



Image3D, LLC  
4211 SE International Way, Suite D Milwaukie, OR 97222  
Telephone: 1-503-632-2470 Email: [info@image3d.com](mailto:info@image3d.com)  
Web: [www.image3d.com](http://www.image3d.com)

## ENVIRONMENTAL & SAFETY INFORMATION ON Image3D PRODUCTS

Image3D is very concerned about the environment and participates in providing environmentally friendly products as well as participating in recycling programs for all of its waste. Image3D SAFETY TESTING attached.

### Image3D VIEWERS

Image3D viewers are made using a blend of reground (approximately 25%) ABS and natural ABS (Acrylonitrile Butadiene Styrene). ABS is a thermo-polymer widely used throughout the world in the production of injection molded items such as automotive parts, computer cases, plumbing pipes, airplane parts, car bumpers, toy building blocks, golf club heads and many other molded plastic materials. ABS is extensively used in the manufacture of inexpensive, durable products.



ABS is widely recycled and reused worldwide by a regrinding and/or Re-pelletizing process. Image3D uses a mixture of reground (approximately 25%) ABS and natural ABS in the injection molding process for its viewers. Any scrap material is reground and reused so no ABS waste is sent to landfills.

Recycling centers throughout the world accept ABS for regrinding.

ABS products often have a symbol, representing the resin coding system that was introduced in 1988 by the Society of the Plastics Industry.



### Image3D CUSTOM REELS

Image3D custom reel are made of a polyester film material categorized as HDPE from Eastman Kodak and can be recycled. The chemicals used in the film processing equipment, also supplied by Eastman Kodak, is biodegradable with the exception of the silver content. Image3D reclaims 99.97% of the silver so virtually none goes into the waste stream. Information supplied by Eastman Kodak is attached for reference. The laminate used to encapsulate the reels is a polyester film and is fully recyclable in the same manner as the reel film. Recycling symbol for the reels is Polyester HDPE #2

### Image3D PACKAGING

Image3D packaging is fully recyclable. All corrugated materials and paper used in the production of packaging can be recycled in the standard method used worldwide for paper or corrugated materials.



# 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](mailto:ROG.Hardlines.Customer.Service@crs.ul.com)

## Evaluation of Test Results

Lab Report No: ARHL0801856

Issue Date: August 03, 2020



Item Description: 3D reels and Viewers (U.S. & Mexico)

Rating: **Pass**

CLIENT: Image3D LLC

COUNTRY OF ORIGIN: United States

SOURCING OFFICE: Not Applicable

SUPPLIER NAME: Image3D LLC

STYLE NUMBER: Not Applicable

REASON FOR TESTING: Evaluation of the client requested requirements

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

FACTORY NAME: Image3D

### 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 4.3.5.1(2) (ASTM F963-17), Surface Coating Materials - Soluble Test for Metals.
3. The sample complies with Section 4.3.5.2 (ASTM F963-17), Toy Substrate Materials.
4. The sample complies with 16 CFR 1307, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.
5. The sample complies with 15 USC 1278a, Lead in Non-Metal Children's Products.
6. The sample complies with 16 CFR Part 1303, Lead Paint Regulation.
7. The sample complies with Section 4.7 (ASTM F963-17), Accessible Edges (except labeling and/or instructional literature requirements).
8. The sample complies with Section 4.8 (ASTM F963-17), Projections (except bath toy projections).

## Specialists in the Evaluation of Consumer Products Since 1952

This report is governed by, and incorporates by reference, the Terms and Conditions of Testing appearing on our website <http://www.consumer-testing.com/> and is intended for your exclusive use. Any copying or replication of this report or disclosure of test results to or for any other person or entity, and any use of our name and/or seal is strictly prohibited without our prior written authorization. This report sets forth our findings with respect to the individual sample(s) tested only. CTL's liability shall not exceed the fees paid for the testing reflected on this report.

Arkansas • Hong Kong • Canada • China • Bangladesh

a UL company

9. The sample complies with Section 4.9 (ASTM F963-17), Accessible Points (except labeling and/or instructional literature requirements).
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

<b>SIZE(S)</b>	<b>COLOR(S)</b>
Not Applicable	Black, Red, Blue, White
<b>PO NUMBER(S)</b>	
2020Testing	
<b>UPC CODE(S)</b>	
Not Applicable	
<b>ITEM NUMBER(S)</b>	
Not Applicable	

CONSUMER TESTING LABORATORIES, INC.



Dannon Rose

CATEGORY MANAGER, HARDLINES TESTING

CONSUMER TESTING LABORATORIES, INC.



Chris Dahl

DIRECTOR, HARDLINES TESTING

### Specialists in the Evaluation of Consumer Products Since 1952

This report is governed by, and incorporates by reference, the Terms and Conditions of Testing appearing on our website <http://www.consumer-testing.com/> and is intended for your exclusive use. Any copying or replication of this report or disclosure of test results to or for any other person or entity, and any use of our name and/or seal is strictly prohibited without our prior written authorization. This report sets forth our findings with respect to the individual sample(s) tested only. CTL's liability shall not exceed the fees paid for the testing reflected on this report.

Arkansas • Hong Kong • Canada • China • Bangladesh



LABORATORY REPORT No. ARHL0801856

# TOYS

## (Regulatory Compliance)

### TECHNICAL WORKSHEET

SAMPLE: 3D Reels and ViewersLabeled Age: Not labeledTested 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 materials
4.3	Toxicology		
4.3.1	All toy components meet the applicable requirements of Restricted Substances and Hazardous Components worksheet for Children's Products - 26-35IC (attached)	Pass	See attached report for details
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 14-105IC (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	See attached report for details
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

LABORATORY REPORT No. ARHL0801856

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 - Tested for ages 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 items
4.11	Nails and Fasteners	---	N/A - No applicable items
4.12	Packaging Film (Test method §8.22)	---	N/A - No applicable items
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 items
4.16.3	Toys that Enclose the Head	---	N/A - No applicable items
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 items
4.18	Holes, Clearances & Accessibility of Mechanisms		
4.18.1	Accessible Clearances for Moveable Segments	Pass	
4.18.2	Circular Holes in Rigid Materials	---	N/A - No applicable items
4.18.3	Chains & Belts	---	N/A - No applicable items

LABORATORY REPORT No. ARHL0801856

4. ASTM F963 SAFETY REQUIREMENTS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
4.18.4	Inaccessibility of Mechanisms	Pass	
4.18.5	Winding Keys	---	N/A - No applicable items
4.18.6	Coil Springs	---	N/A - No applicable items
4.19	Simulated Protective Devices	---	N/A - No applicable items
4.20.2	Toy Pacifiers	---	N/A - No applicable items
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 applicable items
4.31	Balloons		
	Balloons included with toys meet the requirements of the Balloon worksheet 3-50 (attached)	---	N/A - No applicable items
4.32 & 32.1	Certain Toys with Spherical Ends	---	N/A - No applicable items
4.32.2	Nail, Bolt, or Screw Shapes	---	N/A - No applicable items
4.32.3	Preschool Play Figures	---	N/A - No applicable items
4.34	Balls	---	N/A - No applicable items
4.35	Pompoms (Test method §8.16)	---	N/A - No pom-poms
4.36	Hemispheric - Shaped Objects	---	N/A - No applicable items
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 items
4.40	Expanding Materials (Test method §8.30)	---	N/A - No applicable items

LABORATORY REPORT No. [ARHL0801856](#)

5. ASTM F963 LABELING REQUIREMENTS			
SECTION	REQUIREMENTS	RATING	COMMENTS
5.3	Safety Labeling Requirements		
5.4	Aquatic Toys	---	N/A - No applicable items
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 items
5.8	Toy Intended to be Assembled by an Adult	---	N/A - No applicable items
5.9	Simulated Protective Devices	---	N/A - No applicable items
5.10	Toys with Functional Sharp Edges or Points	---	N/A - No applicable items
5.11	Small Objects, Small Balls, Marbles	---	N/A - No applicable items
5.11.1 - 5.11.1.4	Safety Label - Formatting Requirements		
5.11.2	Small Parts	---	N/A - No applicable items
5.11.3	Small Balls	---	N/A - No applicable items
5.11.4	Marbles	---	N/A - No applicable items
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 packaging / labeling
5.17	Magnets	---	N/A - No magnets
6. ASTM F963 INSTRUCTIONAL LITERATURE			
SECTION	REQUIREMENTS	RATING	COMMENTS
6.1	Definitions & Descriptions	---	N/A - No packaging / labeling
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 items
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 applicable items
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		
	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)		

LABORATORY REPORT No. [ARHL0801856](#)

8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.3.5	<p><b><u>Heavy Elements in Surface Coatings</u></b></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;">--- Y/N</p> <p style="text-align: center;">Test report date: ---</p> <p><b>OR</b></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;">Yes Y/N</p> <p><b>OR</b></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;">Yes Y/N</p>	Pass	See attached report for details
8.3.5	<p><b><u>Soluble Heavy Elements in Substrates</u></b></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) 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,</p> <p>(2) 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 &amp; components may come in contact with the mouth.</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 &amp; 8.12</i></p>		

LABORATORY REPORT No. [ARHL0801856](#)

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:</p> <p>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) <span style="float: right;">--- Y/N</span></p> <p style="text-align: center;">Test report date: ---</p> <p><b>OR</b></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)</p> <p>HDXRF screening will be applied unless the client specifically requests wet chemistry screening method. <span style="float: right;">Yes Y/N</span></p> <p><b>OR</b></p>	<p>Pass</p>	<p>See attached report for details</p>
<b>8. ASTM F963 TEST METHODS (continued)</b>			
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 <span style="float: right;">Yes Y/N</span></p> <p><b>AND</b></p> <p><b>Special Soluble Cadmium</b></p> <p><i>This requirement applies to metallic small parts only</i></p> <p>Metallic toys or metallic toy components that are small parts before or after abuse testing, meet one of the following:</p> <p>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 <span style="float: right;">--- Y/N</span></p> <p style="text-align: center;">Test report date: ---</p> <p><b>OR</b></p> <p>Heavy element screening (ASTM F963 § 8.3.1) indicates the cadmium content does not exceed 0.0075% (75-ppm, 75-mg/kg) <span style="float: right;">--- Y/N</span></p> <p><b>OR</b></p>	<p>---</p>	<p>N/A - No applicable materials</p>

LABORATORY REPORT No. [ARHL0801856](#)

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><b>Maximum Soluble Elements in Packaging</b></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><b>OR</b></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><b>OR</b></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>	---	N/A - No applicable materials																		
	<p><b>Maximum Soluble Migrated Elements in Modeling Clay</b></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="width: 100%;"> <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><b>OR</b></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)	---	N/A - No applicable materials
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)																				

LABORATORY REPORT No. [ARHL0801856](#)

8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
15 USC 2057	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  ----- Y/N		
	<b>OR</b>  Soluble element testing indicates that the heavy element content in the modeling clay substrate(s) does not exceed the above limits  ----- Y/N		
	<p><b>Phthalates</b>  <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"> <li>• All PVC (Polyvinyl chloride) &amp; related polymers, {e.g. PVDC (polyvinylidene chloride) &amp; PVA (polyvinyl acetate)}</li> <li>• Foam rubber or foam plastic, such as polyurethane (PU)</li> <li>• Surface coatings, non-slip coatings, finishes, decals, &amp; printed designs</li> <li>• Adhesives and sealants</li> <li>• Electrical insulation</li> </ul> <p><i>These materials do not require testing:</i></p> <ul style="list-style-type: none"> <li>• Polyolefins (Polypropylene, polyethylene)</li> <li>• Polystyrene (GPPS, MIPS, HIPS, SHIPS)</li> <li>• Acrylonitrile Butadiene Styrene (ABS)</li> </ul> <p><b>Phthalates - Toy Components and Reuseable Packaging</b>  <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	<a href="#">See attached report for details</a>

LABORATORY REPORT No. ARHL0801856

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: <u>---</u> <u>---</u> Y/N</p> <p><b>OR</b></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><u>Yes</u> Y/N</p> <p>Labs must test using test method CPSC-CH-C1001-09 or GB/T 22048-2008</p>												
	<p><b>Cleanliness of Materials</b></p> <p>Applies to: Cosmetics, Liquids, Pastes, Putties, Gels, Powders &amp; Avian Feathers</p> <p>Acceptable Test Methods: USP 35 &lt;61&gt; &amp; &lt;62&gt; Microbial Limits &amp; Pathogen Identification Tests (or most current edition of USP) <b>OR</b> CTFA Microbiology Guidelines Test Methods M-1 &amp; 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>	---	N/A - No applicable materials										
	<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 &amp; glosses, lipsticks &amp; 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 - Not a stuffed toy
	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										
		---	N/A - No applicable materials										
		---	N/A - No applicable materials										
		---	N/A - Not a stuffed toy										

LABORATORY REPORT No. [ARHL0801856](#)

8. ASTM F963 TEST METHODS (continued)			
SECTION	REQUIREMENTS	RATING	COMMENTS
8.4.2	<p><b><u>Preservative Effectiveness</u></b></p> <p>Acceptable Test Methods: USP 35 &lt;51&gt; (or the most current USP) <b>OR</b> 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 &gt;20 % (vol/vol), and Water Based Liquid / Gel Products with a pH of &lt; 3 or &gt; 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 &gt;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>	---	<a href="#">N/A - No applicable materials</a>

LABORATORY REPORT No. ARHL0801856

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

LABORATORY REPORT No. [ARHL0801856](#)

LABELING / SUPPORTING DOCUMENTATION		RATING	COMMENTS										
<b>ILLINOIS - LEAD POISONING PREVENTION ACT WARNING LABEL</b> <i>Applies to toys with an accessible component containing any external coating, including but not limited to paint, ink, lacquer, or screen printing, designed for or intended for use by children under the age of 12 at play</i>  <i>Only accessible components will be tested to meet these requirements. An accessible component is a part that is easily touched, either before or after use and abuse testing</i>  Toys which have lead content in the surface coating greater than 0.004% (40 ppm, 40 mg/kg), include the following warning labeling: <b>WARNING: CONTAINS LEAD. MAY BE HARMFUL IF EATEN OR CHEWED. COMPLIES WITH FEDERAL STANDARDS</b>		---	N/A - Labeling not required										
<b>STUFFED / PLUSH TOY LABELING</b> Includes stuffing label with the following information: Registration number (including country code) --- The statement : "All New Material" Identification of filling material		---	N/A - Not a stuffed toy										
<table border="1"> <thead> <tr> <th>Labeled Filler</th> <th>Observed Filler</th> </tr> </thead> <tbody> <tr> <td>---</td> <td></td> </tr> <tr> <td>---</td> <td>---</td> </tr> <tr> <td>---</td> <td>---</td> </tr> <tr> <td>---</td> <td>---</td> </tr> </tbody> </table>		Labeled Filler	Observed Filler	---		---	---	---	---	---	---	---	N/A - Not a stuffed toy
Labeled Filler	Observed Filler												
---													
---	---												
---	---												
---	---												
<b>Note:</b> The form, design and size of the label is left to the discretion of the manufacturer, provided that the information required on the label is clearly legible Stuffing labeling that is required by PA., OH, and MA must be visible at the point of sale. If the toy is packaged the label must be visible through the packaging box windows, or the label must be duplicated on the package.		---	N/A - Not a stuffed toy										
<b>STUFFED ARTICLE PROTOCOL</b> <i>The following requirements are not applied to costume components or products intended exclusively for the Puerto Rico market.</i> One of the following conditions is met:  The URN number on the law tag is registered on the Global Registration Services (GRS) website: <a href="http://prod.globalrsinc.com/Testlab/Index">http://prod.globalrsinc.com/Testlab/Index</a>  URN is confirmed on GRS website --- Y/N		---	N/A - Not a stuffed toy										
<b>OR</b>			N/A - Not a stuffed toy										

LABORATORY REPORT No. ARHL0801856

LABELING / SUPPORTING DOCUMENTATION (continued)		
<p>The supplier must submit the following:</p> <ul style="list-style-type: none"> <li>- All applicable state applications</li> <li>- Proofs of Payment</li> <li>- Proof of GRS registration</li> </ul> <p>All applicable documents are provided <u>---</u> Y/N</p>		N/A - Not a stuffed toy
<p><b>STUFFED TOYS FILLER MATERIAL CLEANLINESS - Pennsylvania Code</b>  <b>Fiber Fill Materials (PA Code - 47.317)</b></p>		
<p>Fiber fill material for stuffed toys whether natural or synthetic, does not contain any of the following, when tested in accordance with Pennsylvania Code - 47.317 Tolerances for the Commonwealth of Pennsylvania Regulations for Stuffed Toys:</p>		
(1) Material of sufficient size to visibly reveal a pattern, weave, or other mechanical unification of threads to indicate prior use or a previous manufacturing process.	---	N/A - No applicable items
(2) Dirt or other foreign matter in excess of 1% by weight	---	N/A - No applicable items
(3) More than 1% oil or grease	---	N/A - No applicable items
(4) More than .002% lead (as Pb) — 20 ppm	---	N/A - No applicable items
(5) More than .0002% arsenic (as As) — 2 ppm	---	N/A - No applicable items
(6) More than 5% ammonia	---	N/A - No applicable items
(7) More than 1% urea	---	N/A - No applicable items
(8) Stones or other hard materials with jagged or sharp edges	---	N/A - No applicable items
(9) Material bearing electrostatic charge with adherence characteristics which when exposed could lodge in the windpipe, ears or nostrils	---	N/A - No applicable items
<p><b>FCC - RADIO CONTROLLED TOYS</b></p>		
<p>The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p>		
<p><b>Operating Frequency 26.96 - 27.78 MHz</b></p> <p><u>Transmitter Labeling</u></p> <p>Transmitter includes the following permanently applied labeling regarding compliance with FCC Part 15 regulations (no required labeling for receivers operating at less than 30 MHz)</p> <p><i>This device complies with part 15 of the FCC Rules (47CFR Part 15). Operation is subject to the following two conditions:</i></p> <p><i>(1) This device may not cause harmful interference, and</i></p> <p><i>(2) this device must accept any interference received, including interference that may cause undesired operation</i></p>	---	N/A - Not a radio-controlled toy
	---	N/A - Not a radio-controlled toy

LABORATORY REPORT No. ARHL0801856

LABELING / SUPPORTING DOCUMENTATION (continued)		
<b>Operating Frequency 49.82 - 49.90 MHz</b>  Receivers and Transmitters which operate at a frequency of 49.82 - 49.90 MHz include the following permanently applied labeling regarding compliance with FCC Part 15 regulations  <i>This device complies with part 15 of the FCC Rules (47CFR Part 15). Operation is subject to the following two conditions:</i> (1) <i>This device may not cause harmful interference, and</i> (2) <i>this device must accept any interference received, including interference that may cause undesired operation</i>	---	N/A - Not a radio-controlled toy
<b>FCC - ELECTRONIC TOYS</b> <u>Class B - Digital Device - Unintentional Radiators</u> Class B digital devices (over 9 kHz) meet one of the following: Product includes a marking stating: <i>This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation</i>	---	N/A - Not a radio-controlled toy
<b>AND</b> The user manual or instruction sheet for Class B digital devices or peripherals shall include the following or similar statement placed in a prominent location:  <div style="text-align: right;">Y/N</div>	---	N/A - Not an electronic toy
<b>NOTE:</b> This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules (47CFR Part 15). These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an output on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help.	---	N/A - Not an electronic toy
<b>OR</b>  Test report is provided which indicates that the product qualifies for exemption  <div style="text-align: right;">Y/N</div>	---	N/A - Not an electronic toy
<b>RECHARGEABLE BATTERY OPERATED TOYS</b> Test report is provided indicating the product meets the applicable requirements of ASTM F963 2016 §4.25.11-Toys that Contain Secondary Cells or Secondary Batteries  <div style="text-align: right;">Y/N</div>	---	N/A - Not an electronic toy
Test report date: ---	---	N/A - Not an electronic toy

LABORATORY REPORT No. [ARHL0801856](#)

LABELING / SUPPORTING DOCUMENTATION (continued)		
<b>ELECTRIC TOYS</b> 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: ---	---	N/A - Not an electronic toy
<b>BATTERY OPERATED TOYS</b> Battery Operated toys meet the requirements of the Battery Operated Product supplemental worksheet 5-19IC.	---	N/A - No applicable items
<b>TOY GUNS</b> Toy Guns meet the applicable requirements of Toy Gun Markings worksheet supplement 7-9IC (attached) Toy guns do not include laser pointers	---	N/A - Not a toy gun
	---	N/A - Not a toy gun
<b>COSTUME / DRESS UP PRODUCTS</b> 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)	---	N/A - Not a costume or dress-up product
	---	N/A - Not a costume or dress-up product
<b>ALL PRODUCTS PROTOCOL</b> Meets the requirements of worksheet supplement 1-5IC - All Products - US Markets (attached)	Pass	
<b>CHILD CARE ARTICLES</b> Meet the applicable child care article requirements of worksheet supplement 26-35IC - Restricted Substances and Hazardous Components Children's Products - Child Care Articles (attached)	---	N/A - No applicable items
<b>CONCLUSIONS</b>		
<b>OVERALL RATING</b>		Pass
COMMENTS:		
<div> <div>Latest Change</div> <div>6/18/20</div> </div> <div> <div>Removed styrofoam bead req</div> </div> <div> <div>Reference Material:</div> <div>ASTM F963 - 16 Standard Consumer Safety Specification on Toy Safety, Code of Federal Regulations Title 16 Commercial Practices, Consumer Product Safety Improvement Act (CPSIA)</div> </div>		
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** 3D Reels and Viewers

I. IDENTIFICATION and INSPECTION		
	RATING	COMMENTS
<p><b>Note:</b> This worksheet is a regulatory supplement and must accompany the applicable product specific worksheet</p>		
<b>TRACKING LABEL</b>		
<p><b>Note:</b> 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: ---</p>	---	N/A - No packaging provided
<p>On Product: ---</p> <p style="margin-left: 20px;"><u>Made in USA</u></p>	Pass	Justification letter provided
<b>NON-TOXIC LABELED CLAIMS</b>		
<p><b>Note:</b> 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) ---</p>	---	N/A - No labeled claims
<b>SELF -PRESSURIZED CONTAINERS</b>		
<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>	---	N/A - No applicable items
<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 ---</p>	---	N/A
<p>Self pressurized containers which include bath / body soaps meet the requirement of the Cosmetic worksheet 2-5 (attached)</p>	---	N/A

**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
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) <div style="text-align: right;">             --- Y/N           </div>	---	N/A - No applicable items
<b>OR</b> TCEP and TDCPP content in foam and textile components the product does not exceed 0.1% (1000-ppm, 1000-mg/kg) <div style="text-align: right;">             --- Y/N           </div>		
<b>HBBCD (hexabromocyclododecane) CAS 25637-99-4</b> <b>TBBPA (tetrabromobisphenol A) CAS 79-94-7</b>		
<b>Note:</b> 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.		
Foam and upholstery components, when tested separately for HBBCD 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 HBBCD and TBBPA in foam and upholstery does not exceed 0.1% (1000-ppm, 1000-mg/kg) <div style="text-align: right;">             --- Y/N           </div>	---	N/A - No applicable items
Test report date --- <div style="text-align: right;">             --- Y/N           </div>		
<b>OR</b> Prescreening indicates a Bromine level of <300 ppm, 300 mg/kg <div style="text-align: right;">             --- Y/N           </div>		
<b>OR</b> If prescreening shows >300 ppm, 300 mg/kg Bromine, then test using the GC/MS method, HBBCD or TBBPA levels individually do not exceed 1000 ppm, 1000 mg/kg <div style="text-align: right;">             --- Y/N           </div>		

	RATING	COMMENTS
<b>LIQUIDS, PUTTIES, PASTES, POWDERS, GELS</b> <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	---	N/A - No applicable items
<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  <div style="text-align: right;">Flashpoint: _____ °F _____ Y/N</div>	---	N/A - No applicable items
<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  <div style="text-align: right;">_____ Y/N</div> <p><b>OR</b></p> 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> )  <div style="text-align: right;">_____ Y/N</div>	---	N/A - No applicable items

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

		RATING	COMMENTS								
<b>LEAD CONTENT - EXEMPT ELECTRONIC COMPONENTS (16CFR 1500.88)</b>											
<p><b>Note:</b> 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"> <li>* Lead blended into the glass of cathode ray tubes, electronic components, and fluorescent tubes.</li> <li>* Lead used in lead-bronze bearing shells and bushings.</li> <li>* Lead used in compliant pin connector systems.</li> <li>* Lead used in optical and filter glass.</li> <li>* 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.</li> <li>* Lead oxide in the glass envelope of Black Light Blue (BLB) lamps.</li> <li>* 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.</li> </ul>											
<b>LEAD CONTENT - ELECTRONIC COMPONENTS CONDITIONALLY EXEMPT (16CFR 1500.88)</b>											
Product meets one of the following: Lead used in electronic components of toys, in the manner described below does not exceed the following limits:		---	N/A - No applicable items								
<table border="1"> <thead> <tr> <th>Lead Use</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>Lead used as an alloying element in steel</td> <td>&lt; 0.35% by weight (3,500-ppm, 3,500 mg/kg)</td> </tr> <tr> <td>Lead used in the manufacture of aluminum</td> <td>&lt; 0.4% by weight (4,000-ppm, 4,000 mg/kg)</td> </tr> <tr> <td>Lead used in copper-based alloys</td> <td>&lt; 4% by weight (40,000-ppm, 40,000 mg/kg)</td> </tr> </tbody> </table>		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)										
_____ Y/N											
<b>LEAD CONTENT - ELECTRONIC COMPONENTS (16CFR 1500.88)</b>											
All other electronic components (other than those described in the exempt or conditionally exempt lists above) meet one of the following requirements:		---	N/A - No applicable items								
Prescreening indicates a lead level 0.007% (70-ppm, 70-mg/kg) or less for all applicable electronic components											
_____ Y/N											
<b>OR</b>											
Lead content of applicable electronic components sampled from the finished product does not exceed 0.01% (100-ppm, 100-mg/kg)											
_____ Y/N											

	RATING	COMMENTS
<p><b>FLAMMABILITY OF SOLIDS</b></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 - Tested as a toy
<p><b>MECHANICAL HAZARDS</b></p> <p><u>Small Parts</u></p> <p>Product meets requirements of 16CFR 1501 Method for Identifying Toys &amp; 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 - Tested as 3+
<p><u>Sharp Points</u></p> <p><b>Note:</b> <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
<b>Sharp Edges</b> <b>Note:</b> Evaluation for sharp edges is done before and after abuse tests for ages under 8, and as received only for ages 8 - 12) 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	---	N/A - No applicable materials

**II. CONCLUSIONS****OVERALL RATING****PASS**

COMMENTS:

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

## ARHL0801856

### Test Summary

Specification / Test Type	Result
1) Phthalate Content of Polymeric Materials	Pass
2) Heavy Metal Content of Non-metal Substrates	Pass
3) Heavy Metal Content of Surface Coatings	Pass
4) Soluble Heavy Metals in Surface Coatings - ASTM F963-17	Pass
5) Soluble Heavy Metals in Substrates - ASTM F963-17	Pass

### Component List

Component	Description
1	Paint - black
2	Paint - brown
3	Paint - orange
4	Paint - white
5	Paint - red
6	Paint - green
7	Paint - blue
8	Plastic case - blue
9	Plastic case - white
10	Plastic case - black
11	Plastic case - red
12	Plastic case - dark navy blue
13	Plastic eye lens - clear
14	Plastic light window - gray
15	Plastic slide handle - black
16	Plastic picture disk - black
18	Paint - yellow

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
1,2,3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	Pass
15,16,18	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	Pass
4,5,6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	Pass
7,13,14	< 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) 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	-
11,12,13	< 20	< 5	< 5	< 10	< 5	< 10	< 30	< 100	Pass
14,15,16	< 20	< 5	< 5	< 10	< 5	< 10	†	< 100	Pass
8,9,10	< 20	< 5	< 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

# Analytical Chemistry Results

## ARHL0801856

### 3) Heavy Metal Content of Surface Coatings

Test Method: Total lead content was determined according to CPSC-CH-E1003-09.1. 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	40	60	500	-
1,2,3	< 20	38	< 15	†	< 5	< 15	< 30	< 100	Pass
4,5,6	< 20	310	< 15	< 10	< 5	< 15	< 30	< 100	Pass
7,18	< 20	21	< 15	< 10	< 5	< 15	< 30	< 100	Pass

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

### 4) Soluble Heavy Metals in Surface Coatings - ASTM F963-17

Test Method: The following components were tested for soluble heavy metals with reference to ASTM F963-17.

Component	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Rating
Limit	25	1000	75	60	60	90	60	500	-
1	< 2	< 2	< 2	< 2	< 2	< 2	< 6	< 8	Pass
2	< 2	< 2	< 2	< 2	< 2	< 2	< 6	< 8	Pass
3	< 2	< 2	< 2	< 2	< 2	< 2	< 6	< 8	Pass

Note: A pass rating demonstrates compliance to ASTM F963-17

### 5) Soluble Heavy Metals in Substrates - ASTM F963-17

Test Method: The following components were tested for soluble heavy metals with reference to ASTM F963-17.

Component	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Rating
Limit	25	1000	75	60	60	90	60	500	-
14	< 2	< 2	< 2	< 2	< 2	< 2	< 6	< 8	Pass
15	< 2	< 2	< 2	< 2	< 2	< 2	< 6	< 8	Pass
16	< 2	< 2	< 2	< 2	< 2	< 2	< 6	< 8	Pass

Note: 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



# 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](mailto:ROG.Hardlines.Customer.Service@crs.ul.com)

## Evaluation of Test Results

Lab Report No: ARHL0802275

Issue Date: August 03, 2020



Item Description: 3D reels and Viewers (Canada)

Rating: **Pass**

CLIENT: Image3D LLC

COUNTRY OF ORIGIN: United States

SOURCING OFFICE: Not Applicable

SUPPLIER NAME: Image3D LLC

STYLE NUMBER: Not Applicable

REASON FOR TESTING: Evaluation of the client requested requirements

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

FACTORY NAME: Image3D

## Specialists in the Evaluation of Consumer Products Since 1952

This report is governed by, and incorporates by reference, the Terms and Conditions of Testing appearing on our website <http://www.consumer-testing.com/> and is intended for your exclusive use. Any copying or replication of this report or disclosure of test results to or for any other person or entity, and any use of our name and/or seal is strictly prohibited without our prior written authorization. This report sets forth our findings with respect to the individual sample(s) tested only. CTL's liability shall not exceed the fees paid for the testing reflected on this report.

Arkansas • Hong Kong • Canada • China • Bangladesh

a UL company

## ADDITIONAL SAMPLE INFORMATION

<b>SIZE(S)</b>	<b>COLOR(S)</b>
Not Applicable	Black, Red, Blue, White
<b>PO NUMBER(S)</b>	
Not Applicable	
<b>UPC CODE(S)</b>	
Not Applicable	
<b>ITEM NUMBER(S)</b>	
Not Applicable	

CONSUMER TESTING LABORATORIES, INC.



Dannon Rose

CATEGORY MANAGER, HARDLINES TESTING

CONSUMER TESTING LABORATORIES, INC.



Chris Dahl

DIRECTOR, HARDLINES TESTING

## Specialists in the Evaluation of Consumer Products Since 1952

This report is governed by, and incorporates by reference, the Terms and Conditions of Testing appearing on our website <http://www.consumer-testing.com/> and is intended for your exclusive use. Any copying or replication of this report or disclosure of test results to or for any other person or entity, and any use of our name and/or seal is strictly prohibited without our prior written authorization. This report sets forth our findings with respect to the individual sample(s) tested only. CTL's liability shall not exceed the fees paid for the testing reflected on this report.

Arkansas • Hong Kong • Canada • China • Bangladesh



**TOY**  
**(Canada Independent Client)**  
 TECHNICAL WORKSHEET

SAMPLE 3D Reels and Viewers (Canada)**I. IDENTIFICATION and INSPECTION****AGE GRADING**Labeled age Not provided

Age group(s) for which the sample is tested:

Under 36 months NoOver 36 months Yes

Contents of Set (if applicable)

---

---

**INSTRUCTIONS**

Includes complete instructions regarding assembly, installation, use, maintenance, and cleaning (as applicable)

**FLEXIBLE FILM BAGS** - CCPSA Toys Regulations Item 4; Health Canada Product Safety Laboratory Method M03

All flexible film bags meets one of the following requirements:

Flexible film bag(s) has an opening of less than 356 mm (14 in.) in circumference

--- Y/N**OR**

Flexible film bag(s) is made from film which is at least 0.75 mil thick and exhibits the following legibly printed warning:

**"PLASTIC BAGS CAN BE DANGEROUS. TO AVOID DANGER OF SUFFOCATION KEEP THIS BAG AWAY FROM BABIES AND CHILDREN"****LES SACS DE PLASTIQUE PEUVENT ÊTRE DANGEREUX. POUR ÉVITER LE DANGER DE SUFFOCATION, NE LAISSEZ PAS CE SAC À LA PORTÉE DES BÉBÉS NI DES ENFANTS.**--- Y/N**FINISH / WORKMANSHIP**

Good overall appearance and good finish qualities. No components malformed and / or fractured. Shall have no discernible surface degradation, including crazing, shivering, denting, bubbles, cracks, stains, deformations, chips, heavy lines, waves, shear marks, scratches, scuff marks, indentations, or blisters.

**RATING****COMMENTS**

---

*N/A - No applicable items**N/A - No applicable items**N/A - No packaging provided*

---

*N/A - No flexible film bags**N/A - No flexible film bags**N/A - No flexible film bags***Pass**

**II. CONSTRUCTION****MECHANICAL HAZARDS**Small Parts (CCPSA Toys Regulations Item 7)

Toys intended for children < 36 months of age include no detached components or parts which can be totally enclosed in the small parts cylinder. A force of not more than 0.45 kg is applied to each component when attempting to place in cylinder. (components or parts constructed entirely of soft textile fiber material are excluded)

---

*N/A - Not intended for children under 36 months of age*

Metal Edges (CCPSA Toys Regulations Item 8 & Test Method M00.2)

Metal parts are constructed so that there are no exposed sharp metal edges. Exposed metal edges are folded back, covered with paint, or otherwise treated to eliminate all sharpness and burrs

---

*N/A - No metal used in construction*

Wire Frames (CCPSA Toys Regulations Item 9)

Toys containing an embedded rod or wire frame or structure shall have all ends of wire covered, turned in or turned back so that no sharp ends become exposed or protrude with reasonable foreseeable use testing

---

*N/A - No embedded rods or wire frame*

Metal, Wood or Glass Points (Test Method M00.3)

Toy exhibits no metal, wood or glass points that are exposed upon initial visual and tactile examination

---

*N/A - No metal, glass or wood used in construction*

Plastic Edges & Points (CCPSA Toys Regulations Item 10 & Test Method M00.2)

Toy exhibits no exposed sharp plastic edges or points that are exposed upon initial visual and tactile

Pass

*Note: Does not apply to sharp plastic edges or points that are required for the product to function as intended*

Wood (CCPSA Toys Regulations Item 11 & Test Method M00.2)

Wooden surfaces, edges, or corners are smoothly finished upon initial visual and tactile examination

---

*N/A - No wood used in construction*

Glass (CCPSA Toys Regulations Item 12 & Test Method M00.2)

Glass edges and corners are smoothly finished upon initial visual and tactile examination

---

*N/A - No glass used in construction*

Fasteners (CCPSA Toys Regulations Item 13)

Exhibits no fasteners capable of causing personal injury before or after Reasonably Foreseeable Use testing, including, but not limited to the following requirements:

Nails and staples are properly attached

---

*N/A - No nails or staples*

Wood screws of the countersunk head type are properly

---

*N/A - No countersunk type wood screws*

Wood screws are free of all exposed burrs

---

*N/A - No wood screws*

	RATING	COMMENTS
Fasteners used in upholstering or upholstering like application are properly secured and of a type that, if exposed would not be a hazard	---	<i>N/A - No upholstering type fasteners</i>
Threaded bolts are protected by an acorn or similar nut, or protective cap, or are placed so that contact with the threaded ends is not likely to occur	---	<i>N/A - No threaded bolts</i>
Exhibits no other type fasteners capable of causing personal injury before or after Reasonably Foreseeable Use testing,	<b>Pass</b>	
<u>Safety Stops or Locking Devices (CCPSA Toys Regulations Item 14)</u>		
Toy which includes a folding mechanism, bracket, or bracing provides a safety stop, or a locking device to prevent unintentional collapse	---	<i>N/A - No folding mechanism, bracket or bracing</i>
<u>Spring-Wound Driving Mechanisms (CCPSA Toys Regulations Item 15)</u>		
All spring-wound driving mechanisms ( <i>capable of injuring a child's finger</i> ) are enclosed to prevent access both before or after Reasonably Foreseeable Use testing	---	<i>N/A - No spring wound driving mechanism</i>
Non-detachable winding key is of a size and shape that a child's finger cannot become caught in it	---	<i>N/A - No spring wound driving mechanism</i>
Detachable winding key or starting handle exhibits a clearance space between the key or handle and the body of the product that is < 2 mm or >10 mm	---	<i>N/A - No spring wound driving mechanism</i>
<u>Projectile Components (CCPSA Toys Regulations Item 16)</u>		
Projectile component ( <i>capable of causing a skin puncture wound</i> ) includes a rubber tip or other durable fitting component on the projectile's leading end ( <i>rocketry components excluded</i> )	---	<i>N/A - Not a projectile toy</i>
<u>Enclosures (CCPSA Toys Regulations Item 17)</u>		
Toy which is large enough for a child to enter and can be closed by a lid or door, provides ventilation of sufficient size and number in each of two or more adjacent sides to prevent suffocation of a child enclosed therein	---	<i>N/A - No lid or door</i>
<u>Stability (CCPSA Toys Regulations Item 18)</u>		
Stationary toy which is intended to bear the weight of a child stands level and firm in use	---	<i>N/A - Not a stationary toy intended to bear the weight of a child</i>
<u>Plant Seeds - Noise (CCPSA Toys Regulations Item 35)</u>		
Toy intended for children less than three years of age does not contain plant seed used as pellets for making noise	---	<i>N/A - Not intended for children under 36 months of age</i>
<u>Push &amp; Pull Toys with Shaft-Like Handles (CCPSA Toys Regulation Item 37)</u>		
Push and pull toys incorporating a shaft-like handle which measures 3/8 inch in diameter or less exhibit a protective tip on the handle's end	---	<i>N/A - Not a push or pull toy</i>

	RATING	COMMENTS
<u>Carriage, Stroller, Crib or Playpen Toys (CCPSA Toys Regulation Item 41)</u>		
Elastics (used to attach toys across a carriage, crib, or playpen) meet at least one of the following requirements:  Demonstrates extensibility of not more than 75% of its unstretched length <b>OR</b> Exhibits a fully stretched length of not more than 0.75 meters	---	N/A - No elastics used to attach toys across baby carriages, cribs or playpens
	---	N/A - No elastics used to attach toys across baby carriages, cribs or playpens
<u>Yo-Yo Type Balls (CCPSA Toys Regulation Item 42 (1))</u> The stretchable cord of a yo-yo type ball must not be capable of extending to 500 mm (20 inches) or greater in length.	---	N/A - Not a yo-yo type ball
<u>Toys with Stretchable Cords (similar to Yo-Yo Balls) (CCPSA Toys Regulation Item 42 (2))</u>		
A stretchable cord that is made of a soft pliable material and that is attached to a ball, or to an object of any other shape, whether or not the ball or object is made of the same material, must not be capable of extending to 500 mm (20 inches) or greater in length.	---	N/A - Not a toy with a stretchable type cord similar to a yo-yo ball
<u>Dolls, Plush Toys &amp; Soft Toys - Stuffing (CCPSA Toys Regulations Item 29 a &amp; b)</u>		
Stuffing material is clean and free of vermin	---	N/A - No stuffing materials
Stuffing material is free of hard / sharp foreign matter	---	N/A - No stuffing materials
<u>Plant Seeds - Stuffing Material (CCPSA Toys Regulations Item 36)</u>		
Exhibits no plant seed used as stuffing material	---	N/A - No stuffing materials
<u>Prohibition of Cellulose Nitrate (CCPSA Toys Regulations Item 21)</u>		
Toys (other than ping pong balls) are not made of or impregnated with celluloid or cellulose nitrate. Plastic toy components are tested using FTIR technology	Pass	

**III. MECHANICAL HAZARDS**

	RATING	COMMENTS
<b>NORMAL USE TESTS</b> Properly performs all labeled and intended functions	Pass	
<b>REASONABLE FORESEEABLE USE TESTS</b> Health Canada Product Safety Laboratory Method M-01.1 Reasonably Foreseeable Use Note: <i>In accordance with revision dated 02/18/2019 to Section 5 of the test method, all materials will now be evaluated both before and after reasonably foreseeable use (i.e. plastic, metal, glass and wood)</i>  Withstands the following reasonably foreseeable use tests without creation of sharp edges or points, or small parts (if intended for children under 36 months of age), or any other hazardous condition:  <u>Drop Test</u> Withstands 4 drops from the height of 1.367 ( $\pm 0.005$ ) meters onto a concrete surface covered with floor tile. The toy is dropped in an orientation most likely to cause damage  Note: If toy is marketed for children over three, drop height is adjusted to 0.90 meters above the impact surface	Pass	

	RATING	COMMENTS
<b><u>Push or Pull Test</u></b> Select a component of the sample that is suspect of being separable or sharp if damaged, or if the removal might expose other hazards. Gradually apply a push <b>OR</b> pull force in a direction most likely to result in a hazard ( <i>record below</i> ). <i>Not applicable to eye/ nose of dolls or plush/soft toys (see below).</i> <i>Projectile tips are subjected to pull (not push) force (see below).</i> <b>Note:</b> For rubber toys that contain a squeaker, if a push results in the partial dislodgement of the squeaker, an additional pull may be applied to attempt to remove the squeaker completely		
<b><u>Push Test</u></b> Withstands a 42.5 N ( $\pm 2.0$ N) push force applied gradually over a period of 5 seconds to any component of the toy and maintained for 10 seconds	Pass	
<b><u>Pull Test</u></b> Withstands a 42.5 N ( $\pm 2.0$ N) pull force applied gradually over a period of 5 seconds to any component of the toy and maintained for 10 seconds	Pass	
<b><u>Projectile Components (CCPSA Toys Regulations Item 16)</u></b> The protective rubber tip or other durable fitting component on the leading end of a projectile component withstands a 42.5 N ( $\pm 2.0$ N) pull force without detaching	---	N/A - Not a projectile toy
The protective tip on the handle of a push / pull toy withstands a 42.5 N ( $\pm 2.0$ N) pull force without detaching	Pass	N/A - No applicable items
<b>REASONABLE FORESEEABLE USE OF DOLLS &amp; PLUSH TOYS (CCPSA Toys Regulations Item 31)</b> Health Canada Product Safety Laboratory Method M-01.2		
<b><u>Eye / Nose Pull Test</u></b> <i>Notes: Testing is not required for eyes or noses which are constructed entirely of soft material,</i> <i>- Test is applied only to eyes or noses in which the greatest dimension is 31.75 mm (1.25 in.) or less</i> <i>- Apply the push or pull test (above) for any eyes or noses where this test cannot be applied due to either of the following circumstances:</i> 1). The eye or nose cannot be grasped by the 3 prong claw hook. 2). The 3 prong claw hook slides off of the eyes or nose when attempting to test		
Eyes and noses withstand, without detaching, a 8.92 kg ( $\pm 0.05$ ) force applied as follows:	---	N/A - No applicable items
Attach the 3 prong claw hook to the eyes or nose ( <i>if the claw hook cannot be attached, testing is not required.</i> ) Pass the claw hook through a 25.4 mm diameter hole in a supporting disk. Gradually apply the force over a period of 5 sec. and leave freely suspended for 5 min.		
<i>Note: If there is insufficient clearance for the eye or nose to pass through the 25.4 mm diameter hole with the claw hook attached, use a disk with a 38.1 mm diameter hole.</i>		

	RATING	COMMENTS
<b>FLAMMABILITY OF DOLLS AND SOFT TOYS</b> <i>"Soft toys" includes stuffed, pliable rubber and pliable plastic toys.</i> <u>Fabrics</u> (CCPSA Toys Regulations Item 32) Dolls, plush and soft toys that have an outer covering consisting in whole or in part of a flat or raised fibre textile or natural fur, meet flammability requirements <u>Hair and Manes</u> (CCPSA Toys Regulations Item 34) Dolls, plush and soft toys that have hair or mane, or simulated hair or simulated mane, consisting of material other than yarn, meet flammability requirements <u>Yarns</u> (CCPSA Toys Regulations Item 33) Dolls, plush and soft toys with exposed surfaces consisting in whole or in part of yarn of spun staple or bulked continuous filament, meet flammability	---	N/A - Not a doll, or a plush or soft toy
<b>NOISE LEVEL TEST</b> (CCPSA Toys Regulations Item 19) Health Canada Product Safety Laboratory Method M-04 Demonstrates noise level not exceeding 100 decibels when measured at a distance that the product would ordinarily be from the ear of the child using it	---	N/A - Not a doll, or a plush or soft toy
<b>NOISE LEVEL TEST</b> (CCPSA Toys Regulations Item 19) Health Canada Product Safety Laboratory Method M-04 Demonstrates noise level not exceeding 100 decibels when measured at a distance that the product would ordinarily be from the ear of the child using it	---	N/A - No noise making functions
<b>MAGNET PRODUCTS</b> <i>Applies to all novelty and toy magnet products (under 14 years) which include more than one magnet or magnetic component which fit entirely within the small parts cylinder (Described in Schedule 1 of the Canada Toys Regulations) and with a magnetic flux index of 50 kgf<sup>2</sup> mm<sup>2</sup> or more</i> Is the product intended for children under 14 years of age and includes more than one magnet or magnetic components which fit entirely within the small parts cylinder? Product is tested and is not considered a 'Hazardous Magnet per the requirements of ASTM F963 §4.38 <i>Note: The safety labeling exception described in Section 4.38.3 for Hobby and craft, kit-type items intended for children over 8 years of age is not accepted for Canada products; however, Science kits which are advanced educational sets involving both magnetism and electricity and which are intended for 8 yrs. up to 14 yrs. the safety labeling is acceptable.</i>	---	N/A - No magnets
<b>BATTERY OPERATED TOYS</b> <u>Battery Leakage Test</u> (CCPSA Toys Regulations Item 43); (Schedule 9 Test Method for Batteries used in Toys) The supplier shall submit a test report for all battery types that are supplied with the toy. The test report shall indicate the batteries withstand without leakage, testing as indicated in Canada's Toys Regulations	---	N/A - Not battery operated
<b>ELECTRICAL TOY</b> - CCPSA Toys Regulations Item 5 Electrical toys meet the requirements of the Electrical Toy worksheet 7-10CA (attached)	---	N/A - Product is not electrically operated

BATTERY CHARGER / TRANSFORMER	RATING	COMMENTS
Toy which includes a battery charger / transformer meets requirements of Battery Charger / Transformer worksheet 7-6CA (attached)	---	N/A - No battery charger or transformer
<b>ADDITIONAL CONSUMER PRODUCT REGULATIONS</b>		
The "All Products" worksheet supplement includes consumer product regulatory requirements that are in addition to the requirements of the toys regulations, such as (but not limited to):		
<ul style="list-style-type: none"> <li>- Consumer Packaging and Labeling Act</li> <li>- Textile Fiber Identification requirements</li> <li>- Food Contact Product requirements</li> </ul>	<ul style="list-style-type: none"> <li>- Quebec Charter of the French Language requirements</li> <li>- Upholstered and Stuffed Article requirements</li> <li>- Radio Controlled Product requirements (RSS 210 / 310)</li> </ul>	
This testing is only performed when requested specifically by the client.		
Meets the requirements of All Products Worksheet supplement 1-5CAIC (attached)	---	N/A - Testing not requested by the client

**III. CONCLUSIONS****OVERALL RATING****PASS**

COMMENTS:

Latest Change: 07/08/19: Updated to latest revision of Health Canada's Product Safety Lab Test Method for Reasonable Use, specifically:

- Added direction for testing push & pull on rubber squeaker toys when required.
- Added direction to test glass, wood and metal for hazards (instead of only plastic) after reasonable use

Reference: CCPSA Toys Regulations (SOR/2011-17), Health Canada Product Safety Laboratory (Test Methods)

*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.*

# RESTRICTED SUBSTANCES AND HAZARDOUS COMPONENTS TESTING FOR CHILDREN'S PRODUCTS (Independent Client Requirements)

SAMPLE 3D Reels and Viewers (Canada)**I. CANADA TESTING RECOMMENDATION**

*This worksheet is a supplement and must accompany the applicable product specific worksheet*

**Note 1:** Canada regards products intended for use by a child in learning or play as toys. Wherever the term "toys" is used on this worksheet, it also includes products for used by a child in learning or play.

**Note 2:** All products shall be tested according to either the appropriate age grade (as determined by the test lab) or the labeled age grade (if the labeled age grade is more stringent). In the event the sample is not age labeled, the test lab shall determine the appropriate age grade and test accordingly.

Labeled Age: Not labeledTested Age: 3+

RATING

COMMENTS

**Accessible Substrates - Lead Content** (based on Canada Lead Risk Reduction Strategy)

*Applies to accessible substrates of children's products, that are not covered by the Consumer Products Containing Lead Regulations*

*This is a recommended test based on Canada's Lead Risk Reduction and will be performed unless client indicates not to test.*

Product meets one of the following:

X-Ray Fluorescence (XRF) prescreening indicates a lead level 0.0420% (420-ppm; 420-mg/kg) or less for accessible substrates

--- Y/N**OR**

Lead content of accessible substrates, sampled from the finished product do not exceed 0.06% (600 ppm, 600 mg/kg)

--- Y/N

*N/A - Product covered under the Consumer Products Containing Lead Regulations*

**II. CANADA TOYS REGULATIONS****TOYS REGULATIONS - (Toys and other articles intended for use by a child in learning or play)**

Toys and other articles intended for use by a child in learning or play meet the requirements of the Canada Toy worksheet (7-7CAIC) & the requirements of this section.

RATING

COMMENTS

Pass

	RATING	COMMENTS
<b>Liquids, Putties, Pastes, Granules, Gels &amp; Powders-Specific Toxic Substances (SOR 2011-17 § 22 a-g)</b>		
<i>Applicable to toys that include or are liquids, putties, pastes, granules, gels or powder which are accessible or, if under reasonably foreseeable circumstances, could become accessible to a child. AND Liquid, putty, paste, granule, gel or powder filled toys, if the filler could be released upon breakage or leakage.</i>		
Third Party Test report indicates the toy does not contain any of the following toxic substances that are accessible as received, or if they could under reasonably foreseeable circumstances become accessible to a child, or if they could be released upon breakage or leakage:	---	N/A - No applicable materials
Test Report Date (recommend dated within 1 year) ---		
(a) carbon tetrachloride or any substance that contains it;		
(b) methyl alcohol or any substance that contains >1.0% weight to volume of methyl alcohol;		
(c) petroleum distillates or any substance that contains >10% weight to volume of petroleum distillates;		
(d) benzene;		
(e) turpentine or any substance that contains >10% weight to volume of turpentine;		
(f) boric acid or salts of boric acid; or		
(g) ethyl ether		
<b>Surface Coatings - Total Lead Content (SOR 2011-17 § 23a)</b>		
<i>Applies to surface coatings on Toys &amp; Other Articles intended for use in learning or play - reference CCPSA Toys Regulations</i>		
Testing indicates the lead content of the product's surface coating(s) do not exceed 0.009% (90 ppm, 90 mg/kg)	Pass	Reference ARHL0801856
<b>Surface Coatings - Soluble Heavy Metals (SOR 2011-17 § 23b)</b>		
<i>Applies to toys, equipment, and other products for use by a child in learning or play.</i>		
Soluble (leachable / migratable) heavy metals testing indicates that compounds in surface coating(s) removed from the product do not exceed below limits:	Pass	Reference ARHL0801856
Antimony 0.1% (1000 ppm, 1000 mg/kg)		
Arsenic 0.1% (1000 ppm, 1000 mg/kg)		
Barium 0.1% (1000 ppm, 1000 mg/kg)		
Cadmium 0.1% (1000 ppm, 1000 mg/kg)		
Selenium 0.1% (1000 ppm, 1000 mg/kg)		
<b>Surface Coatings - Total Mercury Content (SOR 2011-17 Item 23c)</b>		
<i>Applies to toys, equipment, and other products for use by a child in learning or play.</i>		
Testing indicates the surface coating(s) contain less than 0.001% (10-ppm, 10-mg/kg) Mercury	Pass	See attached report for details

	RATING	COMMENTS
<b>Organic Solvent Content of Balloon Blowing Products (SOR 2011-17 § 24)</b>		
Product meets one of the following:	---	N/A - Not a balloon blowing kit
Third Party test report indicates that the product does not contain aromatic, aliphatic or any other organic solvent, where the solvent or any vapour therefrom may, during, or as a result of normal use of the product, be released directly into the mouth		
Test Report Date (recommend dated within 1 year)      ---		N/A - Not a balloon blowing kit
OR		N/A - Not a balloon blowing kit
The blowing tube provides a one-way valve that does not allow the vapor to come back into the mouth, and no other hazards are evident		
--- Y/N		N/A - Not a balloon blowing kit
<b>Liquids, Putties, Pastes, Granules, Gels &amp; Powders - General Requirements (SOR 2011-17 § 25 &amp; 26)</b>		
Applicable to toys that include or are liquids, putties, pastes, granules, gels or powder which are accessible or, if under reasonably foreseeable circumstances, could become accessible to a child. AND Liquid, putty, paste, granule, gel or powder filled toys, if the filler could be released upon breakage or leakage. This is also required for all children's art material solid media (including crayons, watercolors etc.)		
Third Party Toxicological Risk Assessment (TRA) , is submitted for all products described above. The report indicates one of the following conditions: (Dated within 5 years)		
The TRA indicates the product does not present any toxicity hazard(s) (Oral Toxin, Skin or Eye irritant, etc.)	---	N/A - No applicable materials
Test Report Date (recommend dated within 1 year)      ---		
OR		
For product in which the TRA indicates hazard labeling is required, or that it presents oral or dermal toxicity hazards, the TRA must be reviewed by the Regulatory Compliance team to determine if the toy is permitted under the requirements of section 25 & 26 of the Toys Regulations, and / or if additional documentation is required. If permitted, the toy must be tested to the applicable requirements of the Hazardous Chemicals worksheet supplement 1-4CA (attached)		
---		

	RATING	COMMENTS
<b>Prohibited Heavy Metals in Plastic (SOR 2011-17 Item 27 a)</b> <i>Applies to plastic material that is contained in products used by a child in learning or play (Canada toys) that is likely to be used by a child of &lt; 3 years of age</i>  Testing indicates the plastic materials comply with the heavy metal content requirements of ASTM F963-16/17 for antimony, barium, cadmium, chromium, mercury and selenium.	---	N/A - Tested for ages 3+
<b>Other Prohibited Substances in Plastic (SOR 2011-17 §27 b)</b> <i>Applies to plastic material that is contained in a toy that is likely to be used by a child of &lt; 3 years of age</i>  Third Party test report indicates that plastic materials do not contain the following substances, in excess of the indicated limits:  <i>Test Report Date</i> <i>(recommend dated within 1 year)</i> ---	---	N/A - Tested for ages 3+
(a) carbon tetrachloride or any substance that contains it; (b) methyl alcohol or any substance that contains >1.0% (c) petroleum distillates or any substance that contains >10% weight to volume of petroleum distillates; (d) benzene; (e) turpentine or any substance that contains >10% weight to volume of turpentine; (f) boric acid or salts of boric acid; or (g) ethyl ether		
<b>III. SURFACE COATING MATERIALS REGULATIONS</b>		
	RATING	COMMENTS
<b>Product with Applied Surface Coatings - Total Lead Content (SOR 2016-193 § 6)</b> <i>Applies to surface coatings on products for children (other than toys), including Furniture; &amp; Pencils &amp; Artists brushes reference CCPSA Surface Coating Materials Regulations</i>  Testing of the surface coating(s) removed from the product indicate lead content(s) do not exceed 0.009% (90-ppm, 90-mg/kg)	---	N/A - Children's product without surface coatings
<b>Surface Coating Materials Applied by the Consumer - Total Lead Content (SOR 2016-193 § 2)</b> <i>Applicable to surface coating materials that are applied by the consumer, for example paint or other similar material, with or without pigment, that dries to a solid film after applied to a surface, but not to materials that become part of the substrate (i.e. ink, stains etc.)</i>  Testing of surface coating material(s) indicates the lead content does not exceed 0.009% (90 ppm, 90 mg/kg)	---	N/A - No applicable materials

	RATING	COMMENTS
<b>Surface Coating Materials Applied by the Consumer - Total Mercury Content (SOR 2016-193 §5)</b>		
<p><i>Applicable to surface coating materials that are applied by the consumer, for example paint or other similar material, with or without pigment, that dries to a solid film after applied to a surface, but not to materials that become part of the substrate (i.e. ink, stains etc.)</i></p> <p>Testing of surface coating material(s) indicates the Mercury content does not exceed 0.001% (10-ppm, 10-mg/kg)</p>	---	N/A - No applicable materials
<b>IV. CONSUMER PRODUCTS CONTAINING LEAD REGULATIONS (SOR/2018-83)</b>		
<b>Accessible Substrates - Lead Content</b>		
<p><i>Applies to :</i></p> <p>(a) a product that is intended for use in learning or play by a child under 14 years of age;</p> <p>(b) a product that is brought into contact with the user's mouth during normal use, except for kitchen utensils, or products subject to the Glazed Ceramics and Glassware Regulations;</p> <p>(c) any clothing or clothing accessory that is intended for use by a child under 14 years of age;</p> <p>(d) a book or similar printed product that is intended for a child under 14 years of age, except if it is printed on paper or cardboard, and printed and bound in a conventional manner using conventional materials;</p> <p>(e) a product whose primary purpose is to facilitate the relaxation, sleep, hygiene, carrying or transportation of a child under four years of age. (note that this definition is not the same as child care articles)</p> <p>Also test Children's Art material products such as crayons, chalk, modeling clay, paints; referencing the Canada Consumer Product Safety Act Quick Reference Guide, if not already covered in (a) above.</p>		
<p>Product meets one of the following:</p> <p>X-Ray Fluorescence (XRF) prescreening indicates a lead level of 0.0063% (63 ppm) or less for any accessible substrate / base material</p> <p>--- Y/N</p> <p><b>OR</b></p> <p>Lead content of all accessible substrates / base materials, sampled from the finished product do not exceed 0.009% (90-ppm, 90-mg/kg) total lead content</p> <p>Yes Y/N</p>	Pass	Reference ARHL0801856

**V. PHTHALATES REGULATIONS****PHTHALATES IN VINYL COMPONENTS - (SOR 2016-188 Item 2)**

*Applicable to Toys and Child Care Articles constructed in whole or in part of vinyl.*

*Child care articles are products that are intended to facilitate the relaxation, sleep, hygiene, feeding, sucking or teething of a child under four years of age*

**Pre-Screen Test for Presence of PVC**

Polymeric components of toys and child care articles are pre-screened to determine the presence of PVC by XRF / FTIR scan (see chemistry data sheet for details).

*Components determined to be PVC (vinyl) are then tested to determine compliance with the following Phthalates Regulations requirements.*

**Phthalates Testing of Vinyl (PVC) Components**

All Toys and Child Care Articles that are determined to contain vinyl (PVC) components through pre-screening method above, are required to meet the Phthalates Regulations as indicated below.

The vinyl (PVC) in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under 4 years of age, shall contain no more than 0.1% (1000-ppm, 1000-mg/kg) of each of the below phthalates

DINP (Diisononyl Phthalate)

**Pass**[Reference ARHL0801856](#)

DIDP (Diisodecyl Phthalate)

**Pass**

DnOP (Di-n-Octyl Phthalate)

**Pass**

DEHP (Di(2-ethylhexyl) phthalate)

**Pass**

BBP (Benzyl Butyl Phthalate)

**Pass**

DBP (Dibutyl Phthalate)

**Pass**

All other vinyl components used in Toys or Child Care Articles shall contain no more than 0.1% (1000-ppm, 1000-mg/kg) of each of the following phthalates

DEHP (Di(2-ethylhexyl) phthalate)

**Pass**[Reference ARHL0801856](#)

BBP (Benzyl Butyl Phthalate)

**Pass**

DBP (Dibutyl Phthalate)

**Pass**

**VI. ASBESTOS PRODUCTS REGULATIONS****Asbestos - Products used in Modeling & Sculpture (SOR/2018-196)***Applicable to children's modeling & sculpture products*

Third Party test report indicates that children's art material media used in modelling and sculpture contain no detectable presence of any type of asbestos (including actinolite, amosite, anthophyllite, chrysolite, crocidolite, cummingtonite, tremolite).

RATING

COMMENTS

---

N/A - Not a modeling or sculpture material

**Asbestos - Children's Products (SOR/2018-196)**

Applicable to components of children's products that are suspected could contain asbestos (for example, art material media other than sculpture / modeling materials, play sand, powders, heat insulating materials), OR as requested by the client.

Third Party test report indicates no presence of asbestos in products described above, or as requested by the client.

Test Report Date

(recommend dated within 1 year)

---

N/A - No applicable materials

**Note:** The present Asbestos Regulations allow non-crocidolite asbestos for this requirement as long as it cannot become separated from the product. CTL cannot evaluate "separation" as no criteria is provided. CTL recommends No presence of asbestos for these products as Health Canada has indicated they will ban asbestos in 2018.

**VII. CANADA CONSUMER PRODUCT SAFETY ACT (CCPSA)****TCEP / TRIS Restriction SC2010, c. 21 Schedule 2, Item 16**

**Note:** Applies to children's products intended for children under 3 years of age, that are made, in whole or in part, of Polyurethane Foam (PU Foam)

Testing indicates the Tris(2-chloroethyl) phosphate (TCEP); 115-96-8 content in foam components does not exceed 0.005% (50 ppm)

RATING

COMMENTS

---

N/A - No polyurethane foam

**Viable Microorganisms - Baby Products (based on CCPSA SC2010, c. 21 Schedule 2 Item 4)**

Applicable to all products for babies, including teethingers, pacifiers and baby bottle nipples that contain a filling, and that are put in the mouth when used.

**Note:** Applicable to all products intended for babies that include liquids, putties, powders and gels

**USP 71 Sterility Testing**

Third Party testing indicates all filler materials meet the Sterility requirements of USP 71

Test Report Date

(recommend dated within 1 year)

---

N/A - Not a baby product with a filling

**VIII. CANADA CONSUMER CHEMICALS & CONTAINERS REGULATIONS (SOR/2001-269)**

	RATING	COMMENTS
<p><i>This section applies to ANY product that contains a chemical that is regulated under the Consumer Chemicals and Containers Regulation in Canada. (including toys, art materials and children's products)</i></p>		
<p><b><u>Flammability of Liquids (does not include pastes or gels under CCCR)</u></b></p> <p><i>Flammability of liquids requirements includes liquids in non-pressurized spray containers.</i></p> <p><i>Flammability testing is performed in order to provide a general review of product cautionary labeling for flammable / combustible liquids.</i></p> <p>Testing of the liquid(s) in accordance with the method outlined in CCCR 2001 indicates the following flash point</p> <p><b>Note:</b> CTL can offer testing to ASTM D3828 only. If the CCCR requires testing to ASTM D93 (based on product's viscosity), the client must be contacted to determine if this test will be sub-contracted.</p> <p style="text-align: right;">Flash Point: <u>---</u></p> <p>Test Report Date (recommend dated within 1 year) <u>---</u></p>	---	N/A - No accessible liquids
<p><b><u>Flammability Restriction for Children's Liquids</u></b></p> <p>Accessible liquids which are age graded for children under 14 years of age should not have a flashpoint lower than 140°F (60°C)</p>	---	N/A - No accessible liquids
<p><b><u>Flammability of Solids, Pastes and Gels</u></b></p> <p>Third party test report indicates the following solid flammability (flashpoint) test result. Test must be conducted in accordance with ASTM D56</p> <p>Test Report Date (recommend dated within 1 year) <u>---</u></p>	---	N/A - No solids, pastes, or gels
<p><b><u>Flammability Restriction for Children's Solids, Pastes &amp; Gels</u></b></p> <p>Chemical products (solids, pastes or gels) which are age graded for children under 14 years of age should not have a flashpoint lower than 140°F (60°C)</p>	---	N/A - No solids, pastes, or gels
<p><b><u>Flammability of Self-Pressurized Containers</u></b></p> <p>Third party test report indicates the Flame projection and Flashback test results for all self-pressurized containers</p> <p>Test Report Date (recommend dated within 1 year) <u>---</u></p>	---	N/A - No self-pressurized containers

	RATING	COMMENTS
<b>Flammability Restriction for Children's Self-Pressurized Containers</b>		
Chemical products for children under 14 years of age, which are packaged in self pressurized containers should not be classified as Very Flammable, or as Flammable	---	<i>N/A - No self-pressurized containers</i>

**IX. CONCLUSIONS****OVERALL RATING****PASS**

Latest Change:      Changed TRA report to 5 years.  
02/07/20

Reference Material:    Canada Consumer Products Safety Act and Regulations

*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.*

# Analytical Chemistry Report

ARHL0802275

## Test Summary

Specification / Test Type	Result
1) Leachable Heavy Metals for Canadian Surface Coatings	Pass

## Component List

Component	Description
1	Paint - black
2	Paint - brown
3	Paint - orange
4	Paint - white
5	Paint - red
6	Paint - green
7	Paint - blue
8	Paint - yellow

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

## Test Data

### 1) Leachable Heavy Metals for Canadian Surface Coatings

Test Method: Leachable Arsenic (As), Selenium (Se), Cadmium (Cd), Antimony (Sb), and Barium (Ba) were determined according to method C-03, Health Canada Product Safety Laboratory, Book 5 - Laboratory Policies and Procedures, Part B

Component	As	Se	Cd	Sb	Ba	Rating
1	$< 4.1 \times 10^{-4}$	$(2.5 \pm 5.2) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass
2	$< 4.1 \times 10^{-4}$	$(1.3 \pm 0.1) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass
3	$< 4.1 \times 10^{-4}$	$(1.3 \pm 0.1) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass
4	$< 4.1 \times 10^{-4}$	$(1.3 \pm 0.1) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass
5	$< 4.1 \times 10^{-4}$	$(2.6 \pm 5.5) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass
6	$< 4.1 \times 10^{-4}$	$(1.2 \pm 0.2) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass
7	$< 4.1 \times 10^{-4}$	$(1.1 \pm 0.3) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass
8	$< 4.1 \times 10^{-4}$	$(1.1 \pm 0.1) \times 10^{-3}$	$< 4.6 \times 10^{-4}$	$< 1.4 \times 10^{-3}$	$< 1.5 \times 10^{-3}$	Pass

Note: Results are expressed as percent (%), by weight.  
Regulatory limit is 0.1% for each analyzed element.

† - 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