test items(s)	Requirements [grey scale ratings]	1-1		1-3		1-5	
		alkaline	acid	alkaline	acid	alkaline	acid
Colour change	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Staining							
Acetate	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Cotton	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Nylon	3-4	4-5	4-5	4	4	4-5	4-5
Polyester	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Acrylic	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Wool	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Conclusion		Pass		Pass		Pass	

Test items(s)	Requirements [grey scale ratings]	2-1		3-1	
		alkaline	acid	alkaline	acid
Colour change	3-4	4-5	4-5	4-5	4-5
Staining					
Acetate	3-4	4-5	4-5	4-5	4-5
Cotton	3-4	4-5	4-5	4-5	4-5
Nylon	3-4	4	4	4-5	4-5
Polyester	3-4	4-5	4-5	4-5	4-5
Acrylic	3-4	4-5	4-5	4-5	4-5
Wool	3-4	4-5	4-5	4-5	4-5
Conclusion		Pass		Pass	

Notes: Scale Rating From No. 5 (No Colour Change/Staining) to No. 1 (Very Severe Colour Change/Staining)

**Colour fastness to saliva & perspiration**

Test method : DIN 53160-1/-2:2002

Test items(s)	Requirement	1-1		1-3		1-5		2-1		3-1	
		alkaline	acid	alkaline	acid	alkaline	acid	alkaline	acid	alkaline	acid
Saliva DIN 53160-1	3-4	5	5	5	5	5	5	5	5	5	5
Perspiration DIN 53160-2	3-4	5	5	5	5	5	5	5	5	5	5
Conclusion		Pass		Pass		Pass		Pass		Pass	

Notes: Scale Rating From No. 5 (No Colour Staining) to No. 1 (Very Severe Colour Staining)

END

Attached please find photographic documentation of submitted specimen(s).