



**BUREAU
VERITAS**

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Sample Description:	PARTS OF BEAR	Sample Size:	3
Vendor:	SHANGHAI GUELDPFENNIG/MBW	Style No(s):	N/A
Manufacturer:		SKN/SKU No.:	N/A
Buyer:	N/A	PO No.:	17223
Labeled Age Grade:	NOT PRESENT	Ref #:	N/A
Appropriate Age Grade:	NOT REQUESTED	Country of Origin:	CHINA
Client Specified Age Grade:	ALL AGES	Assortment No.:	N/A
Grade:			
Tested Age Grade:	ALL AGES		
UPC Code:	N/A		

EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The colorfastness to perspiration (first-action method for colourants and primary aromatic amines) requirements of the European Standard, "Safety of Toys: Organic Chemical Compounds - Requirement", EN 71: Part 9: 2005, and Amendment A1: 2007, when tested in accordance with the method EN 71: Part 10: 2005 Annex A.
- The flame retardants requirements of the European Standard, "Safety of Toys: Organic Chemical Compounds - Requirement", EN 71: Part 9: 2005, and Amendment A1: 2007.
- The free and hydrolyzed formaldehyde content requirement in accessible textile components of the European Standard, "Safety of Toys: Organic Chemical Compounds - Requirement", EN 71: Part 9: 2005, and Amendment A1: 2007, when tested according to BS EN ISO 14184-1.



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RESULTS:

The sample(s) MEET the following requirement(s):

- The monomers (migration) requirements of the European Standard, "Safety of Toys: Organic Chemical Compounds - Requirement", EN 71: Part 9: 2005, and Amendment A1: 2007.
- The plasticisers (migration) requirements of the European Standard, "Safety of Toys: Organic Chemical Compounds - Requirement", EN 71: Part 9: 2005, and Amendment A1: 2007.
- The solvent migration requirements of the European Standard, "Safety of toys: Organic Chemical Compounds-Requirement", EN 71-Part 9:2005, and Amendment A1:2007.

BVCPS (shanghai) contact information for this report

Technical Questions:

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**BUREAU VERITAS
CONSUMER PRODUCTS SERVICES (SHANGHAI)**

JOY SHI
LAB MANAGER (TOYS AND JUVENILE PRODUCTS DIVISION)



RESULTS:

SOLVENTS MIGRATION CONTENT (EN 71: Part 9: 2005 and Amendment A1: 2007)

Test method: EN 71: Part 10: 2005 and EN 71: Part 11: 2005

Sample Identity	Test Component	Location	Style
A.	black plastic		
B.	dull white plastic		

Test Parameter	A.	B.	Limit
Trichloroethylene	LT 20	LT 20	20 µg/L
Dichloromethane	LT 0.06	LT 0.06	0.06 mg/L
Sum of 2-Methoxyethyl acetate, 2-Ethoxyethanol, 2-Ethoxyethyl acetate & Bis(2-methoxyethyl) ether 2-Methoxypropyl acetate	LT 0.5	LT 0.5	0.5 mg/L
Methanol	LT 5	LT 5	5 mg/L
Nitrobenzene	LT 0.02	LT 0.02	0.02 mg/L
Cyclohexanone	LT 46	LT 46	46 mg/L
3,5,5-Trimethyl-2-cyclohexene-1-one	LT 3	LT 3	3 mg/L
Toluene	LT 2	LT 2	2 mg/L
Ethylbenzene	LT 1	LT 1	1 mg/L
Xylene (all isomers)	LT 2	LT 2	2 mg/L
Conclusion	Pass	Pass	

mg/L = milligram per liter
µg/L = microgram per liter

LT = Less than



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RESULTS:

MONOMERS (MIGRATION) CONTENT (EN 71: Part 9: 2005 and Amendment A1: 2007)

Test method: EN 71: Part 10: 2005 and EN 71: Part 11: 2005

Sample Identity	Test Component	Location	Style
A.	black plastic		
B.	dull white plastic		

Test Parameter	A.	B.				Limit (mg/L)
Acrylamide	LT 0.02	LT 0.02				0.02
Bisphenol A	LT 0.1	LT 0.1				0.1
Phenol	LT 15	LT 15				15
Styrene	LT 0.75	LT 0.75				0.75
Formaldehyde	LT 2.5	LT 2.5				2.5
Conclusion	Pass	Pass				

mg/kg = milligram per kilogram

LT = Less than

PLASTICIZERS (MIGRATION) CONTENT (EN 71: Part 9: 2005 and Amendment A1: 2007)

Test method: EN 71: Part 10: 2005 and EN 71: Part 11: 2005

Sample Identity	Test Component	Location	Style
A.	black plastic		
B.	dull white plastic		

Test Parameter	A.	B.				Limit (mg/L)
Triphenyl phosphate	LT 0.03	LT 0.03				0.03
Tri-o-cresyl phosphate	LT 0.03	LT 0.03				0.03
Tri-m-cresyl phosphate	LT 0.03	LT 0.03				0.03
Tri-p-cresyl phosphate	LT 0.03	LT 0.03				0.03
Conclusion	Pass	Pass				

mg/kg = milligram per kilogram

LT = Less than



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RESULTS:

FLAME RETARDANTS CONTENT (EN 71: Part 9: 2005 and Amendment A1: 2007)

Test method: EN 71: Part 10: 2005 and EN 71: Part 11: 2005

Sample Identity	Test Component	Location	Style
A.	Brown plush	/	/
B.	Black printed white fabric	Sewin label	/
C.	Dark brown thread	/	/
D.	White thread	/	/

Test Parameter	A.	B.	C.	D.	Limit (mg/kg) *
Tri-o-cresyl phosphate	LT 50	LT 50	LT 50	LT 50	50
Tris(2-chloroethyl) phosphate	LT 50	LT 50	LT 50	LT 50	50
Conclusion	Pass	Pass	Pass	Pass	

mg/kg = milligram per kilogram

LT = Less than

* = The limits listed refer to "Action limit" of the applicable method as specified in EN 71: Part 11: 2005.

FREE AND HYDROLYZED FORMALDEHYDE CONTENT IN ACCESSIBLE TEXTILES COMPONENTS (EN 71: Part 9: 2005 and Amendment A1: 2007)

Test Method: BS EN ISO 14184-1: 1999, Textiles - Determination of formaldehyde - Part 1: Free and hydrolyzed formaldehyde (water extraction method).

Parameter:				Formaldehyde	
Maximum allowable limit:				30 (mg/kg (ppm))	
Test Component			Result (mg/kg (ppm))	Conclusion	
	Color/Component	Location			Style No.
A.	brown plush			LT 20	Pass
B.	black printed white fabric	sewn label		LT 20	Pass
C.	dark brown thread			LT 20	Pass
D.	white thread			LT 20	Pass

LT = Less than

mg/kg (ppm) = milligrams per kilogram (ppm = parts per million)



RESULTS:

COLOURFASTNESS TO PERSPIRATION (First-action method for colourants and primary aromatic amines), EN 71: Part 9: 2005 and Amendment A1: 2007)

Test method: EN 71: Part 10: 2005 Annex A

Results reported by grade

Sample ID	Test Component	Location	Style
A.	brown plush		
B.	black printed white fabric	sewn label	
C.	dark brown thread		

Alkaline Solution

Sample ID	Colour change	Colour staining						Conclusion
		Acetate	Cotton	Nylon	Polyester	Acrylic	Wool	
Required Limit	-	3-4						
A.	-	4-5	4-5	4-5	4-5	4-5	4-5	Pass
B.	-	5	5	5	5	5	5	Pass
C.	-	4-5	4-5	4	4-5	4-5	4-5	Pass

Acid Solution

Sample ID	Colour change	Colour staining						Conclusion
		Acetate	Cotton	Nylon	Polyester	Acrylic	Wool	
Required Limit	-	3-4						
A.	-	4.5	4.5	4.5	4.5	4.5	4.5	Pass
B.	-	5	5	5	5	5	5	Pass
C.	-	4.5	4.5	4	4.5	4.5	4.5	Pass

Note: According to EN 71 Part 10 Section 8.1.2, if a textile sample is found not to be colourfast (less than grade 3-4 of color stain) when tested in accordance with the test procedure described in EN 71: Part 10: 2005 Annex A (based on EN ISO 105-E04), then it shall be tested by the final-action method for colourants and primary aromatic amines.

Explanation of Colorfastness Results:

- Grade 5 Negligible or no change or staining
- Grade 4 Slightly changed or stained
- Grade 3 Noticeably changed or stained
- Grade 2 Considerably changed or stained
- Grade 1 Much changed or heavily stained



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RESULTS:

