



Number : JKTF11000358
Date : 30 June 2011

CONCLUSION :

<u>TESTED SAMPLE</u> <u>SUBMITTED SAMPLE</u>	<u>STANDARD</u>	<u>RESULT</u>
	EN71 PART 1 : 2011 MECHANICAL AND PHYSICAL PROPERTIES EXCLUDING CLAUSE 7	PASS
	EN71 PART 2 : 2006 + A1 : 2007	PASS
	EN71 PART 3 : 1994 WITH THE INCORPORATION OF AMENDMENT A1:2000 AND AC:2002	PASS
	EN71 PART 9 : 2005 AND AMENDMENT A1 2007 ON COLOURANTS REQUIREMENT	PASS
	EN71 PART 9 : 2005 AND AMENDMENT A1 2007 ON FORMALDEHYDE REQUIREMENT FOR PAPER COMPONENTS	PASS
	EN71 PART 9 : 2005 AND AMENDMENT A1 2007 ON PRIMARY AROMATIC AMINES REQUIREMENT	PASS
	U.S ASTM F963-08 FOR TOXIC ELEMENTS TEST	PASS



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I. **MECHANICAL AND PHYSICAL TEST**

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71-1: 2011.

APPLICANT'S SPECIFIED AGE GROUP FOR TESTING : FOR AGES 3 YEARS UP

<u>CLAUSE</u>	<u>TESTING ITEMS</u>	<u>ASSESSMENT</u>
4*	GENERAL REQUIREMENTS	P
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	NA
6	PACKAGING	NA
7	WARNINGS AND INSTRUCTION FOR USE	#

REMARK : P = PASS

NA = NOT APPLICABLE

* = THE FOLLOWING SUBCLAUSES OF CLAUSE 4 OF THE STANDARD WERE APPLICABLE:

1) 4.1 MATERIALS - CLEANLINESS VISUAL EXAMINATION.

= ACCORDING TO DIRECTIVE 2009/48/EC, THE MANUFACTURER'S AND IMPORTER'S NAME, REGISTERED TRADE NAME OR REGISTERED TRADE MARK AND THE ADDRESS SHALL BE INDICATED ON THE TOY. IN ADDITION, MANUFACTURERS SHALL ENSURE THAT THEIR TOYS BEAR A TYPE, BATCH, SERIAL OR MODEL NUMBER OR OTHER ELEMENT ALLOWING THEIR IDENTIFICATION.

II. **FLAMMABILITY TEST**

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2: 2006 + A1:2007.

<u>CLAUSE</u>	<u>TESTING ITEM</u>	<u>ASSESSMENT</u>
4.1	GENERAL	P
4.2	TOYS TO BE WORN ON THE HEAD WHICH INCLUDE BEARDS, MOUSTACHES, WIGS, ETC MADE FROM HAIR, PILE OR MATERIAL WITH SIMILAR FEATURES, MOLDED AND FABRIC MASKS, AND FLOWING MATERIAL ATTACHED TO HATS, MASKS ETC.	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 (ANIMALS AND DOLLS, ETC) WITH A PILED OR TEXTILE SURFACE.	NA

REMARK : P = PASS

NA = NOT APPLICABLE

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III. TOXIC ELEMENTS ANALYSIS

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 3 : 1994 WITH THE INCORPORATION OF AMENDMENT A1:2000 AND AC:2002, TOXIC ELEMENTS MIGRATION WERE DETERMINED BY INDUCTIVELY COUPLE PLASMA OPTICAL EMISSION SPECTOMETRY.

		<u>RESULT (mg/kg)</u>	<u>LIMIT (mg/kg)</u>
SOL. BARIUM	(Ba)	<5	1000
SOL. LEAD	(Pb)	<5	90
SOL. CADMIUM	(Cd)	<5	75
SOL. ANTIMONY	(Sb)	<5	60
SOL. SELENIUM	(Se)	<5	500
SOL. CHROMIUM	(Cr)	<5	60
SOL. MERCURY	(Hg)	<5	60
SOL. ARSENIC	(As)	<3	25

REMARK : < = LESS THAN
 SOL. = SOLUBLE
 Mg/kg = MILLIGRAM PER KILOGRAM BASED ON WEIGHT OF SAMPLE



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IV. **COLOURANTS**
AS PER EN71 PART 10 & 11

<u>COMPOUND</u>	<u>RESULT (mg/kg)</u>	<u>LIMIT (mg/kg)</u>
DISPERSE BLUE 1	<10	10 (MAX)
DISPERSE BLUE 3	<10	10 (MAX)
DISPERSE BLUE 106	<10	10 (MAX)
DISPERSE BLUE 124	<10	10 (MAX)
DISPERSE YELLOW 3	<10	10 (MAX)
DISPERSE ORANGE 3	<10	10 (MAX)
DISPERSE ORANGE 37/76	<10	10 (MAX)
DISPERSE RED 1	<10	10 (MAX)
SOLVENT YELLOW 1	<10	10 (MAX)
SOLVENT YELLOW 2	<10	10 (MAX)
SOLVENT YELLOW 3	<10	10 (MAX)
BASIC RED 9	<10	10 (MAX)
BASIC VIOLENT 1	<10	10 (MAX)
BASIC VIOLENT 3	<10	10 (MAX)
ACID RED 26	<10	10 (MAX)
ACID VIOLET 49	<10	10 (MAX)

REMARK : < = LESS THAN

V. **FORMALDEHYDE CONTENT**
AS PER EN 645 AND EN 1541

<u>RESULT (mg/kg)</u>	<u>LIMIT (mg/kg)</u>
6	30 (MAX)

REMARK : THE TESTING SCOPE OF THE STANDARD WAS NOT APPLICABLE TO THE SUBMITTED SAMPLE, HOWEVER, THE TEST RESULT DID NOT EXCEED THE LIMIT OF THE STANDARD.

Mg/kg = MILLIGRAM PER KILOGRAM



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VI. PRIMARY AROMATIC AMINES
AS PER EN71 PART 10 & 11

<u>COMPOUND</u>	<u>RESULT (mg/kg)</u>	<u>LIMIT (mg/kg)</u>
BENZIDINE	<5	5 (MAX)
2-NAPHTHYLAMINE	<5	5 (MAX)
4-CHLOROANILINE	<5	5 (MAX)
3,3'-DICHLOROBENZIDINE	<5	5 (MAX)
3,3'-DIMETHOXYBENZIDINE	<5	5 (MAX)
3,3'-DIMETHYLBENZIDINE	<5	5 (MAX)
0-TOLUIDINE	<5	5 (MAX)
2-METHOXYANILINE (0-ANISIDINE)	<5	5 (MAX)
ANILINE		

REMARK : < = LESS THAN

VII. TOXIC ELEMENT ANALYSIS

WITH REFERENCE TO SECTION 4.3.5 OF THE ASTM STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY F963-08, ACID DIGESTION AND EXTRACTION METHODS WERE USED AND TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTOMETRY.

	<u>RESULT IN ppm</u>	<u>LIMIT ppm</u>
TOTAL LEAD (Pb)	<10	600
SOL. BARIUM (Ba)	< 5	1000
SOL. LEAD (Pb)	< 5	90
SOL. CADMIUM (Cd)	< 5	75
SOL. ANTIMONY (Sb)	< 5	60
SOL. SELENIUM (Se)	< 5	500
SOL. CHROMIUM (Cr)	< 5	60
SOL. MERCURY (Hg)	< 5	60
SOL. ARSENIC (As)	<2,5	25

REMARK : THE TESTING SCOPE OF THE STANDARD WAS NOT APPLICABLE TO THE SUBMITTED SAMPLE, HOWEVER, THE TEST RESULT DID NOT EXCEED THE LIMIT OF THE STANDARD.

< = LESS THAN
ppm = PARTS PER MILLION
SOL. = SOLUBLE

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