



TECHNICAL REPORT

Report # 35486-1

**DuneCraft, Inc.
P.O. Box 808
Chagrin Falls, OH 44022**

November 15, 2007
**Revised: March 18, 2008*

Requested By:	Grant Cleveland
Authorization Received:	October 9, 2007 & January 30, 2008
Country of Origin:	United States
Sample Name:	Carnivorous Creatures
Model/Style #:	CC-0009
Supplier/Manufacturer:	DuneCraft
Sample Received:	September 19, 2007 & January 9, 2008
Number of Samples:	2
Labeled Age Group:	4+
Age Grading to be Applied:	4+
Condition Received:	Good
Testing Completed:	October 17, 2007 & February 2, 2008

SUMMARY:

RESULTS:

Flammability Testing:

ASTM F963-07 & 16 CFR 1500.44

DOES COMPLY

Mechanical Testing:

ASTM F963-07

DOES COMPLY

Chemical Analysis:

*ASTM F963-07 & 16 CFR 1303, Heavy Metals
(Composite)

BELOW THE LIMITS

*Revised to include results for Carnivorous Creations, which were tested under report #35486-3.

Reviewed by:

Caroline Decherd
Jr. Client Manager

Flammability Test: Federal Hazardous Substances Act and ASTM F963-07

Procedure:

The method of testing was that described in **16 CFR 1500.44** of the *Federal Hazardous Substances Act and ASTM F963-07* for rigid and pliable solids.

Requirement:

A material is considered "flammable" if it ignites and burns with a self-sustained flame at a rate greater than 0.1 inches per second along its major axis.

NOTE:

It is our understanding that a sample is considered as having passed the test requirement if it self-extinguishes before burning 6 inches and prior to the lapse of 60 seconds.

Sample ID: Carnivorous Creatures

	<u>Area of Initial Flame Contact</u>	<u>Burn Length (inches)</u>	<u>Time (seconds)</u>	<u>Burn Rate (inches/second)</u>
Burn 1	Left Front Corner	---	---	DNI
Burn 2	Right Rear Corner	---	---	DNI
Burn 3	Right Front Corner	---	---	DNI
Burn 4	Left Rear Corner	---	---	DNI

DNI = Did Not Ignite

Conclusion: Based upon the results of the test reported above, the submitted sample **does comply** with the requirements of the U.S. Federal Hazardous Substances Act, 16 CFR 1500.44 and ASTM F963-07, Section 4.2.

CONFORMANCE TO ASTM F963-07

Sample ID:	Carnivorous Creatures	Packaging Included:	Yes
Labeled Age Group:	4+	Appropriate Warning	N/A
Recommended Age	4+	Machine Washable Plush	N/A
Tested Age Grade:	4+	Number of Samples:	1
		Conclusion:	PASS

Procedure: The submitted samples were tested to the applicable sections of *ASTM F963-07* requirements.

P = Pass		F = Fail		N/A = Not Applicable		
Clause	Description	P	F	N/A		
4	<i>SAFETY REQUIREMENTS</i>					
4.1	<i>Material quality (visual check on cleanliness)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.7	Accessible edges (under 8 years of age)					
4.7.4	Molded toys	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
*4.12	Packaging film	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6	<u>INSTRUCTIONAL LITERATURE</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.1	Definition and description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7	<u>PRODUCER'S MARKING</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.1	Name YES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	Address YES					

Conclusion: When tested as specified, the submitted sample **does comply** with the *ASTM F963-07* requirements for Mechanical Hazards.

Chemical Analysis: Heavy Metals (Composite)

Procedure: Analysis of the paints or coatings was performed by *Inductively Coupled Argon Plasma* or *Atomic Absorption Spectroscopy* to determine compliance with the **American Society for Testing and Materials Reference Standard F963, paragraph 4.3.5 and 16 CFR 1303.**

Requirements:

- A. **ASTM F-963-07:** Coating materials, to be deemed suitable for use where dry film might be ingested by children, shall not contain weak acid extractable metals.
- B. **CPSC:** The lead content (calculated as lead metal) shall not exceed 0.06 weight percent (600 mg/kg) of the dried paint film as required by **16 CFR 1303.**

Sample ID: **Carnivorous Creatures**

Sample Utilized: **Coating Removed from Product
*Complete Product Digested**

		Results Soluble mg/kg	
		Sample 1	Sample 2
Element	Max Limit mg/kg	Composite of Carnivorous Creations	*Pellets
Extractable Antimony	60	<5.0	<5.0
Extractable Arsenic	25	<2.5	<2.5
Extractable Barium	1000	<5.0	<5.0
Extractable Cadmium	75	<5.0	<5.0
Extractable Chromium	60	<5.0	<5.0
Extractable Lead	90	<5.0	<5.0
Extractable Mercury	60	<5.0	<5.0
Extractable Selenium	500	<5.0	<5.0
Total Lead	600	365.6	<10.0

Note: The submitted composite sample results are **below** the limits specified in *ASTM F963-07*.

In order to determine and report a definitive conclusion, separate colors must be tested. Composite testing is not permitted as per *ASTM-F963-07, Section 4.3.5.*

