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is parallel to the surface under test. A direct force of 25 pounds ±0.5 pound (11.4 kilograms) shall be evenly applied within 5 seconds through the disc. This load shall be maintained for an additional 10 seconds. During the test the toy is to rest on a flat, hard surface in any convenient position.

§ 1500.53 Test methods for simulating use and abuse of toys and other articles intended for use by children over 36 but not over 96 months of age.

(a) Application. The test methods described in this section shall be used to simulate the normal and reasonably foreseeable use, damage, or abuse of toys and other articles intended for use by children over 36 but not over 96 months of age in conjunction with § 1500.18.

(b) Impact test—(1) Application. Except as provided in paragraph (b)(4) of this section, toys having a weight of less than 10.0 pounds ±0.01 pound (4.6 kilograms) shall be subject to this test.

(2) Impact medium. The impact medium shall consist of a ¼-inch (0.3-cen
timeter) nominal thickness of type IV vinyl-composition tile, composition 1—asbestos free, as specified by paragraphs 1.2 and 3.1.4 of Interim Amendment-1(YD), dated November 14, 1979, to the Federal Specification entitled Tile, Floor: Asphalt, Rubber, Vinyl, Vinyl-Asbestos, SS-T-312B, dated October 10, 1974, 1 over at least a 2.5-inch (6.4-centimeter) thickness of concrete. The impact area shall be at least 3 square feet (0.3 square meter). The Commission recognizes that this specified impact medium is the equivalent of, and will yield the same impact test results as, a surface covered with vinyl-asbestos tile meeting the requirements of Federal Specification SS-T-312A.

(3) Testing procedure. Except as provided in paragraph (b)(4) (i) and (ii) of this section, the toy shall be dropped four times from a height of 3 feet ±0.5 inch (0.92 meter) onto the impact medium described in paragraph (b)(2) of this section. The toy shall be dropped in random orientation. After each drop, the test sample shall be allowed to come to rest and shall be examined and evaluated before continuing.

(4) Large and bulky toys. (i) A toy that has a projected base area of 400 or more square inches (2,660 or more square centimeters) shall be tested for impact in according with paragraph (b)(4)(ii) of this subsection. The base area for toys having permanently attached legs shall be measured by calculating the area enclosed by straight lines connecting the outermost edge of each leg of the perimeter.

(ii) A toy that has a volume of more than 3 cubic feet (0.085 cubic meter), calculated by the major dimensions without regard to minor appendages, shall be tested for impact in accordance with paragraph (b)(4)(ii) of this section.

(iii) The toys described in paragraph (b)(4) (i) and (ii) of this section shall be tested for impact by tipping them over three times by pushing the samples slowly past their centers of balance onto the impact medium described in paragraph (b)(2) of this section.

(c) Bite test—(1) Application. A toy (or component) that is a mouth toy shall be subject to this test.

(2) Test equipment—(i) Contact mechanism. The contact mechanism shall be two metal strips or plates each measuring 0.25 inch ±0.002 inch (0.635 centimeter) high and each having a contact edge radius of 0.020 inch ±0.002 inch (0.5 centimeter) for at least a 150-degree cross-sectional arc. A suggested contact mechanism appears in figure 1 of § 1500.51.

(ii) Loading device. The loading device shall be a scale or force gauge having an accuracy of ±0.5 pound (±225 grams).

(3) Testing procedure. The test article shall be placed in the contact mechanism in any reasonable position for a penetration of 0.25 to 0.5 inch (0.64 to 1.27 centimeters), which position utilizes less than 180 degrees of the arc of the contract mechanism, and a test load increasing to 100 pounds ±0.5 pound (45.50 kilograms) shall be evenly applied within 5 seconds. This load shall be maintained for an additional 10 seconds.

(d) Flexure test—(1) Application. This test shall be applied to each component of a toy containing metal wire(s), or
other metal material(s), for stiffening or for retention of form if the com-
ponent can be bent through a 60-degree arc by a maximum force of 15 pounds ±0.5 pound (6.80 kilograms) applied per-
pendicularly to the major axis of the com-
ponent at a point 2 inches ±0.06 inch (5 centimeters) from the intersec-
tion of the component with the main body of the toy or at the end of the component if the component is less than 2 inches ±0.05 inch (5 centimeters) long.

(2) Testing procedure. The toy shall be secured in a vise equipped with vise shields that are fabricated from 13-gauge cold-rolled steel or other similar material and that have a 0.375-inch (0.95-centimeter) inside radius. The component shall then be bent through a 60-degree arc by a force applied at a point on the component 2 inches (5 centimeters) from the intersection of the component with the main body of the toy or applied at the end of the compo-

nent if the component is less than 2 inches (5 centimeters) long. The com-
ponent shall then be bent in the re-
verse direction through a 120-degree arc. This process shall be repeated for 30 cycles at a rate of one cycle per two seconds with a 60-second rest period oc-
curring after each 10 cycles. Two 120-

degree arc bends shall constitute one cycle.

(e) Torque test—(1) Application—(i) General. Any projection of a toy that the child can grasp with at least the thumb and forefinger or the teeth shall be subject to this test. This test is to be conducted on the same toy that has been subjected to the torque test de-
scribed in paragraph (e) of this section.

(ii) Stuffed toys and beanbags. A stuffed toy or beanbag constructed of pliable materials having seams (such as fabrics) shall have the seams subjected to 15 pounds ±0.5 pound (6.80 kilograms) of force applied in any di-
rection.

(2) Test equipment—(i) Clamps. One clamp capable of applying a tension load to the test component is required. A second clamp suitable for applying a tension load perpendicularly to the major axis of the test component is also required.

(ii) Loading device. The loading device is to be a self-indicating gauge or other appropriate means having an accuracy of ±0.5 pound (±225 grams).

(3) Testing procedure. With the test sample fastened in a convenient posi-
tion, and appropriate clamp shall be at-
tached to the test object or component. A 15-pound ±0.5 pound (6.80-kilogram) direct force shall be evenly applied, within a period of 5 seconds, parallel to the major axis of the test component and maintained for an additional 10 seconds. The tension clamp shall then be removed and a second clamp appropriate for pulling at 90 degrees shall be attached to the test object or compo-
nent. A 15-pound ±0.5 pound (6.80-kilo-
gram) tensile force shall be evenly ap-
plied, within a period of 5 seconds, per-
pendicularly to the major axis of the
(g) Compression test—(1) Application. Any area on the surface of a toy that is accessible to a child and inaccessible to flat-surface contact during the impact test shall be subject to this test.

(2) Test apparatus. The loading device shall be a rigid metal disc 1.125 inches ±0.015 inch (2.86 centimeters) in diameter and 0.375 inch (0.95 centimeter) in thickness. The perimeter of the disc shall be rounded to a radius of 1/32 inch (0.08 centimeter) to eliminate irregular edges. The disc shall be attached to an appropriate compression scale having an accuracy of ±0.5 pound (±225 grams).

(3) Testing procedure. The disc shall be positioned so that the contact surface is parallel to the surface under test. A direct force of 30 pounds ±0.5 pound (13.6 kilograms) shall be evenly applied within 5 seconds through the disc. This load shall be maintained for an additional 10 seconds. During the test the toy is to rest on a flat, hard surface in any convenient position.

§ 1500.81 Exemptions for food, drugs, cosmetics, and fuels.

(a) Food, drugs, and cosmetics. Substances subject to the Federal Food, Drug, and Cosmetic Act are exempted by section 2(f)(2) of the act; but where a food, drug, or cosmetic offers a substantial risk of injury or illness from any handling or use that is customary or usual it may be regarded as misbranded under the Federal Food, Drug, and Cosmetic Act because its label fails to reveal material facts with respect to consequences that may result from use of the article (21 U.S.C. 321(n)) when its label fails to bear information to alert the householder to this hazard.

(b) Fuels. A substance intended to be used as a fuel is exempt from the requirements of the act when in containers that are intended to be or are installed as part of the heating, cooling, or refrigeration system of a house. A portable container used for delivery or temporary or additional storage, and containing a substance that is a hazardous substance as defined in section 2(q) of the act, is not exempt from the labeling prescribed in section 2(p) of the act, even though it contains a fuel to be used in the heating, cooking, or refrigeration system of a house.

§ 1500.82 Exemption from full labeling and other requirements.

(a) Any person who believes a particular hazardous substance intended or packaged in a form suitable for use in the household or by children should be exempted from full label compliance otherwise applicable under the act, because of the size of the package or because of the minor hazard presented by the substance, or for other good and sufficient reason, may submit to the Commission a request for exemption under section 3(c) of the act, presenting facts in support of the view that full compliance is impracticable or is not necessary for the protection of the public health. The Commission shall determine on the basis of the facts submitted and all other available information whether the requested exemption is consistent with adequate protection of the public health and safety. If the Commission so finds, it shall detail the exemption granted and the reasons therefor by an appropriate order published in the FEDERAL REGISTER.

(b) The Commission may on its own initiative determine on the basis of facts available to it that a particular hazardous substance intended or packaged in a form suitable for use in the household or by children should be exempted from full label compliance otherwise applicable under the act because of the size of the package or because of the minor hazard presented by the substance or for other good and sufficient reason. If the Commission so finds, it shall detail the exemption granted and the reasons therefor by an appropriate order in the FEDERAL REGISTER.

(c) Any person who believes a particular article should be exempted from being classified as a "banned hazardous substance" as defined by section 2(q)(1)(A) of the act (repeated in §1500.3(b)(15)(i)(A)), because its functional purpose requires inclusion of a hazardous substance, it bears labeling giving adequate directions and warnings for safe use, and it is intended for use by children who have attained sufficient maturity, and may reasonably