

TOYS - PROJECTILE TOYS

Number: BURL-039
 Creation Date: 12/19/2017
 Revision Date: 5/15/2018
 Created by: Legal Dept.

TEST DESCRIPTION	REGULATION/TEST METHOD	REQUIREMENTS		
MANDATORY				
Label Verification	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (city, state & zip)		
		Product Identification		
		Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).		
Tracking labels for children's products	Consumer Product Safety Improvement Act of 2008	A permanent and distinguishing mark on the product and its packaging, to the extent practicable, enabling the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product.		
Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and incomparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.		
Age Grading	ASTM F963-current version	<ul style="list-style-type: none"> The toy shall be labelled to indicate the minimum age for intended use, or have such labelling on any retail packaging. For certain toys, such as costumes and riding toys, it may also be appropriate to label in terms of height or weight limitations. 		
Total Lead Content of Paints or Similar Surface Coating	16 CFR 1303	≤90ppm		
Illinois lead content in surface coatings	Illinois Lead Poisoning Prevention Act	≤40ppm		
Total Lead Content of Accessible Component Part	CPSIA of 2008 Section 101	≤100 ppm		
Soluble Heavy Metals Content	ASTM F963-current version	Antimony (Sb) 60, Arsenic (As) 25, Barium (Ba) 1000, Cadmium (Cd) 75, Chromium (Cr) 60, Lead (Pb) 90, Mercury (Hg) 60, Selenium (Se) 500		
Mechanical hazard - abuse testing - for toys for children up to 96 months	ASTM F963-current version 16 CFR 1500.50-53)	Report Components Tested.		
		Report component breakage or failure.		
		Requirement: No sharp edges /sharp points and small part.		
		Test	Age (months)	Force
		Drop test	0-18	10 × 4.5 ft ± 0.5 in.
			Over 18 - 36	4 × 3.0 ft ± 0.5 in.
			Over 36 - 96	4 × 3.0 ft ± 0.5 in.
		Torque test	0-18	2 ± 0.2 in.lbf
			Over 18 - 36	3 ± 0.2 in.lbf
			Over 36 - 96	4 ± 0.2 in.lbf
		Tension Test	0-18	10 ± 0.5 lbf
			Over 18 - 36	15 ± 0.5 lbf
			Over 36 - 96	15 ± 0.5 lbf
		Compression test	0-18	20 ± 0.5 lbf
Over 18 - 36	25 ± 0.5 lbf			
Over 36 - 96	30 ± 0.5 lbf			
Flexure test	0-18	10 ± 0.5 lbf		
	Over 18 - 36	15 ± 0.5 lbf		
	Over 36 - 96	15 ± 0.5 lbf		

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Phthalates	CPSIA sect. 108 Test method: CPSC-CH-C1001-09.3	<ul style="list-style-type: none"> - DEHP, DBP or BBP (For accessible plasticized material) Each ≤ 0.1% (1000 ppm) - DIDP, DINP or DNOP (For accessible plasticized material that can be placed in a child's mouth) Each ≤ 0.1% (1000 ppm) <p>Starting on 25-Apr-2018:</p> <p>8 Phthalates DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, DCHP Each ≤ 0.1%</p> <p>Exempted Plastics:</p> <ul style="list-style-type: none"> - Polypropylene (PP) - Polyethylene (PE) - Acrylonitrile Butadiene Styrene (ABS) - High impact polystyrene (HIPS) - Crystal and general-purpose polystyrene - Medium-impact polystyrene (MIPS) - Super-high-impact polystyrene (SHIPS)
Small Parts	16 CFR 1501	Toys intended for children under 36 months (3 years) of age shall not include removable, liberated components, or fragments of toys before or after use and abuse
Accessible Sharp Points / Sharp Edges	16 CFR 1500.48/49	Shall not contain any hazardous sharp edges before and after use and abuse tests, if intended for children under 8 years of age.
California Prop 65	Warning label or applicable testing	In lieu of warning label, product should meet all applicable Prop 65 requirements.
Flammability	ASTM F963-current ver. 16 CFR 1500.44	Less Than 0.1"/Sec.
Projectile Toys	ASTM F963-current version	<p>If kinetic energy of a rigid projectile exceeds 0.08 impact surface(s) must have resilient material.</p> <ul style="list-style-type: none"> - No sharp points, edges, or small parts; - Minimum tip radius 0.08 in. - Shall not launch if protective tip is removed. - Any arrow must have a compliant protective tip. - Discharge mechanism shall be unable to discharge potentially hazardous improvised projectiles (e.g. pencils or pebbles) without user modification.
MANDATORY STATES REGULATIONS		
Total heavy metals in packaging	Toxics in Packaging Clearinghouse (TPCH)	Packaging shall not contain the sum of mercury, cadmium, lead and chromium (VI) in concentration above 0.01% by weight.
Plastic Bag Warnings	Various state laws	<p>Plastic bags with a thickness of less than 1 mil (0.001 inch) having an opened end larger than 5 inches in diameter shall contain the following warning statement or equivalent:</p> <p>WARNING: To avoid danger of suffocation, keep this plastic bag away from babies and children. Do not use this bag in cribs, beds, carriages or playpens. This bag is not a toy.</p>
Flame Retardants	Various state laws	<p>Not Detected.</p> <p>Polybrominated biphenyls (PBBs), Penta-bromodiphenyl ether (pentaBDE) Octa-bromodiphenyl ether (octaBDE) Tris (2,3-dibromopropyl) phosphate (TRIS) Decabromodiphenyl ether (DecaBDE) Tris(2-chloroethyl) phosphate (TCEP) Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)</p>



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Washington lead, cadmium and phthalates on children's product	Washington Children's Safe Products Act (CSPA)	≤40 ppm Cadmium; ≤90 ppm Lead; ≤1000 ppm Phthalates (combined).															
New York Toxic chemicals in children's products	The Toxic Free Toys Act (Albany, Suffolk County)	<table border="1"> <thead> <tr> <th data-bbox="771 367 1110 394">Compound</th> <th data-bbox="1110 367 1382 394">Max. levels in ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="771 394 1110 430">Antimony</td> <td data-bbox="1110 394 1382 430">60 (soluble)</td> </tr> <tr> <td data-bbox="771 430 1110 466">Arsenic</td> <td data-bbox="1110 430 1382 466">25 (soluble)</td> </tr> <tr> <td data-bbox="771 466 1110 501">Cadmium</td> <td data-bbox="1110 466 1382 501">75 (soluble)</td> </tr> <tr> <td data-bbox="771 501 1110 537">Lead in surface coating</td> <td data-bbox="1110 501 1382 537">90 (soluble)</td> </tr> <tr> <td data-bbox="771 537 1110 573">Lead in substrates</td> <td data-bbox="1110 537 1382 573">100 (total)</td> </tr> <tr> <td data-bbox="771 573 1110 596">Mercury</td> <td data-bbox="1110 573 1382 596">60 (Soluble)</td> </tr> </tbody> </table>	Compound	Max. levels in ppm	Antimony	60 (soluble)	Arsenic	25 (soluble)	Cadmium	75 (soluble)	Lead in surface coating	90 (soluble)	Lead in substrates	100 (total)	Mercury	60 (Soluble)	
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