



CONSUMER TESTING LABORATORIES, Inc.

HARDLINES TESTING LABORATORY • 611 DREAM VALLEY ROAD • ROGERS, AR 72756
PHONE: (479) 636-8782 • FAX: (479) 636-8961 • ROG.Hardlines.Customer.Service@crs.ul.com

Evaluation of Test Results

Lab Report No: ARHL0797223

Issue Date: July 10, 2020

Item Description: 9 PIECE PUZZLE - 80# UNCOATED PAPER GLUED TO
60 PT GRAPHIC BOARD - 4 PACK CRAYONS - 60 GAUGE SHRINK FILM



Rating: **Pass**

CLIENT: The Chest Inc

COUNTRY OF ORIGIN: United States

SOURCING OFFICE: Not Applicable

SUPPLIER NAME: Chest LLC (The)

STYLE NUMBER: PZ-269

REASON FOR TESTING: Evaluation of the client requested requirements

*** Please see the following pages for additional item information ***

FACTORY NAME: The Chest LLC

ADDITIONAL INFORMATION

1. Testing for the following requirements was conducted by UL Verification Services, Inc., 611 Dream Valley Road, Rogers, Arkansas 72756. (479)636-8782.
2. The sample complies with Section 4.3.5.2 (ASTM F963-17), Toy Substrate Materials.
3. The sample complies with Section 4.7 (ASTM F963-17), Accessible Edges (except labeling and/or instructional literature requirements).
4. The sample complies with Section 4.8 (ASTM F963-17), Projections (except bath toy projections).
5. The sample complies with Section 4.9 (ASTM F963-17), Accessible Points (except labeling and/or instructional literature requirements).
6. The sample complies with Section 4.3.5.1(2) (ASTM F963-17), Surface Coating Materials - Soluble Test for Metals.
7. The sample complies with 16 CFR 1307, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.
8. The sample complies with 16 CFR Part 1303, Lead Paint Regulation.

Specialists in the Evaluation of Consumer Products Since 1952

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a UL company

- 9. The sample complies with 15 USC 1278a, Lead in Non-Metal Children's Products.
- 10. The sample complies with the requirements of 16 CFR 1500.48 Technical Requirements for Determining a Sharp Point in Toys and other Articles Intended for use by Children under 8 years of age.

ADDITIONAL SAMPLE INFORMATION

SIZE(S)	COLOR(S)
Not Applicable	Not Applicable
PO NUMBER(S)	
200416	
UPC CODE(S)	
Not Applicable	
ITEM NUMBER(S)	
Not Applicable	
QUOTE ID(S)	
Q013833	

CONSUMER TESTING LABORATORIES, INC.



Dannon Rose

CATEGORY MANAGER, HARDLINES TESTING

CONSUMER TESTING LABORATORIES, INC.



Chris Dahl

DIRECTOR, HARDLINES TESTING

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TOYS

(Regulatory Compliance)

TECHNICAL WORKSHEET

SAMPLE: 9 Piece Puzzle - 4 Pack Crayons

Labeled Age: Not labeled Tested Age: 3+

4. ASTM F963 SAFETY REQUIREMENTS			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.1	Material Quality	Pass	
4.2	Flammability		
Annex A5	Test Procedure for Solids & Soft Toys	Pass	
Annex A6	Test Procedure for Fabrics	---	N/A - No applicable features
4.3	Toxicology		
4.3.1	All toy components meet the applicable requirements of Restricted Substances and Hazardous Components worksheet for Children's Products - 26-351C (attached)	Pass	
4.3.3 & 4.3.3.2	Food Contact - Toy components intended to be in contact with food, and ceramic toy components intended or likely to hold food meet the requirements of Food Contact Product worksheet 14-1051C (attached)	---	N/A - Not a food contact toy
4.3.4	Cosmetics: Toys which include cosmetics meet the requirements of the Cosmetic worksheet (attached)	---	N/A - Not a cosmetic product
4.3.5.1 (2) & 4.3.5.2	Toys shall meet the applicable requirements for Heavy Elements in Substrates and Coatings as outlined in Section 8.3	Pass	
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders and Items of Avian Feather origin (e.g. "marabou items derived from poultry feathers) meet the requirements for cleanliness, shelf life degradation and contamination as outlined in Section 8.4.1 & 8.4.2	---	N/A - No applicable materials
4.3.6.1	Water Filled Toys - Water used in the filling of toys shall comply with the bacteriological standards for USP Purified Water. Specifically, a test report must be submitted which indicates that the water (taken from a finished toy) has a heterotrophic plate count of < 10 colony forming units per ml (cfu/ml) AND the absence of coliform bacteria		
	Heterotrophic Plate Count: <u>---</u> cfu/ml	---	N/A - No applicable materials
	Coliform Bacteria: <u>---</u>	---	N/A - No applicable materials
4.3.7	Stuffing Materials	---	N/A - Not a stuffed toy

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4. ASTM F963 SAFETY REQUIREMENTS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.5	Sound-Producing Toys (Test method §8.20)	---	N/A - Not a sound producing toy
4.6	Small Objects	---	N/A - Teste for 3+
4.6.2	Mouth Actuated Toys (Test method §8.13)	---	N/A - Not a mouth actuated toy
4.6.2.2	Mouth Actuated Projectile Toys (Test method §8.13.2)	---	N/A - Not a mouth actuated projectile toy
4.7	Accessible Edges	Pass	
4.8	Projections	Pass	
4.9	Accessible Points	Pass	
4. ASTM F963 SAFETY REQUIREMENTS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.10	Wires & Rods	---	N/A - No applicable features
4.11	Nails and Fasteners	---	N/A - No applicable features
4.12	Packaging Film (Test method §8.22)	---	N/A - No applicable features
4.13.1	Folding Mechanisms & Hinges		
4.13.1.1	Folding Mechanisms - Locking device or other means (Test method §8.26.1)	---	N/A - No folding mechanisms
4.13.1.2	Folding Mechanisms - Single Action / Double Action (Test method §8.26.2)	---	N/A - No folding mechanisms
4. ASTM F963 SAFETY REQUIREMENTS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.13.2	Hinge-Line Clearance	---	N/A - No hinges
4.14	Cords, Straps, & Elastics		
4.14.1	Cords, Straps, & Elastics in Toys	---	N/A - No cords, straps or elastics
4.14.2	Self Retracting Pull Cords	---	N/A - No self-retracting pull cords
4.14.3	Pull Toys	---	N/A - Not a pull-toy
4.14.4	Strings, & Lines for Flying Devices	---	N/A - No flying device line or string
4.14.5	Cords on Toy Bags Intended for Children up to 18 Months	---	N/A - No cords, straps or elastics
4.15	Stability & Overload Requirements		
4.15.1	Stability of Ride-On Toys & Seats		
4.15.2	Sideways Stability Requirements (Test method §8.15)	---	N/A - Not a ride-on toy or seat
4.15.3	Fore & Aft Stability (Test method §8.15)	---	N/A - Not a ride-on toy or seat
4.15.4	Stability of Stationary Floor Toys	---	N/A - Not a ride-on toy or seat
4.15.5	Overload Requirements for Ride-On Toys & Seats (Test Method §8.28)	---	N/A - Not a ride-on toy or seat
4.15.6	Wheeled Ride-On Toys (Test method §8.21)	---	N/A - Not a wheeled ride-on toy
4.16	Confined Spaces	---	N/A - No applicable features
4.16.3	Toys that Enclose the Head	---	N/A - No applicable features
4.17	Wheels, Tires & Axles (Test methods §8.11.1 - 8.11.3) Tests for Tire Removal & Snap-in Wheel & Axle Removal	---	N/A - No applicable features
4.18	Holes, Clearances & Accessibility of Mechanisms		
4.18.1	Accessible Clearances for Moveable Segments	---	N/A - No applicable features
4.18.2	Circular Holes in Rigid Materials	---	N/A - No applicable features
4.18.3	Chains & Belts	---	N/A - No applicable features

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4. ASTM F963 SAFETY REQUIREMENTS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.18.4	Inaccessibility of Mechanisms	---	N/A - No applicable features
4.18.5	Winding Keys	---	N/A - No applicable features
4.18.6	Coil Springs	---	N/A - No applicable features
4.19	Simulated Protective Devices	---	N/A - No applicable features
4.20.2	Toy Pacifiers	---	N/A - No applicable features
4.21	Projectile Toys (Test method §8.14)	---	N/A - Not a projectile toy
4.22	Teethers and Teething Toys	---	N/A - Not a teether or teething toy
4.23	Rattles	---	N/A - Not a rattle
4.24	Squeeze Toys	---	N/A - Not a squeeze toy
4.25	Battery Operated Toys		
4.25.1	Markings	---	N/A - Not a battery operated toy
4.25.2	DC Potential	---	N/A - Not a battery operated toy
4.25.3	Charging of Non-rechargeable batteries	---	N/A - Not a battery operated toy
4.25.4 & 5	Battery Accessibility	---	N/A - Not a battery operated toy
4.25.6	Circuit Isolation	---	N/A - Not a battery operated toy
4.25.7	Battery Surface Temperature (Test method §8.17)	---	N/A - Not a battery operated toy
4.26	Toys Intended to be Attached to a Crib or Playpen		
4.26.1	Protrusions	---	N/A - Not a crib or playpen toy
4.26.2	Crib Mobiles - Safety Labeling	---	N/A - Not a mobile
	Crib Mobiles - Instructional Literature	---	N/A - Not a mobile
4.26.3	Crib & Playpen Toys - Safety Labeling	---	N/A - Not a crib or playpen toy
	Crib & Playpen Toys - Instructional Literature	---	N/A - Not a crib or playpen toy
4.27	Stuffed & Beanbag Type Toys (Seam Strength Test §8.9.1)	---	N/A - Not a stuffed/beanbag type toy
4.29	Art materials meet the requirements of the Restricted Substances and Hazardous Components Testing for Art Materials worksheet 26-38IC (attached)	---	N/A - No requested by client
4.31	Balloons		
	Balloons included with toys meet the requirements of the Balloon worksheet 3-50 (attached)	---	N/A - No applicable features
4.32 & 32.1	Certain Toys with Spherical Ends	---	N/A - No applicable features
4.32.2	Nail, Bolt, or Screw Shapes	---	N/A - No applicable features
4.32.3	Preschool Play Figures	---	N/A - No applicable features
4.34	Balls	---	N/A - No applicable features
4.35	Pompoms (Test method §8.16)	---	N/A - No pom-poms
4.36	Hemispheric - Shaped Objects	---	N/A - No applicable features
4.37	Yo-Yo Elastic Tether Toys (Test method §8.24)	---	N/A - Not a yo-yo elastic tether toy
4.38	Magnets (Test method §8.25)	---	N/A - No magnets
4.39	Jaw Entrapment in Handles & Steering Wheels	---	N/A - No applicable features
4.40	Expanding Materials (Test method §8.30)	---	N/A - No applicable features

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5. ASTM F963 LABELING REQUIREMENTS																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
5.3	Safety Labeling Requirements																				
5.4	Aquatic Toys	---	N/A - No applicable features																		
5.5	Crib & Playpen Toys	---	N/A - Not a crib or playpen toy																		
5.6	Mobiles	---	N/A - Not a mobile																		
5.7	Stroller and Carriage Toys	---	N/A - No applicable features																		
5.8	Toy Intended to be Assembled by an Adult	---	N/A - No applicable features																		
5.9	Simulated Protective Devices	---	N/A - No applicable features																		
5.10	Toys with Functional Sharp Edges or Points	---	N/A - No applicable features																		
5.11	Small Objects, Small Balls, Marbles	---	N/A - No applicable features																		
5.11.1 - 5.11.1.4	Safety Label - Formatting Requirements																				
5.11.2	Small Parts	---	N/A - No original small parts																		
5.11.3	Small Balls	---	N/A - No applicable features																		
5.11.4	Marbles	---	N/A - No applicable features																		
5.15	Battery Operated Toys	---	N/A - Not a battery operated toy																		
5.15.2	Button or Coin Cell Batteries	---	N/A - Not a battery operated toy																		
5.16	Promotional Materials	---	N/A - No labeling provided																		
5.17	Magnets	---	N/A - No magnets																		
6. ASTM F963 INSTRUCTIONAL LITERATURE																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
6.1	Definitions & Descriptions	---	N/A - No labeling provided																		
6.2	Crib & Playpen Toys	---	N/A - Not a crib or playpen toy																		
6.3	Mobiles	---	N/A - Not a mobile																		
6.4	Toys Intended to be Assembled by an Adult	---	N/A - No applicable features																		
6.5	Battery Operated Toys	---	N/A - Not a battery operated toy																		
6.7	Toys in Contact with Food	---	N/A - Not a food contact toy																		
7. ASTM F963 PRODUCER'S MARKINGS																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
7.1	Producer's Markings	---	N/A - No labeling provided																		
8. ASTM F963 TEST METHODS																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
8.3	Test Methods for Determination of Heavy Element Content in Toys, Toy Components and Materials <table border="1" data-bbox="347 1619 902 1927"> <thead> <tr> <th colspan="2">Heavy Element Requirements Table</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>0.009% (90-ppm, 90-mg/kg)</td> </tr> <tr> <td>Mercury</td> <td>0.006% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Antimony</td> <td>0.006% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Arsenic</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Barium</td> <td>0.1% (1000-ppm, 1000-mg/kg)</td> </tr> <tr> <td>Cadmium</td> <td>0.0075% (75-ppm, 75-mg/kg)</td> </tr> <tr> <td>Chromium</td> <td>0.006% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Selenium</td> <td>0.05% (500-ppm, 500-mg/kg)</td> </tr> </tbody> </table>	Heavy Element Requirements Table		Lead	0.009% (90-ppm, 90-mg/kg)	Mercury	0.006% (60-ppm, 60-mg/kg)	Antimony	0.006% (60-ppm, 60-mg/kg)	Arsenic	0.0025% (25-ppm, 25-mg/kg)	Barium	0.1% (1000-ppm, 1000-mg/kg)	Cadmium	0.0075% (75-ppm, 75-mg/kg)	Chromium	0.006% (60-ppm, 60-mg/kg)	Selenium	0.05% (500-ppm, 500-mg/kg)		
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8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.3.5	<p><u>Heavy Elements in Surface Coatings</u></p> <p>All Surface Coatings meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicates that the surface coating(s) do not exceed the heavy element requirements in the table above:</p> <p style="text-align: right;">_____ <u>---</u> Y/N</p> <p style="text-align: center;">Test report date: _____ <u>---</u></p> <p>OR</p> <p>Heavy element screening indicates that the total heavy element content in the toy surface coatings do not exceed the above limits</p> <p style="text-align: right;">_____ <u>Yes</u> Y/N</p> <p>OR</p> <p>Soluble element testing indicates that the surface coating(s) scraped from the product do not contain the above compounds in excess of the limits specified above</p> <p style="text-align: right;">_____ <u>---</u> Y/N</p>	Pass	
8.3.5	<p><u>Soluble Heavy Elements in Substrates</u></p> <p><i>For the purposes of this requirement, the following criteria are considered reasonably appropriate for the classification of toys or parts likely to be sucked, mouthed, or ingested:</i></p> <p>(1) <i>All toy parts intended to be mouthed or contact food or drink, components of toys which are cosmetics, and components of writing instruments categorized as toys,</i></p> <p>(2) <i>Toys intended for children less than 6 years of age, that is all accessible parts and components where there is a probability where those parts & components may come in contact with the mouth.</i></p> <p><i>Packaging materials are included if they are intended to be retained as part of the toy or are intended to provide play value.</i></p> <p><i>This requirement applies to all accessible toy or toy component substrate materials except glass, metal and ceramic.</i></p> <p><i>For accessible glass, metal and ceramic toys, or toy components, test only if the glass, metal or ceramic toy or toy component fits entirely within the small parts cylinder.</i></p> <p><i>Accessibility of parts is determined as defined in ASTM F963 § 3.1.2 either before or after abuse testing described in § 8.7-8.10 & 8.12</i></p>		

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8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
	<p>Toys, and toy components which, due to their inaccessibility, size, mass, function, or other characteristics, cannot be sucked, mouthed or ingested are not subject to this requirement. (see ASTM F963 Note 4)</p> <p>In addition, materials now or in future listed in the most current revision of 16 CFR 1500.88 or 16 CFR 1500.91 as exempt from testing and certification requirements are excluded from soluble lead testing for the purposes of determining compliance. §4.3.5.2(1)(e)</p> <p>For the remaining seven heavy elements, only natural untreated wood, paper and paperboard are excluded from testing and certification.</p> <p>Applicable toy substrates meet one of the following: An accredited 3rd party laboratory test report (dated within 1 year) indicating soluble or total heavy elements in the toy substrates do not exceed the limits outlined in the Heavy Elements Requirements Table (above) _____ --- Y/N Test report date: _____ ---</p> <p>OR</p> <p>Heavy element screening indicates that the total heavy element content in the toy substrates does not exceed the limits outlined in the Heavy Elements Requirements Table (above) HDXRF screening will be applied unless the client specifically requests wet chemistry screening method. _____ --- Y/N</p> <p>OR</p>	---	N/A - No applicable materials
8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.3.5	<p>Soluble element testing indicates the heavy element content in the toy substrates do not exceed the above limits _____ --- Y/N</p> <p>AND <u>Special Soluble Cadmium</u> This requirement applies to metallic small parts only</p> <p>Metallic toys or metallic toy components that are small parts before or after abuse testing, meet one of the following: An accredited 3rd party laboratory test report (dated within 1 year) indicates the extracted cadmium content of the toy and/or any applicable toy component does not exceed 200-µg when tested per ASTM F963 § 8.3.5.5(3) - Test Procedure - Special Soluble Cadmium _____ --- Y/N Test report date: _____ ---</p> <p>OR</p> <p>Heavy element screening (ASTM F963 § 8.3.1) indicates the cadmium content does not exceed 0.0075% (75-ppm, 75-mg/kg) _____ --- Y/N</p> <p>OR</p>	---	N/A - No applicable materials

8. ASTM F963 TEST METHODS (continued)																					
SECTION	REQUIREMENTS	RATING	COMMENTS																		
	<p>Testing indicates the extracted cadmium content does not exceed 200-µg when tested per ASTM F963 § 8.3.5.5(c) Test Procedure Special Soluble Cadmium</p> <p style="text-align: right;">--- Y/N</p> <p>Maximum Soluble Elements in Packaging</p> <p>Packaging intended to be retained as part of the toy or that provides play value meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicating soluble or total heavy elements in the packaging substrates do not exceed the limits outlined in the Heavy Elements Requirements Table (<i>above</i>)</p> <p style="text-align: right;">--- Y/N</p> <p>Test report date: ---</p> <p>OR</p> <p>Heavy element screening (<i>ASTM F963 § 8.3.1</i>) indicates that the total heavy element content in the packaging substrates does not exceed the limits outlined in the Heavy Elements Requirements Table (<i>above</i>)</p> <p style="text-align: right;">--- Y/N</p> <p>OR</p> <p>Soluble element testing indicates the heavy element content in the packaging substrates do not exceed the above limits</p> <p style="text-align: right;">--- Y/N</p> <p>Maximum Soluble Migrated Elements in Modeling Clay</p> <p>Modeling clay(s) included with toys meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicates soluble or total heavy elements in the modeling clay substrate(s) do not exceed the following limits:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Modeling Clay - Heavy Elements Requirements</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>0.0090% (90-ppm, 90-mg/kg)</td> </tr> <tr> <td>Mercury</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Antimony</td> <td>0.0060% (60-ppm, 60-mg/kg)</td> </tr> <tr> <td>Arsenic</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Barium</td> <td>0.0250% (250-ppm, 250-mg/kg)</td> </tr> <tr> <td>Cadmium</td> <td>0.0050% (50-ppm, 50-mg/kg)</td> </tr> <tr> <td>Chromium</td> <td>0.0025% (25-ppm, 25-mg/kg)</td> </tr> <tr> <td>Selenium</td> <td>0.0500% (500-ppm, 500-mg/kg)</td> </tr> </tbody> </table> <p style="text-align: right;">--- Y/N</p> <p>Test report date: ---</p> <p>OR</p>	Modeling Clay - Heavy Elements Requirements		Lead	0.0090% (90-ppm, 90-mg/kg)	Mercury	0.0025% (25-ppm, 25-mg/kg)	Antimony	0.0060% (60-ppm, 60-mg/kg)	Arsenic	0.0025% (25-ppm, 25-mg/kg)	Barium	0.0250% (250-ppm, 250-mg/kg)	Cadmium	0.0050% (50-ppm, 50-mg/kg)	Chromium	0.0025% (25-ppm, 25-mg/kg)	Selenium	0.0500% (500-ppm, 500-mg/kg)	---	<p>N/A - No applicable materials</p> <p>N/A - No applicable materials</p>
Modeling Clay - Heavy Elements Requirements																					
Lead	0.0090% (90-ppm, 90-mg/kg)																				
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8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
15 USC 2057	<p>Heavy element screening (ASTM F963 § 8.3.1) indicates that the total heavy element content in the modeling clay substrate(s) does not exceed the above limits</p> <p style="text-align: right;">--- Y/N</p> <p>OR</p> <p>Soluble element testing indicates that the heavy element content in the modeling clay substrate(s) does not exceed the above limits</p> <p style="text-align: right;">--- Y/N</p>		
	<p><u>Phthalates</u> <i>Accessibility is tested before and after reasonable use and abuse testing for all ages up to 12 years in accordance with 16 CFR 1199</i> <i>Only accessible components of the following material types are required to be tested:</i></p> <ul style="list-style-type: none"> • All PVC (Polyvinyl chloride) & related polymers, {e.g. PVDC (polyvinylidene chloride) & PVA (polyvinyl acetate)} • Foam rubber or foam plastic, such as polyurethane (PU) • Surface coatings, non-slip coatings, finishes, decals, & printed designs • Adhesives and sealants • Electrical insulation <p><i>These materials do not require testing:</i></p> <ul style="list-style-type: none"> • Polyolefins (Polypropylene, polyethylene) • Polystyrene (GPPS, MIPS, HIPS, SHIPS) • Acrylonitrile Butadiene Styrene (ABS) <p><u>Phthalates - Toy Components and Reuseable Packaging</u> <i>(including any non-mouthable reusable packaging components)</i></p> <p>Applicable toy and reusable packaging components meet one of the following:</p> <p>An accredited 3rd party laboratory test report (<i>dated within 1 year</i>) indicates that applicable components contain no more than 0.1% (1,000-ppm, 1,000-mg/kg) of each of the following phthalates.</p> <p>DINP (Diisononyl Phthalate, 28553-12-0 and 68515-48-0) DIBP (Diisobutyl phthalate, 84-69-5) DCHP (Dicyclohexyl phthalate, 84-61-7) DEHP (Di(2-ethylhexyl) phthalate, 117-18-7) BBP (Benzyl Butyl Phthalate, 85-68-7) DBP (Dibutyl Phthalate, 84-74-2) DPENP/DnPP (Di-n-pentyl phthalate, 131-18-0) DHEXP/DnHP (Di-n-hexyl phthalate, 131-18-0)</p> <p><i>Test reports must be dated within 1 year of the date received in the approved lab</i></p>		Pass

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8. ASTM F963 TEST METHODS (continued)													
SECTION	REQUIREMENTS	RATING	COMMENTS										
8.4.1	<p>Test report must be submitted at the same time as the request for production testing</p> <p>Test report must indicate that test method CPSC-CH-C1001-09 or GB/T 22048-2008 was used</p> <p>Test report must show a passing test result</p> <p>Test report date: --- / --- / --- Y/N</p> <p>OR</p> <p>Phthalate testing indicates that applicable toy and reusable packaging components contain no more than 0.1% (1,000-ppm, 1,000-mg/kg) of each of the above phthalates</p> <p>Yes / --- Y/N</p> <p>Labs must test using test method CPSC-CH-C1001-09 or GB/T 22048-2008</p>												
	<p>Cleanliness of Materials</p> <p>Applies to: Cosmetics, Liquids, Pastes, Putties, Gels, Powders & Avian Feathers</p> <p>Acceptable Test Methods: USP 35 <61> & <62> Microbial Limits & Pathogen Identification Tests (or most current edition of USP) OR CTFA Microbiology Guidelines Test Methods M-1 & M-2</p>												
8. ASTM F963 TEST METHODS (continued)													
SECTION	REQUIREMENTS	RATING	COMMENTS										
	<p>A test report is provided indicating the product was tested using an acceptable test method and that the product meets the cleanliness requirements indicated in the table below:</p> <p>Test report date (dated within 2 years): _____</p> <table border="1"> <thead> <tr> <th>Product Type</th> <th>Cleanliness Limits (cfu/mL or cfu/gm)</th> </tr> </thead> <tbody> <tr> <td>Infant Products</td> <td>500</td> </tr> <tr> <td>Face paints or cosmetics intended for a child or doll or similar products which have a high likelihood of being used in the area of the eye (excluding lip balms & glosses, lipsticks & similar items)</td> <td>500</td> </tr> <tr> <td>Avian Feather Products</td> <td>5000</td> </tr> <tr> <td>All Other Products</td> <td>5000</td> </tr> </tbody> </table>	Product Type	Cleanliness Limits (cfu/mL or cfu/gm)	Infant Products	500	Face paints or cosmetics intended for a child or doll or similar products which have a high likelihood of being used in the area of the eye (excluding lip balms & glosses, lipsticks & similar items)	500	Avian Feather Products	5000	All Other Products	5000	---	N/A - No applicable materials
Product Type	Cleanliness Limits (cfu/mL or cfu/gm)												
Infant Products	500												
Face paints or cosmetics intended for a child or doll or similar products which have a high likelihood of being used in the area of the eye (excluding lip balms & glosses, lipsticks & similar items)	500												
Avian Feather Products	5000												
All Other Products	5000												
		---	N/A - Not a stuffed toy										

		---	N/A - Not a stuffed toy										

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8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.4.2	<p>Preservative Effectiveness</p> <p>Acceptable Test Methods: USP 35 <51> (or the most current USP) OR CTFA Microbiology Guidelines, methods M-3 or M-6 as appropriate.</p> <p><u>Applies to:</u> products which are judged to be susceptible to microbial degradation or have the potential to support growth</p> <p><u>Does not apply to:</u> Avian feather products, Lip balms, Pomades, Ointments, Wax-based products, Siloxane and siloxane derivative based products, Powders (<i>anhydrous with a water activity below 0.5, and non-hygroscopic</i>), Products with an alcohol content equal to or >20 % (vol/vol), and Water Based Liquid / Gel Products with a pH of < 3 or > 10.</p> <p>For products that are not specifically excluded you must contact the supplier to provide alcohol content (if any) water activity measurement and pH to determine if test report is required.</p> <p>The supplier must submit a test report for products which are judged to be susceptible to microbial degradation or to have the potential to support growth. The report must indicate that the product was tested for microbial control and preservative effectiveness using an acceptable method.</p> <p>The following organisms (at a minimum) are to be used to challenge the product: Staphylococcus aureus, American Type Culture Collection 17 (ATCC) 6538; Escherichia coli; ATCC 8739; Pseudomonas aeruginosa, ATCC 9027; Candida albicans, ATCC 10231; and Aspergillus brasiliensis, ATCC 16404.</p> <p>Evaluation criteria: (a) bacteria must exhibit a log reduction of >2 (<i>that is, population must be less than 1 % of initial inoculum</i>) at 14 days, and show no increase from the 14-day result at 28 days; (b) fungi, yeast, and molds must exhibit no increase from the initial inoculum at either 14 or 28 days.</p>		
		---	<i>N/A - No applicable materials</i>

LABORATORY REPORT No. ARHL0797223

8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.5.1	Washable Toys	---	<i>N/A - No labeled claims</i>
8.6	Abuse Testing	Pass	
8.7	Impact Tests		
8.7.1	Drop Test	Pass	
8.7.2	Tip over Test for Large, Bulky Toys	---	<i>N/A - No applicable features</i>
8.7.3	Tumble Test for Wheeled Toys	---	<i>N/A - No applicable features</i>
8.7.4	Impact Test for Toys that Cover the Face	---	<i>N/A - No applicable features</i>
8.8	Torque Test for Removal of Components	Pass	
8.9	Tension Test for Removal of Components	Pass	
8.9.1	Tension Test for Seams in Stuffed & Beanbag Type Toys	---	<i>N/A - Not a stuffed/beanbag type toy</i>
8.10	Compression Test	---	<i>N/A - No applicable features</i>
8.11.1 - 8.11.3	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	---	<i>N/A - No applicable features</i>
8.12	Flexure Test	---	<i>N/A - No applicable features</i>
8.13	Test for Mouth-Actuated Toys	---	<i>N/A - Not a mouth actuated toy</i>
8.13.2	Mouth Actuated Discharge for Projectile Toys	---	<i>N/A - Not a mouth actuated projectile toy</i>
8.14	Projectiles	---	<i>N/A - Not a projectile toy</i>
8.15	Ride-On Toys - Sideways Stability	---	<i>N/A - Not a ride-on toy or seat</i>
	Ride-On Toys - Fore & Aft Stability	---	<i>N/A - Not a ride-on toy or seat</i>
8.16	Pom-poms Torque / Tension Test	---	<i>N/A - No pom-poms</i>
8.17	Stalled Motor Test for Battery-Operated Toys	---	<i>N/A - Not a battery operated toy</i>
8.20	Test for Toys Which Produce Noise	---	<i>N/A - Not a sound producing toy</i>
8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	Rating	COMMENTS
8.21	Dynamic Strength Test for Wheeled Ride-on Toys	---	<i>N/A - Not a wheeled ride-on toy</i>
8.22	Packaging Film Thickness	---	<i>N/A - Shrink film</i>
8.23	Test for Loops & Cords	---	<i>N/A - No cords, straps or elastics</i>
8.24	Yoyo Elastic Tether Toy Test Methods	---	<i>N/A - Not a yo-yo elastic tether toy</i>
8.25	Magnet Test Methods	---	<i>N/A - No magnets</i>
8.26	Test Methods for Locking Mechanisms or Other Means		
8.26.1	Locking Mechanism or Other Means	---	<i>N/A - No applicable features</i>
8.26.2	Locking Test Method	---	<i>N/A - No applicable features</i>
8.29	Evaluation of Stuffing Materials	---	<i>N/A - No applicable features</i>
8.30	Expanding Materials	---	<i>N/A - No applicable features</i>

LABELING / SUPPORTING DOCUMENTATION (continued)

<p>ELECTRIC TOYS Test report is provided indicating the product meets the requirements specified by 16 CFR 1505 for Electrically Operated Toys and Other Articles Intended for use by Children Test report date: <u>---</u></p>	<p>---</p>	<p><i>N/A - Not an electronic toy</i></p>
<p>BATTERY OPERATED TOYS Battery Operated toys meet the requirements of the Battery Operated Product supplemental worksheet 5-19IC.</p>	<p>---</p>	<p><i>N/A - No applicable features</i></p>
<p>TOY GUNS Toy Guns meet the applicable requirements of Toy Gun Markings worksheet supplement 7-9IC (attached) Toy guns do not include laser pointers</p>	<p>---</p>	<p><i>N/A - Not a toy gun</i></p>
<p>COSTUME / DRESS UP PRODUCTS Products intended to be worn on the body meet the applicable requirements of the Children's Costume and Mask Safety worksheet 18-22 (attached) Dress up / Costume wigs, toupees and hair pieces meet the applicable requirements of the Wig, toupee, hair piece worksheet 2-16 (attached)</p>	<p>---</p>	<p><i>N/A - Not a costume or dress-up product</i></p>
<p>ALL PRODUCTS PROTOCOL Meets the requirements of worksheet supplement 1-5IC - All Products - US Markets (attached)</p>	<p>---</p>	<p><i>N/A - Not a costume or dress-up product</i></p>
<p>CHILD CARE ARTICLES Meet the applicable child care article requirements of worksheet supplement 26-35IC - Restricted Substances and Hazardous Components Children's Products - Child Care Articles (attached)</p>	<p>---</p>	<p><i>N/A - Not requested by client</i></p>
<p>Pass</p>		

CONCLUSIONS

<p>OVERALL RATING</p>	<p>Pass</p>
<p>COMMENTS:</p>	
<p>Latest Change 6/18/20</p>	<p>Removed styrofoam bead req</p>
<p>Reference Material:</p>	<p>ASTM F963 - 16 Standard Consumer Safety Specification on Toy Safety, Code of Federal Regulations Title 16 Commercial Practices, Consumer Product Safety Improvement Act (CPSIA)</p>

This protocol represents testing methods and procedures for testing and evaluating the above specified item. Depending upon the nature of the product, certain tests specified herein may not be applied and / or additional testing procedures may be utilized. This protocol is not intended to be used as a manufacturing or design specification and is subject to revision as further experience and investigation may show necessary.

RESTRICTED SUBSTANCES & HAZARDOUS COMPONENTS TOYS, CHILD CARE ARTICLES & CERTAIN CHILDREN'S PRODUCTS

SAMPLE 9 Piece Puzzle - 4 Pack Crayon

I. IDENTIFICATION and INSPECTION	
	RATING COMMENTS
<p>Note: This worksheet is a regulatory supplement and must accompany the applicable product specific worksheet</p>	
<p>TRACKING LABEL</p> <p>Note: Tracking labeling consists of Manufacturer / Private Labeler Name, location of production, date of production, cohort information (including the batch, run number, or other identifying characteristic); OR this information may be in a code</p> <p>On Package: <u>---</u></p> <p style="margin-left: 40px;"><u>---</u></p> <p>On Product: <u>The Chest, Washington Mo ps.ppa.org/20000814</u></p>	<p style="text-align: center;">---</p> <hr/> <p style="text-align: center;">Pass</p> <hr/>
<p>NON-TOXIC LABELED CLAIMS</p> <p>Note: Testing must be outsourced (if required)</p> <p>Toxicological Risk Assessment Report (TRA) substantiates the "non-toxic" labeled claim</p> <p>Report Date (dated within 5 years) <u>---</u></p>	<p style="text-align: center;">---</p> <hr/> <p style="text-align: center;">---</p> <hr/>
<p>SELF -PRESSURIZED CONTAINERS</p> <p>Self-pressurized container flammability testing must be outsourced (if required)</p> <p>Toys (games) shall not include, or be provided in a self pressurized container (other than soap or similar foam generating mixture provided that the foam generating component has no hazards other than being in a self-pressurized container, as specified in 16 CFR 1500.85).</p> <p>Test report is provided for self-pressurized containers (which ARE permitted as indicated above) to substantiate that the contents are not regarded as flammable per 16 CFR 1500.3c(6)(viii) and 1500.45</p> <p>Test report date <u>---</u></p> <p>Self pressurized containers which include bath / body soaps meet the requirement of the Cosmetic worksheet 2-5 (attached)</p>	<p style="text-align: center;">---</p> <hr/> <p style="text-align: center;">---</p> <hr/> <p style="text-align: center;">---</p> <hr/> <p style="text-align: center;">---</p> <hr/>

FLAME RETARDANT CONTENT

**TCEP – tris(2-chloroethyl) phosphate CAS 115-96-8 AND
TDCPP – tris(1,3-dichloro-2-propyl) phosphate CAS 13674-87-8**

Note: Only applies to the following children's products intended for children 12 years of age and under: Baby Carriers, Baby Walkers, Bath Toys, Bumbo Chairs, Car Seats, Car Seat Pillows, Changing Tables, Crib Mattresses, High Chairs, Infant Bath Mats, Infant Slings, Infant Swings, Nap Mats, Nursing Pillows, Sleep Positioners, Strollers, Toilet Seats, Toys, Children's Tents, Children's Sleepwear, and Children's rug, floor covers

	RATING	COMMENTS
<p>Product meets one of the following: Test report or supplier certification is provided (dated within 1 year) indicating that the total weight limit of TCEP and TDCPP in foam and textile components does not exceed 0.1% (1000-ppm, 1000-mg/kg)</p> <p style="text-align: right;">_____ --- Y/N</p> <p>OR</p> <p>TCEP and TDCPP content in foam and textile components the product does not exceed 0.1% (1000-ppm, 1000-kg/mg)</p> <p>Test report date _____ --- Y/N</p>	---	N/A - Not a CPSIA requirement
<p>HBCD (hexabromocyclododecane) CAS 25637-99-4 TBBPA (tetrabromobisphenol A) CAS 79-94-7</p> <p>Note: Applies to all accessible and inaccessible foam and any upholstery that covers the foam (excluding real leather material) in all children's products, toys, and residential upholstered furniture.</p> <p>Foam and upholstery components, when tested separately for HBCD or TBBPA, meet the one of the following: Test report or supplier certification is provided (dated within 1 year) indicating that the total weight limit of HBCD and TBBPA in foam and upholstery does not exceed 0.1% (1000-ppm, 1000-mg/kg)</p> <p style="text-align: right;">_____ --- Y/N</p> <p>Test report date _____ ---</p> <p>OR</p> <p>Prescreening indicates a Bromine level of <300 ppm, 300 mg/kg</p> <p style="text-align: right;">_____ --- Y/N</p> <p>OR</p> <p>If prescreening shows >300 ppm, 300 mg/kg Bromine, then test using the GC/MS method, HBCD or TBBPA levels individually do not exceed 1000 ppm, 1000 mg/kg</p> <p style="text-align: right;">_____ --- Y/N</p>	---	N/A - No applicable materials

	RATING	COMMENTS
<p>LIQUIDS, PUTTIES, PASTES, POWDERS, GELS <u>Hazardous Chemicals (Liquid or Gel Filled Products)</u> Testing indicates no hazardous chemicals are present in liquid or gel filled products in accordance with 16 CFR 1500.231</p>	---	N/A - No applicable materials
<p><u>Flashpoint Testing (Accessible Liquids and Gels)</u> Accessible liquids or gels (<i>sampled from the finished product</i>) are tested for flash point in accordance with 16 CFR 1500.43 Flashpoint: _____ °F _____ Y/N</p>	---	N/A - No applicable materials
<p><u>Flammability Requirements (Accessible Liquids and Gels)</u> Accessible liquids or gels meet one of the following with respect to flashpoint testing results: Products which are age graded for children under 8 years of age must not have a flashpoint of 150 degrees or lower _____ Y/N</p>	---	N/A - No applicable materials
<p>OR Products age graded for children 8 years of age and older, which have a flashpoint of 150 degrees or lower meet the requirements of the Household Chemical worksheet supplement 1-4 (<i>attached</i>) _____ Y/N</p>		

RATING	COMMENTS
<p>Toxicity & Irritancy (Liquids, Putties, Pastes, Powders & Gels)</p>	
<p><i>Testing must be outsourced (if required)</i></p> <p>Toxicological Risk Assessment Report (TRA) is provided which indicates that all accessible liquids, putties, pastes, powders, gels have been assessed for toxicity risk</p> <p>Report Date (dated within 5 years) <u>---</u></p>	
---	N/A - No applicable materials
<p>LEAD CONTENT - SURFACE COATINGS (16CFR 1303)</p>	
<p><i>The following are exempt: Mirrors which are part of furniture articles and artists' paints and related materials</i></p> <p><i>Note: HDXRF may only be applied to surface coatings on non-metal substrates or to surface coatings scraped off of metal substrates</i></p> <p>Surface Coatings meet one of the following:</p>	
<p>Prescreening indicates a lead level 0.0063% (63-ppm, 63 mg/kg) or less for any surface coating</p> <p><u>---</u> Y/N</p>	
Pass	
<p>OR</p> <p>Lead content of the surface coating(s) scraped from the actual product does not exceed 0.009% (90 ppm, 90-mg/kg)</p> <p><u>Yes</u> Y/N</p>	
<p>LEAD CONTENT - ACCESSIBLE SUBSTRATES (16CFR 1500.87 - 1500.91)</p>	
<p><u>Total Lead in Substrates / Base Materials</u></p> <p><i>Accessibility is tested before and after reasonable use and abuse testing for all ages up to 12 years</i></p> <p>Note: HDXRF testing is not performed on mouthable components of toys and child care articles. For mouthable components of toys and child care articles only perform wet chemistry testing.</p> <p>Product meets one of the following:</p>	
<p>Prescreening indicates a lead level 0.007% (70-ppm, 70-mg/kg) or less for any accessible substrate / base material</p> <p><u>---</u> Y/N</p>	
Pass	
<p>OR</p> <p>Lead content of all accessible substrates / base materials, sampled from the finished product do not exceed 0.01% (100-ppm, 100 mg/kg)</p> <p><i>Exception: Aluminum alloy components of ride on toys intended for children 3 years and older that are not likely to be placed in the mouth or ingested or extensively contacted by a child because of their function and location must not exceed 0.03% (300-ppm, 300-mg/kg)</i></p> <p><u>Yes</u> Y/N</p>	

	RATING	COMMENTS								
<p>LEAD CONTENT - EXEMPT ELECTRONIC COMPONENTS (16CFR 1500.88)</p> <p>Note: The electronic component parts in children's electronic devices, (listed below), are exempt from the lead content substrate requirements; note, this only exempts the listed component part and does not exempt the entire product.</p> <ul style="list-style-type: none"> * Lead blended into the glass of cathode ray tubes, electronic components, and fluorescent tubes. * Lead used in lead-bronze bearing shells and bushings. * Lead used in compliant pin connector systems. * Lead used in optical and filter glass. * Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring, as well as in print pastes. * Lead oxide in the glass envelope of Black Light Blue (BLB) lamps. * Components of electronic devices that are removable or replaceable, such as battery packs and light bulbs that are inaccessible when the product is assembled in functional form or are otherwise granted an exemption. 										
<p>LEAD CONTENT - ELECTRONIC COMPONENTS CONDITIONALLY EXEMPT (16CFR 1500.88)</p> <p>Product meets one of the following:</p> <p>Lead used in electronic components of toys, in the manner described below does not exceed the following limits:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Lead Use</th> <th style="width: 70%;">Limit</th> </tr> </thead> <tbody> <tr> <td>Lead used as an alloying element in steel</td> <td>< 0.35% by weight (3,500-ppm, 3,500 mg/kg)</td> </tr> <tr> <td>Lead used in the manufacture of aluminum</td> <td>< 0.4% by weight (4,000-ppm, 4,000 mg/kg)</td> </tr> <tr> <td>Lead used in copper-based alloys</td> <td>< 4% by weight (40,000-ppm, 40,000 mg/kg)</td> </tr> </tbody> </table> <p style="text-align: right;">--- Y/N</p>			Lead Use	Limit	Lead used as an alloying element in steel	< 0.35% by weight (3,500-ppm, 3,500 mg/kg)	Lead used in the manufacture of aluminum	< 0.4% by weight (4,000-ppm, 4,000 mg/kg)	Lead used in copper-based alloys	< 4% by weight (40,000-ppm, 40,000 mg/kg)
Lead Use	Limit									
Lead used as an alloying element in steel	< 0.35% by weight (3,500-ppm, 3,500 mg/kg)									
Lead used in the manufacture of aluminum	< 0.4% by weight (4,000-ppm, 4,000 mg/kg)									
Lead used in copper-based alloys	< 4% by weight (40,000-ppm, 40,000 mg/kg)									
<p>LEAD CONTENT - ELECTRONIC COMPONENTS (16CFR 1500.88)</p> <p>All other electronic components (other than those described in the exempt or conditionally exempt lists above) meet one of the following requirements:</p> <p>Prescreening indicates a lead level 0.007% (70-ppm, 70-mg/kg) or less for all applicable electronic components</p> <p style="text-align: right;">--- Y/N</p> <p>OR</p> <p>Lead content of applicable electronic components sampled from the finished product does not exceed 0.01% (100-ppm, 100-mg/kg)</p> <p style="text-align: right;">--- Y/N</p>										
	---	N/A - No applicable materials								

	RATING	COMMENTS
<p>FLAMMABILITY OF SOLIDS</p> <p><i>This requirement is applied to all solids including granules, powders, pastes, and rigid and pliable solids</i></p> <p>Children's product's (<i>other than toys</i>) which have an ignition source, or are intended to be used near an ignition source (<i>e.g. lighter, matches, lights etc.</i>) meet one of the following:</p> <p>Solids flammability testing indicates that solids (as <i>described above</i>) do not exceed the maximum allowable limit of no greater than 0.1 inches per second when tested in accordance with 16 CFR 1500.44</p>	---	N/A - No ignition source - not intended to be used near an ignition source
<p>MECHANICAL HAZARDS</p> <p><u>Small Parts</u></p> <p>Product meets requirements of 16CFR 1501 Method for Identifying Toys & Other Articles Intended for Use by Children Under 3 Years of Age Which Represent Choking, Aspiration, or Ingestion Hazards Because of Small Parts</p>	---	N/A - Not for children under 3 yrs
<p><u>Sharp Points</u></p> <p>Note: <i>Evaluation for sharp points is done before and after abuse tests for ages under 8, and as received only for ages 8 - 12</i></p> <p>Product meets the requirements of 16 CFR 1500.48 Technical Requirements for Determining a Sharp Point in Toys and Other Articles Intended for use by Children Under 8 Years of Age</p>	Pass	

	RATING	COMMENTS
<p>Sharp Edges <i>Note: Evaluation for sharp edges is done before and after abuse tests for ages under 8, and as received only for ages 8 - 12)</i> Product meets the requirements of 16 CFR 1500.49 Technical Requirements for Determining a Sharp Edges in Toys and Other Articles Intended for use by Children Under 8 Years of Age</p>	---	N/A - No applicable materials

II. CONCLUSIONS

<p>OVERALL RATING</p>	<p>PASS</p>
<p>COMMENTS:</p>	

Latest Change: Changed TRA report to 5 years.
 04/07/20

Reference Material:

16CFR 1500.231	Guidance for Hazardous Liquid Chemicals in Children's Products
16CFR 1500 & 1500.3	Hazardous Substance and Articles
16CFR 1501	Small Parts Hazards
16CFR 1199.1	Phthalate-containing inaccessible component parts
	Consumer Product Safety Improvement Act of 2008

This technical worksheet represents testing methods and procedures generally used for testing and evaluating the above specified item. Depending upon the nature of the product, certain tests specified herein may not be applied and / or additional testing procedures may be utilized. This technical worksheet is not intended to be used as a manufacturing or design specification and is subject to revision as further experience and investigation may show necessary.

Analytical Chemistry Report

ARHL0797223

Test Summary

Specification / Test Type	Result
1) Phthalate Content of Polymeric Materials	Pass
2) Lead Content of Non-Metallic Substrates	Pass
3) Heavy Metal Content of Non-metal Substrates	Pass

Component List

Component	Description
1	Crayon - blue
2	Crayon - green
3	Crayon - red
4	Crayon - yellow
5	Puzzle with print - black, white

Note: Multiple component numbers on a single test line represent a composite test or combined components

Test Data

1) Phthalate Content of Polymeric Materials

Test Method: Phthalate content was determined with reference to US Consumer Product Safety Commission method CPSC-CH-C1001-09.4

Component	DBP	BBP	DEHP	DnOP	DINP	DIDP	DHEXP	DCHP	DIBP	DPENP	Rating
5	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	Pass

Note: Regulatory limit = 0.1%
Results are expressed as weight percent (wt.%)
DPENP and DHEXP may also be referred to as DnPP and DnHP, respectively.

2) Lead Content of Non-Metallic Substrates

Test Method: Lead content was determined with reference to US Consumer Product Safety Commission method CPSC-CH-E1002-08.3

Component	Pb	Limit	Rating
1	< 10	100	Pass
2	< 10	100	Pass
3	< 10	100	Pass
4	< 10	100	Pass

Note: LOD = 10 mg/kg

3) Heavy Metal Content of Non-metal Substrates

Test Method: Total lead content was determined according to CPSC-CH-E1002-08.3. Additional elements were analyzed with reference to EPA methods 6010D or 6020B

Component	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Rating
Limit	25	1000	75	60	60	100	60	500	-
5	< 20	28	< 5	< 10	< 5	< 10	< 30	< 100	Pass

Note: Elements that are below the LOD are reported as "<LOD"
A pass rating demonstrates compliance to ASTM F963-17

† - Result above the applicable limit. Additional testing was required to determine rating

< = less than

ND = Not Detected, LOD = Limit of Detection

Results expressed in mg/kg unless otherwise noted