

TOYS - BATTERY OPERATED TOYS

Number: BURL-033
 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.
Mercury Content in Batteries	Battery Act, US Public Law 104-142	Alkaline-manganese batteries, alkaline-manganese button cell batteries, zinc-carbon batteries, mercuric-oxide button cell batteries shall conform to respective requirements.
Labeling for Battery-Operated Toys	ASTM F963-current version	<ul style="list-style-type: none"> - Toys with non-replaceable batteries that are accessible with the use of coin, screwdriver or other common household tool shall bear a statement that the battery is not replaceable. - If it is impractical to label the product, this information shall be placed on the packaging or in the instruction.
Battery - Safety	UN 38.3	Related requirements are intended to address potential risks of injury associated with battery usage in toys (for example, battery overheating, leakage, explosion and fire)
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	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: 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.
Flame Retardants	Various state laws	Not Detected. 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)



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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="764 359 1117 394">Compound</th> <th data-bbox="1117 359 1515 394">Max. levels in ppm</th> </tr> </thead> <tbody> <tr> <td data-bbox="764 394 1117 430">Antimony</td> <td data-bbox="1117 394 1515 430">60 (soluble)</td> </tr> <tr> <td data-bbox="764 430 1117 466">Arsenic</td> <td data-bbox="1117 430 1515 466">25 (soluble)</td> </tr> <tr> <td data-bbox="764 466 1117 501">Cadmium</td> <td data-bbox="1117 466 1515 501">75 (soluble)</td> </tr> <tr> <td data-bbox="764 501 1117 537">Lead in surface coating</td> <td data-bbox="1117 501 1515 537">90 (soluble)</td> </tr> <tr> <td data-bbox="764 537 1117 573">Lead in substrates</td> <td data-bbox="1117 537 1515 573">100 (total)</td> </tr> <tr> <td data-bbox="764 573 1117 592">Mercury</td> <td data-bbox="1117 573 1515 592">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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