

Test Report No.: Q00010616d 001

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Client: JOHN N. HANSEN CO., INC.  
369 Adrian Road, Millbrae, CA 94030-3104, U.S.A.

Test item: Toy

Identification/ Model No(s): PZ100 Brain Twist

Sample Receiving date: 09 Nov. 2009;  
24 Nov. 2009

Delivery condition: Apparent good, Samples tested as received

Test specification:

Test result:

1. ASTM F963-08: Mechanical and physical	PASS
2. ASTM F963-08: Flammability on solid and soft toys	PASS
3. ASTM F963-08 and CPSIA Sect 101: Total lead content in paint and similar surface-coating materials	PASS
4. CPSIA Sect 101: Total lead content in accessible substrate materials	PASS
5. ASTM F963-08: Soluble heavy metal	PASS
6. CPSIA Sect 108: Phthalates	PASS
7. CPSIA Sect 103: Tracking label	PASS

Other Information:

Country of Origin: China

Country of Destination: U.S.A. / U.K. / DUBA / CANADA

Appropriate age grading for testing: For ages over 8 years

For and on behalf of  
TÜV Rheinland (Hong Kong) Ltd.

30 Nov. 2009

William To Assistant Technical Manager

Date

Name/Position

Test result is drawn according to the kind and extent of tests performed.

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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**Material list:**

Material No.	Material	Color	Location
1	coating	white/black	product name logo/brand logo
2	plastic	black	body
3	plastic	green	body
4	plastic	light green	body
5	plastic	yellow	body
6	plastic	light blue	body
7	plastic	red	body
8	plastic	orange	body
9	plastic	deep purple	body
10	plastic	light purple	body
11	plastic	black	connector

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**ASTM F963-08 : Mechanical and physical**

Testing period: 18 Nov. 2009 – 23 Nov. 2009

<b>4.</b>	<b>Safety requirements</b>	
4.1	Material Quality (visual check)	pass
4.11	Nails and fasteners	pass
<b>5</b>	<b>Labeling requirements</b>	
5.2	Age grading labeling	pass
5.16	Promotional materials	pass
<b>7</b>	<b>Producer's markings</b>	
7.1	Name and address of the producer or the distributor	pass

Testing laboratory accredited by DAP according to DIN EN ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.

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**ASTM F963-08 : Flammability on solid and soft toys**

Testing period: 18 Nov. 2009 ~ 23 Nov. 2009

<b>4.2</b>	<b>Flammability on solids and soft toys</b>	pass
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The burning rate of the most severe part = 0.01 Inch/sec.

Note: Maximum permissible burning rate = 0.1 Inch/sec.

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**ASTM F963-08 and CPSIA Sect 101: Total lead content in Paint and Similar Surface-coating materials**

Testing period: 18 Nov. 2009 – 25 Nov. 2009

<b>ASTM F963-08 Sect 4.3.5.1</b>	<b>Total lead content in paint and similar surface-coating materials</b>	pass
<b>CPSIA Sect 101</b>	<b>Total lead content in paint and similar surface-coating materials</b>	pass

**Test method:** Determination of total lead content (Hot plate method, with ref. to EPA 3050B, Microwave assisted digestion method, CPSC-CH-E1001-08 microwave method, CPSC-CH-E1002-08 and CPSC-CH-E1003-09) (QMA 36.035.05 HKG)

Coating is scraped off for testing regardless of the amount with results calculated based on the actual sample weight

**Test result:**

Test No.	Material No.	Lead content (mg/kg)
1	1	<10

Abbreviation: &lt; denotes less than

**Remark:**

According to Consumer Product Safety Improvement Act 2008, section 101, is summarized below:

Effective Date	Limit Lead in paint and similar surface coating
1 year after enactment/ 14 Aug 2009	90 ppm

Testing laboratory accredited by DAP according to DIN EN ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.

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**CPSIA Sect 101: Total lead content in Accessible substrate materials**

Testing period: 18 Nov. 2009 – 20 Nov. 2009

<b>CPSIA Sect 101</b>	<b>Total lead content in Accessible substrate materials</b>	<b>pass</b>
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Test method: Determination of total lead content (Hot plate method, with ref. to EPA 3050B, Microwave assisted digestion method, CPSC-CH-E1001-08 microwave method, CPSC-CH-E1002-08 and CPSC-CH-E1003-09) (QMA 36.035.05 HKG)

Test result:

Test No.	Material No.	Lead content (mg/kg)
1	2	<10
2	3	<10
3	4	<10
4	5	<10
5	6	<10
6	7	<10
7	8	<10
8	9	<10
9	10	<10
10	11	<10

Abbreviation: &lt; denotes less than

Remark: According to Consumer Product Safety Improvement Act 2008, section 101, is summarized below:

Effective Date	Limit Lead in accessible substrate materials
180 days after enactment/10 Feb 2009	600 ppm
1 year after enactment/14 Aug 2009	300 ppm
3 years after enactment/14 Aug 2011	100 ppm

Testing laboratory accredited by DAP according to DIN EN ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.

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**ASTM F963-08 : Soluble heavy metal**

Testing period: 18 Nov. 2009 – 20 Nov. 2009

<b>ASTM F963-08 Sect 4.3.5.2</b>	<b>Soluble heavy metal</b>	pass
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Test method: Determination of heavy metal on paint and similar surface coating material according to ASTM F963-08 (QMA 36.035.25 HKG)

This requirement applies to the coating which can be scraped off and the sample weight is greater than 10 mg

Test result:

Test No.	Material No.	[mg/kg]							
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		Limit							
		60	25	1000	75	60	90	60	500
1(*2)	1	-	-	-	-	-	-	-	-

Abbreviation: &lt; denotes less than

Remark: \*1 The weight of test portion available was less than 10 mg, the test for soluble heavy metal content was not performed

Testing laboratory accredited by DAP according to DIN EN ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.

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**CPSIA Sect 108 : Phthalates**

Testing period: 18 Nov. 2009 – 25 Nov. 2009

<b>CPSIA Sect 108</b>	<b>Phthalates</b>	pass
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Test method: Organic solvent extraction, analyzed by GCMS (QMA 36.035.13 HKG)

Test result:

	Test No.	1	2	3	4
	Material No.	1	2	3	4
Dibutyl phthalate (DBP)	%	<0.005	<0.005	<0.005	<0.005
Butyl benzyl phthalate (BBP)	%	<0.005	<0.005	<0.005	<0.005
Di-2-ethylhexyl phthalate (DEHP)	%	0.020	<0.005	<0.005	<0.005
Di-n-octyl phthalate (DNOP)	%	<0.005	<0.005	<0.005	<0.005
Di-iso-decyl phthalate (DIDP)	%	<0.005	<0.005	<0.005	<0.005
Di-iso-nonyl phthalate (DINP)	%	<0.005	<0.005	<0.005	<0.005

	Test No.	5	6	7	8
	Material No.	5	6	7	8
Dibutyl phthalate (DBP)	%	<0.005	<0.005	<0.005	<0.005
Butyl benzyl phthalate (BBP)	%	<0.005	<0.005	<0.005	<0.005
Di-2-ethylhexyl phthalate (DEHP)	%	<0.005	<0.005	<0.005	<0.005
Di-n-octyl phthalate (DNOP)	%	<0.005	<0.005	<0.005	<0.005
Di-iso-decyl phthalate (DIDP)	%	<0.005	<0.005	<0.005	<0.005
Di-iso-nonyl phthalate (DINP)	%	<0.005	<0.005	<0.005	<0.005

	Test No.	9	10	11
	Material No.	9	10	11
Dibutyl phthalate (DBP)	%	<0.005	<0.005	<0.005
Butyl benzyl phthalate (BBP)	%	<0.005	<0.005	<0.005
Di-2-ethylhexyl phthalate (DEHP)	%	<0.005	<0.005	<0.005
Di-n-octyl phthalate (DNOP)	%	<0.005	<0.005	<0.005
Di-iso-decyl phthalate (DIDP)	%	<0.005	<0.005	<0.005
Di-iso-nonyl phthalate (DINP)	%	<0.005	<0.005	<0.005

Abbreviation: < denotes less than  
n.d. denotes not detect



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- Remark: \*1 Single components with an amount of <0.005% were not considered by the calculation of the sum. In the case which phthalates were not detected, the result is stated "n.d."
- \*2 Requirement according to Consumer Product Safety Improvement Act 2008, section 108, is summarized below:

Date of Implementation	Parameter	Unit	Maximum Allowable Limit
180 days after the date of enactment/10 Feb 2009	Any children's toy or childcare article:		
	Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP) or Di-2-ethylhexyl phthalate (DEHP)	%	<0.1
	Any children's toy that can be placed in a child's mouth or childcare article:		
	Di-n-octyl phthalate (DNOP), Di-iso-decyl phthalate (DIDP) or Di-iso-nonyl phthalate (DINP)	%	<0.1

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**CPSIA Sect 103 : Tracking label**

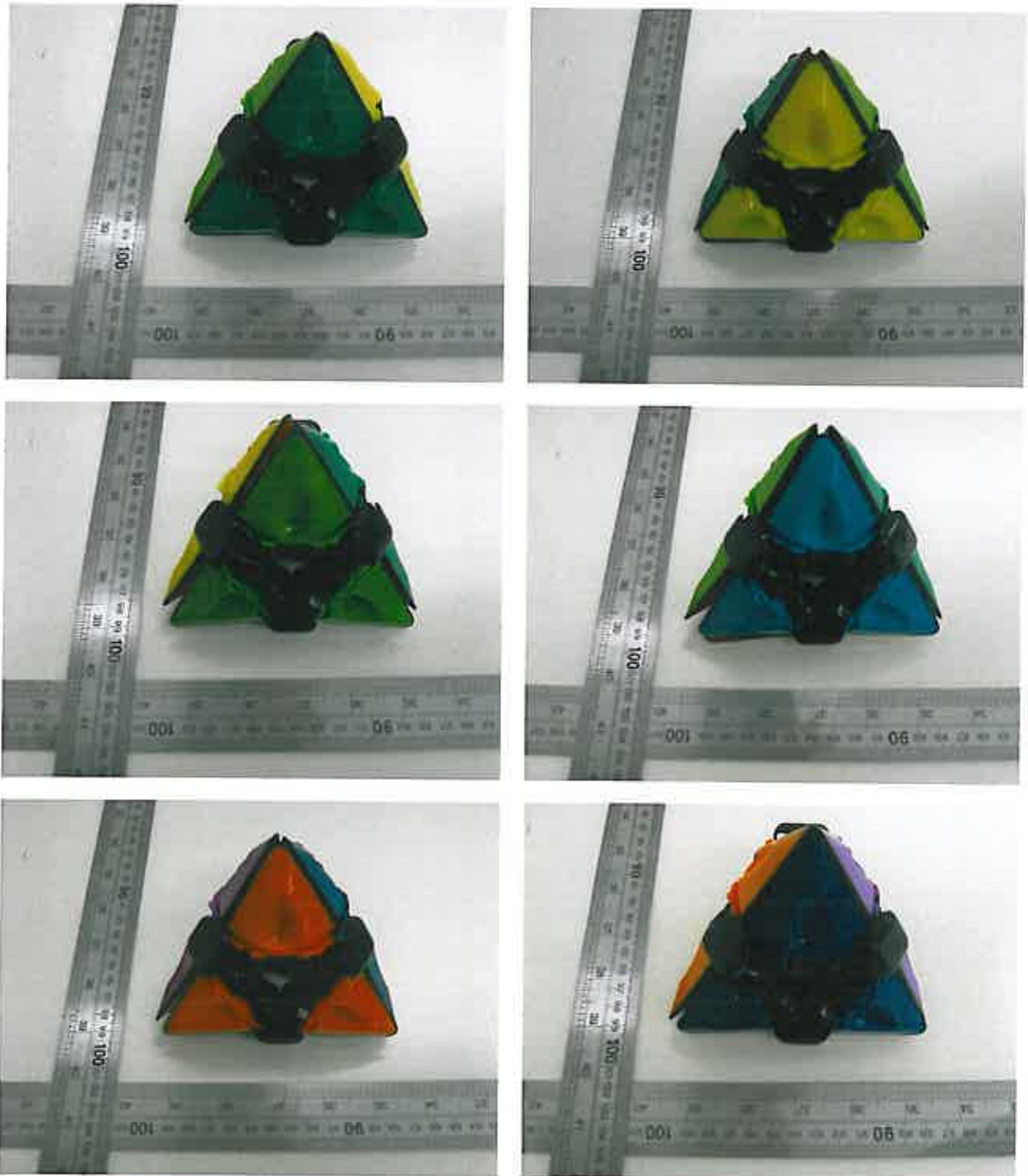
Testing period: 18 Nov. 2009 – 23 Nov. 2009

Tracking Label	pass(*)
Advertisement claims on safety standards	pass(*)

Remark:       \*       The manufacturer/trader/applicant has confirmed that the above information marked (\*) will be shown onto the packaging or instruction sheet and its toy itself.

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Sample photos:



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