



ACTS TESTING LABS, INC.

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Technical Report 4B-01106

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President
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SUBJECT:

Evaluation of 12 FLIP-FLOP PUZZLE MATS samples received on January 28, 1994.

INTRODUCTION:

The samples were evaluated according to the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations (CFR), Part 1500 ff. and ASTM F963-92, "Standard Consumer Safety Specification on Toy Safety."

Sample Description:	FLIP-FLOP PUZZLE MATS
Vendor:	Not Listed
Model/Style:	Not Listed
Origin:	Not Listed
P.O. No.:	n/a

EXECUTIVE SUMMARY:

The samples MEET the Mechanical Hazards and Flammability requirements of the Federal Hazardous Substances Act, Title 16, Code of Federal Regulations, Part 1500 ff. and ASTM F963-92, "Standard Consumer Safety Specification on Toy Safety."

ACTS TESTING LABS, INC.

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I. RESULTS:**A) AGE GRADING (ASTM F963-92, Section 5.6)**

The samples do not contain an age grade; therefore they were tested for children of all ages.

B) USE AND ABUSE TESTS**1. Impact Test (FHSA, Section 1500.51(b))**

Samples A, B, C and D were dropped ten times from a height of 4.5 feet onto the specified impact surface. No Small Parts, Sharp Edges or Sharp Points were revealed.

2. Torque Test (FHSA, Section 1500.53(e))

All graspable components of samples E, F, G and H were subjected to 4 inch-pounds of torque for ten seconds in a clockwise and counterclockwise direction. No Small Parts, Sharp Edges or Sharp Points were revealed.

3. Tension Test (FHSA, Section 1500.53(f))

All graspable components of samples E, F, G and H were subjected to 15 pounds of tension for ten seconds in a parallel and perpendicular direction using a calibrated tension gauge. No Small Parts, Sharp Edges or Sharp Points were revealed.

4. Compression Test (FHSA, Section 1500.53(g))

Samples I, J, K and L were subjected to 30 pounds of compression for ten seconds on all areas that were inaccessible to flat surface contact during the Impact Test. No Small Parts, Sharp Edges or Sharp Points were revealed.

C) FLAMMABILITY (FHSA, Section 1500.3(c)(6)(vi))

The samples were subjected to a five second application of the test flame as specified in Section 1500.44 of the FHSA. The samples ignited and exhibited a burn rate of 0.02 inch per second. The samples MEET the flammability requirement of Section 1500.3(c)(6)(vi) of a burn rate no greater than 0.1 inch per second.