



**TECHNICAL REPORT**

**Report # 28018**

**Thames & Kosmos, LLC  
207 High Point Avenue  
Portsmouth, RI 02871**

**June 30, 2005**

<b>Requested by:</b>	Ted McGuire
<b>Authorization Received:</b>	June 9, 2005
<b>Sample Name:</b>	Volcanos & Earthquakes Kit
<b>Model/Style #:</b>	632519
<b>Sample Received:</b>	June 9, 2005
<b>Number of Samples:</b>	1
<b>Labeled Age Group:</b>	10+
<b>Age Grading to be Applied:</b>	10+
<b>Condition Received:</b>	Good
<b>Testing Completed:</b>	June 28, 2005

**SUMMARY:**

**RESULTS**

**Chemical Analysis:**

16 CFR 1303

DOES COMPLY

**Mechanical Hazards:**

ASTM F963-03

DOES COMPLY

**LHAMA Certification:**

ASTM D4236-94

See page 4 for detailed findings.

**Reviewed by:**

Albert J. Rapella  
Supervisor, Technical Services

Jeffrey D. Lipko  
Technical Director, Hardlines

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**Chemical Analysis: Lead**

**Procedure:** Analysis of the paints or coatings was performed by *Inductively Coupled Argon Plasma or Atomic Absorption Spectroscopy* to determine compliance with **16 CFR 1303**.

**Requirement:** The lead content (calculated as lead metal) shall not exceed 0.06 weight percent (600 ppm) of the dried paint film as required by **16 CFR 1303**.

**Sample ID:** Volcanos & Earthquakes Kit - #632519

**Sample Utilized:** Complete Product Digested

**Test Results:**

	Sample/Color	Total Lead Count	
		Ppm	%
1.	Plaster Powder	<10.0	<0.001
2.	Baking Soda	<10.0	<0.001

**Conclusion:** When tested as specified, the submitted sample **does comply** with **16 CFR 1303** requirements.



**LHAMA Certification:**

As per client's request, this product was evaluated for compliance with the labeling requirements designated in the U.S. Consumer Product Safety Commission (CPSC) Regulations (16 CFR 1500.14) and the American Society for Testing and Materials (ASTM) D 4236-94 (LHAMA Certification).

**Sample ID:**               **Volcanos & Earthquakes Kit - #632519**

The CPSC defines a toxicologist as an individual who through education, training and experience has expertise in the field of toxicology, as it relates to human exposure, and is certified by a nationally recognized certification board (the American Board of Toxicology, Inc.)

As requested, a certified toxicologist reviewed the formulation information for this product which was transmitted by client and requested to be evaluated for compliance with the labeling requirements designated by the US Consumer Product Safety Commission (16 CFR 1500.14) and ASTM D 4236-94 (LHAMA Certification).

A quantitative list of the ingredients in this product was submitted to the reviewer. It is assumed that these ingredients contain no contaminants at levels that would be toxic or irritating to a consumer who may contact them. Searches of the National Library of Medicine's toxicological databases and information from other sources provided no evidence to indicate that any of the ingredients, at the levels they are found in this product, would be expected to cause chronic adverse health effects in consumers who may be exposed to them.

Consequently, exposures to this material would not be expected to pose any significant chronic adverse health effects to humans when this product is used as intended or under circumstances involving reasonable foreseeable misuse.

Provided the assumptions mentioned above are correct, it is my opinion that this "Volcanoes & Earthquakes" product, ITS Labtest Job #28018 conforms to the health requirements of ASTM D4236 and requires no additional labeling in accordance with the Consumer Product Safety Commission's Regulations as mandated by the Labeling of Hazardous Art Materials Act (LHAMA). This product must bear the following statement: "Conforms to ASTM D-4236".

Listing of ingredients and their percentages, as given to Intertek by client, are on file.

**Product Reviewed by:** Dr. Michael J. Norvell, Ph. D., DABT-Toxicologist

