



TEST REPORT

NUMBER: SZHH00268303

APPLICANT: DONGGUAN ZENSEE PRINTING LIMITED
DONGSHAN INDUSTRIAL DISTRICT,
AOBEIWEI, ZHANGMUTOU,
DONGGUAN, GUANG DONG
CHINA 523619

DATE: Jun 27, 2008

ATTN: CHEN YAN PING

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE 港日 1751HP-K 环保大豆四色红油 (RED PAINT) .

- DOC NO. : DSP001389.
- REFERENCE NO. : CM-10-HP-K-M.
- P. O. NO. : DPO173291 008061900199.
- VENDOR : G035 博罗县园洲港日实业发展有限公司.
- BUYER : 东莞隽思印刷有限公司.



TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
SHENZHEN LTD.

BEN N.L. LIN
GENERAL MANAGER



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CONCLUSION:

<u>TESTED SAMPLES</u> SUBMITTED SAMPLE	<u>STANDARD</u>	<u>RESULT</u>
	U.S. ASTM F963-07 ^{e1} TOXIC ELEMENTS TEST	PASS
	EN71 PART 3 : 1994 AND AMENDMENT A1 : 2000 AND AC : 2002	PASS
	94/62/EEC AND AMENDMENT 2004/12/EC DIRECTIVE (PACKAGING WASTE) FOR TOXIC ELEMENTS TEST	PASS
	MODEL TOXICS IN PACKAGING LEGISLATION (PACKAGING MATERIALS) FOR TOXIC ELEMENTS TEST	PASS
	HASBRO SAFETY AND RELIABILITY SPECIFICATION SRS-012 (REV.O) FOR HEAVY METALS TEST	PASS

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TESTS CONDUCTED

1 TOXIC ELEMENTS ANALYSIS

AS PER SECTION 4.3.5 OF THE ASTM STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY F963-07^{e1}, ACID DIGESTION AND EXTRACTION METHODS WERE USED AND TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

	<u>RESULT IN ppm</u>	<u>LIMIT</u>
		<u>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

SOL. = SOLUBLE

< = LESS THAN

ppm = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

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2 TOXIC ELEMENTS ANALYSIS

AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 3 : 1994 AND AMENDMENT A1 : 2000 AND AC: 2002, ACID EXTRACTION METHOD WAS USED AND TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

	<u>RESULT IN 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)	<2.5	25

SOL. = SOLUBLE

< = LESS THAN

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT OF SAMPLE

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3 TOXIC ELEMENTS ANALYSIS

AS PER 94/62/EEC AND AMENDMENT 2004/12/EC DIRECTIVE ON PACKAGING AND PACKAGING WASTE, ACID DIGESTION METHOD WAS USED AND TOTAL TOXIC ELEMENTS AND HEXAVALENT CHROMIUM CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY, AND BY UV-VISIBLE SPECTROPHOTOMETRY, RESPECTIVELY.

	<u>RESULT IN ppm</u>	<u>LIMIT</u>
LEAD (Pb)	<5	--
CADMIUM (Cd)	<5	--
MERCURY (Hg)	<5	--
CHROMIUM VI (Cr (VI))	<1	--
TOTAL	<16	100

ppm = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE
< = LESS THAN

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4 TOXIC ELEMENTS ANALYSIS

AS PER MODEL TOXICS IN PACKAGING LEGISLATION REQUIREMENT OF PACKAGING AND PACKAGING COMPONENTS, ACID DIGESTION METHOD WAS USED AND TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY, AND HEXAVALENT CHROMIUM CONTENT WAS DETERMINED BY UV-VISIBLE SPECTROPHOTOMETRY.

	<u>RESULT IN ppm</u>	<u>LIMIT (ppm)</u>
LEAD (Pb)	<5	--
CADMIUM (Cd)	<5	--
MERCURY (Hg)	<5	--
CHROMIUM VI (Cr (VI))	<1	--
TOTAL	<16	100

ppm = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE
< = LESS THAN

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5 HEAVY METALS ANALYSIS

AS PER HASBRO INC. CORPORATE QUALITY ASSURANCE SAFETY AND RELIABILITY SPECIFICATION SRS-012 (REVISION 0), ACID DIGESTION AND ACID EXTRACTION METHODS WERE USED, AND HEAVY METALS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLED ARGON PLASMA SPECTROMETRY.

	<u>RESULT IN ppm</u>	<u>LIMIT</u> <u>ppm</u>
TOT. LEAD (Pb)	<5	60
TOT. CADMIUM (Cd)	<5	75
TOT. CHROMIUM (Cr)	<5	--
TOT. MERCURY (Hg)	<5	10
SUM OF TOT. Pb, Cd, Cr & Hg	<20	--
SOL. BARIUM (Ba)	<5	350
SOL. LEAD (Pb)	<5	60
SOL. CADMIUM (Cd)	<5	50
SOL. ANTIMONY (Sb)	<5	25
SOL. SELENIUM (Se)	<5	200
SOL. CHROMIUM (Cr)	<5	40
SOL. MERCURY (Hg)	<5	10
SOL. ARSENIC (As)	<2.5	10

	<u>RESULT IN ppm</u>	<u>LIMIT</u> <u>ppm</u>
TOT. LEAD (Pb)	<5	60
TOT. CADMIUM (Cd)	<5	75
TOT. MERCURY (Hg)	<5	10
SOL. BARIUM (Ba)	<5	350
SOL. LEAD (Pb)	<5	60
SOL. CADMIUM (Cd)	<5	50
SOL. ANTIMONY (Sb)	<5	25
SOL. SELENIUM (Se)	<5	200
SOL. CHROMIUM (Cr)	<5	40
SOL. MERCURY (Hg)	<5	10
SOL. ARSENIC (As)	<2.5	10

ppm = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE
SOL. = SOLUBLE
TOT. = TOTAL
< = LESS THAN

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END OF REPORT