



TOY SAFETY TEST REPORT

Client: C0028362
AMERICAN CLASSIC TOY, INC.
176 WEST PENNSYLVANIA AVENUE
SEBRING OH 44672
USA
ATTN: MR. JAY HOROWITZ

Sample Description: IQ Cube Set (includes: Sudoku Cube, Word Cube with Timer, Sudoku Cube Keychain)
Name of Toy: IQ Cube Set
Manufacturer: American Classic Toy, Inc.
Country of Destination: USA
Age Grade for Testing: 7+ (keychain is 5+)

Testing Completion Date: April 14, 2009

Description of Testing: NSF evaluated and tested the submitted toys to determine compliance with the tests referenced below.

Summary of Results:

Testing Parameter	Result
Physical & Mechanical Tests (16 CFR 1500 / ASTM F963-07)	Pass
Labeling & Instructional Requirements (16 CFR 1500 / ASTM F963-07)	Pass
Flammability Test (16 CFR 1500.44 / ASTM F963-07)	Pass
Phthalate Contents (CPSIA)	Pass
Lead in Substrate (CPSIA)	Pass
Lead in Surface Coating (16 CFR 1303)	N/A
Soluble Metals (ASTM F963)	N/A

Comments:

Reviewer:

David Parzen - Manager of Toy Safety

Program Code: 0175 – Toy Safety
Job Number: J-00071423

Region: 01 - Domestic
Project Number: 9064480

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Physical and Mechanical Tests (ASTM F963-07)

Test Report: J-00071423
Sample Description: IQ Cube Set
Age Grade: 7+ (keychain is 5+)

Section	Description of Safety Requirement	N/A	Pass	Fail
4.1	Material Quality		x	
4.2	Flammability		x	
4.3	Toxicology	x		
4.4	Electrical/Thermal Energy	x		
4.5	Sound-Producing Toys	x		
4.6	Small Objects		x	
4.7	Accessible Edges		x	
4.8	Projections	x		
4.9	Accessible Points		x	
4.10	Wires or Rods	x		
4.11	Nails and Fasteners	x		
4.12	Packaging Film	x		
4.13	Folding Mechanisms and Hinges	x		
4.14	Cords, Straps, and Elastics	x		
4.15	Stability and Over-Load Requirements	x		
4.16	Confined Spaces	x		
4.17	Wheels, Tires, and Axles	x		
4.18	Holes Clearances, and Accessibility of Mechanism	x		
4.19	Simulated Protective Devices	x		
4.20	Pacifiers	x		
4.21	Projectile Toys	x		
4.22	Teethers and Teething Toys	x		
4.23	Rattles	x		
4.24	Squeeze Toys	x		
4.25	Battery-Operated Toys		x	
4.26	Toys Intended to be Attached to a Crib or Playpen	x		
4.27	Toy Chest	x		
4.28	Stuffed and Beanbag-Type Toys	x		
4.29	Stroller and Carriage Toys	x		
4.30	Art Materials	x		
4.31	Toy Gun Marking	x		
4.32	Balloons	x		
4.33	Certain Toys with Spherical Ends	x		
4.34	Marbles	x		
4.35	Balls	x		
4.36	Pompoms	x		
4.37	Hemispheric-Shaped Objects	x		
4.38	Yo Yo Elastic Tether Toys	x		
4.39	Magnets	x		

Labeling and Instructional Requirements (ASTM F963-07)

Test Report: J-00071423
Sample Description: IQ Cube Set
Age Grade: 7+ (keychain is 5+)

Section	Description of Requirement	N/A	Pass	Fail
Safety Labeling				
5.2	Age Grading Labeling		x	
5.3 & 5.4	Aquatic Toys	x		
5.3 & 5.5	Crib and Playpen Toys	x		
5.3 & 5.6	Mobiles	x		
5.3 & 5.7	Stroller and Carriage Toys	x		
5.3 & 5.8	Toys Intended to be Assembled by an Adult	x		
5.3 & 5.9	Simulated Protective Devices	x		
5.3 & 5.10	Toys with Functional Sharp Edges or Points	x		
5.11, 16 CFR 1500.19(b)	Small Objects, Small Balls, Marbles, and Balloons	x		
5.12, 16 CFR 1500.86	Toy Caps	x		
5.13, 16 CFR 1500.14	Art Materials	x		
5.14, 16 CFR 1505.3	Electric Toys	x		
5.15	Battery-Operated Toys	x		
5.3 & 5.15.1	Battery-Powered Ride-On Toys	x		
5.16	Promotional Materials		x	
5.17	Magnets	x		
Instructional Literature				
6.1	Definition and Description		x	
6.2	Toy Chests	x		
6.3	Crib and Playpen Toys	x		
6.4	Mobiles	x		
5.3 & 6.5	Toys Intended to be Assembled by an Adult	x		
6.6	Battery-Operated Toys	x		
6.7	Toys in Contact with Food	x		
Producer's Markings				
7.1	Producer's Name and Address		x	
7.2	Toy Chests	x		
7.3	Battery-Powered Ride-on Toys	x		

Comments: Timer included with toy uses a button cell battery so there are no labeling requirements. However in the Timer Manual under "To Replace The Battery:" it says to insert one AAA battery instead of a button cell battery.

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**NSF International
Flammability Test**

Manufacturer: American Classic Toy, Inc. Job Number: J-00071423 Age Grade: 7+ (keychain is 5+)
Product Description: IQ Cube Set Standard: ASTM F963-07 / 16 CFR 1500.44

A. TEST CONDITIONS

1) Conditions during test: 70 °F and 38 % relative humidity

B. TEST DATA

Component	Length of Major Axis (inches)	Does the sample ignite?	Burn Length (inches)	Burn Time (seconds)	Burn Rate (inches/second)
sudoku cube	3.60	no	N/A	N/A	0.00
sudoku cube	3.60	no	N/A	N/A	0.00
sudoku cube	3.60	yes	0.87	60	0.01
sudoku cube	3.60	no	N/A	N/A	0.00

C. RESULTS

Maximum Allowable Burn Rate 0.10 inches/second

Actual Burn Rate 0.01 inches/second

FLAMMABILITY TEST x PASS FAIL

D. COMMENTS: _____

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**NSF International
C0348 Phthalate Testing**

Manufacturer: American Classic Toy, Inc.
Product Description: IQ Cube Set

Job #: J-00071423
Standard(s): CPSIA

Test Procedure: The components specified below are subjected to an extraction and are then analyzed by GC-MS to determine compliance with section 108 of the Consumer Product Safety Improvement Act (CPSIA).

Requirement: DEHP, DBP, and BBP are permanently banned in concentration of more than 0.1% in children's toys or child care articles. DINP, DIDP, and DnOP are temporarily banned in concentrations of more than 0.1% in children's toys that can be placed in the mouth or child care articles. Additionally, California's Proposition 65 bans the use of DnHP in concentrations of more than 0.1% for children's toys and child care articles.

Banned Phthalate Limits by Weight						
DEHP	DBP	BBP	DINP	DIDP	DnOP	DnHP
0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Test Results:

Phthalate Content							
Component Description	DEHP (%)	DBP (%)	BBP (%)	DINP (%)	DIDP (%)	DnOP (%)	DnHP (%)
stickers on cubes	0.006	<0.005	<0.005	<0.068	<0.049	<0.005	<0.005
buttons on timer	<0.005	<0.005	0.005	<0.02	<0.02	<0.005	<0.005
digital screen on timer	<0.005	0.036	<0.005	<0.01	<0.01	<0.005	<0.005

Conclusion: x PASS FAIL COMPLETE

Comments: _____

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NSF International
G0701 Lead in Substrate Material Testing

Manufacturer: American Classic Toy, Inc. Job #: J-00071423
Product Description: IQ Cube Set Standard(s): CPSIA

Test Procedure: XRF technology was used to determine the amount of lead in each of the components specified below.

Requirement: Substrate materials shall not exceed 600 ppm (0.06% by weight) total lead. After August 14, 2009 this limit is reduced to 300 ppm (0.03% by weight). After August 14, 2011 this limit is reduced again to 100 ppm (0.01% by weight). To comply with California's Proposition 65, PVC compounds shall not exceed 200 ppm (0.02% by weight) total lead.

Test Results:

Substrate Lead Content in Toys and Other Children's Products		
Component Description	Results (ppm)	Pass/Fail
white plastic material	<10	Pass
stickers on cubes	<10	Pass
metal on keychain	<10	Pass
white plastic on timer	<10	Pass
buttons on timer	<10	Pass
silver circle on timer	90	Pass
digital screen on timer	<10	Pass
metal screws on timer	<10	Pass

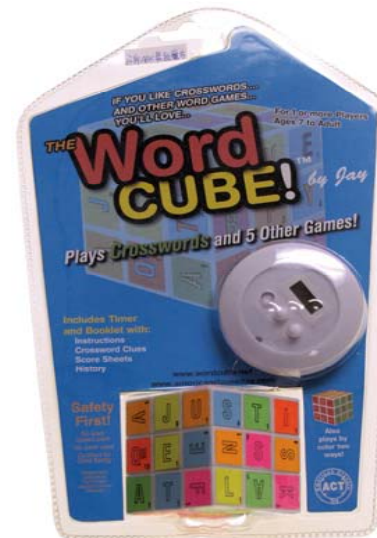
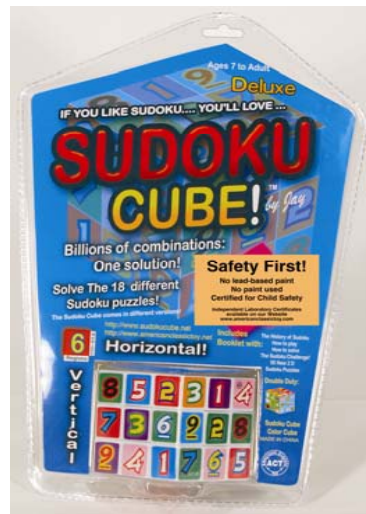
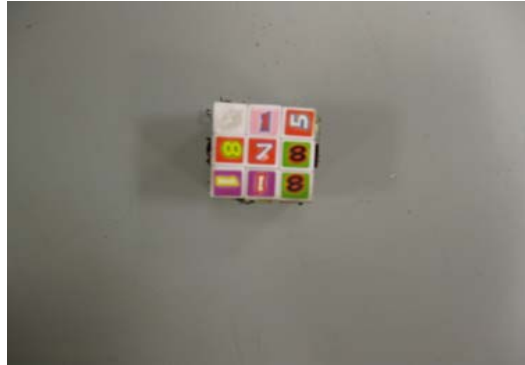
Conclusion: x PASS FAIL COMPLETE

Comments: _____

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Picture

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Sample Description: IQ Cube Set
Age Grade: 7+ (keychain is 5+)



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