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conform to §160.180, with such precautions that the finished food is free of viable *Salmonella* microorganisms. Before drying, the glucose content of the liquid egg yolks may be reduced by one of the optional procedures set forth in paragraph (b) of this section. Either silicon dioxide complying with the provisions of §172.480 of this chapter or sodium silicoaluminate may be added as an optional anticaking ingredient, but the amount of silicon dioxide used is not more than 1 percent and the amount of sodium silicoaluminate used is less than 2 percent by weight of the finished food. The finished food shall contain not less than 95 percent by weight total egg solids.

(b) The optional glucose-removing procedures are:

(1) *Enzyme procedure.* A glucose-oxidase-catalase preparation and hydrogen peroxide solution are added to the liquid egg yolks. The quantity used and the time of reaction are sufficient to substantially reduce the glucose content of the liquid egg yolks. The glucose-oxidase-catalase preparation used is one that is generally recognized as safe within the meaning of section 201(s) of the Federal Food, Drug, and Cosmetic Act. The hydrogen peroxide solution used shall comply with the specification of the United States Pharmacopeia, except that it may exceed the concentration specified therein and it does not contain a preservative.

(2) *Yeast procedure.* The pH of the liquid egg yolks is adjusted to the range of 6.0 to 7.0, if necessary, by the addition of dilute, chemically pure hydrochloric acid, and controlled fermentation is maintained by adding food-grade baker's yeast (*Saccharomyces cerevisiae*). The quantity of yeast used and the time of reaction are sufficient to substantially reduce the glucose content of the liquid egg yolks.

(c) The name of the food for which a definition and standard of identity is prescribed by this section is "Dried egg yolks", or "Dried yolks", and if the glucose content was reduced, as provided in paragraph (b) of this section, the name shall be followed immediately by the statement "Glucose removed for stability" or "Stabilized, glucose removed".

(d)(1) When either of the optional anticaking ingredients specified in paragraph (a) of this section is used, the label shall bear the statement "Not more than 1 percent silicon dioxide added as an anticaking agent" or "Less than 2 percent sodium silicoaluminate added as an anticaking agent", whichever is applicable.

(2) The name of any optional ingredient used, as provided in paragraph (d)(1) of this section, shall be listed on the principal display panel or panels of the label with such prominence and conspicuousness as to render such statement likely to be read and understood by the ordinary individual under customary conditions of purchase.

(e) *Label declaration.* Each of the ingredients used in the food shall be declared on the label as required by the applicable sections of parts 101 and 130 of this chapter.

[42 FR 14462, Mar. 15, 1977, as amended at 58 FR 2883, Jan. 6, 1993]

§ 160.190 Frozen egg yolks.

(a) Frozen egg yolks, frozen yolks is the food prepared by freezing egg yolks that conform to §160.180, with such precautions that the finished food is free of viable *Salmonella* microorganisms.

(b) *Label declaration.* Each of the ingredients used in the food shall be declared on the label as required by the applicable sections of parts 101 and 130 of this chapter.

[42 FR 14462, Mar. 15, 1977, as amended at 58 FR 2884, Jan. 6, 1993]

PART 161—FISH AND SHELLFISH

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Subpart A—General Provisions

§ 161.30 Declaration of quantity of contents on labels for canned oysters.

(a) For many years packers of canned oysters in the Gulf area of the United States have labeled their output with a declaration of the drained weight of oysters in the containers. Packers in other areas have marketed canned oysters with a declaration of the total weight of the contents of the container. Investigation reveals that under present-day practice consumers generally do not discard the liquid packing medium, but use it as a part of the food. Section 403(e)(2) of the Federal Food, Drug, and Cosmetic Act and the regulations thereunder require food in package form to bear an accurate label statement of the quantity of food in the container.

(b) It is concluded that compliance with the label declaration of quantity of contents requirement will be met by an accurate declaration of the total weight of the contents of the can. The requirements of § 161.145(c), establishing a standard of fill of container for canned oysters and specifying the statement of substandard fill for those canned oysters failing to meet that standard remain unaffected by this interpretation.

Subpart B—Requirements for Specific Standardized Fish and Shellfish

§ 161.130 Oysters.

(a) Oysters, raw oysters, shucked oysters, are the class of foods each of which is obtained by shucking shell oysters and preparing them in accordance with the procedure prescribed in paragraph (b) of this section. The name of each such food is the name specified in the applicable definition and standard of identity prescribed in §§ 161.131 to 161.140, inclusive.

(b) If water, or salt water containing less than 0.75 percent salt, is used in any vessel into which the oysters are shucked the combined volume of oysters and liquid when such oysters are emptied from such vessel is not less than four times the volume of such water or salt water. Any liquid accumulated with the oysters is removed. The oysters are washed, by blowing or otherwise, in water or salt water, or both. The total time that the oysters are in contact with water or salt water after leaving the shucker, including the time of washing, rinsing, and any other contact with water or salt water is not more than 30 minutes. In computing the time of contact with water or salt water, the length of time that oysters are in contact with water or salt water that is agitated by blowing or otherwise, shall be calculated at twice its actual length. Any period of time that oysters are in contact with salt water containing not less than 0.75 percent salt before contact with oysters, shall not be included in computing the time that the oysters are in contact with water or salt water. Before packing into the containers for shipment or other delivery for consumption the oysters are thoroughly drained and are packed without any added substance.

(c) For the purposes of this section:

(1) *Shell oysters* means live oysters of any of the species, *Ostrea virginica*, *Ostrea gigas*, *Ostrea lurida*, in the shell, which, after removal from their beds, have not been floated or otherwise held under conditions which result in the addition of water.

(2) *Thoroughly drained* means one of the following:

(i) The oysters are drained on a strainer or skimmer which has an area of not less than 300 square inches per gallon of oysters, drained, and has perforations of at least $\frac{1}{4}$ of an inch in diameter and not more than $1\frac{1}{4}$ inches apart, or perforations of equivalent areas and distribution. The oysters are distributed evenly over the draining surface of the skimmer and drained for not less than 5 minutes; or

(ii) The oysters are drained by any method other than that prescribed by paragraph (c)(2)(i) of this section

whereby liquid from the oysters is removed so that when the oysters are tested within 15 minutes after packing by draining a representative gallon of oysters on a skimmer of the dimensions and in the manner described in paragraph (c)(2)(i) of this section for 2 minutes, not more than 5 percent of liquid by weight is removed by such draining.

§ 161.136 Olympia oysters.

Olympia oysters, raw Olympia oysters, shucked Olympia oysters, are of the species *Ostrea lurida* and conform to the definition and standard of identity prescribed for oysters in § 161.130.

§ 161.145 Canned oysters.

(a) *Identity.* (1) Canned oysters is the food prepared from one or any mixture of two or all of the forms of oysters specified in paragraph (a)(2) of this section, and a packing medium of water, or the watery liquid draining from oysters before or during processing, or a mixture of such liquid and water. The food may be seasoned with salt. It is sealed in containers and so processed by heat as to prevent spoilage.

(2) The forms of oysters referred to in paragraph (a)(1) of this section are prepared from oysters which have been removed from their shells and washed and which may be steamed while in the shell or steamed or blanched or both after removal therefrom, and are as follows:

(i) Whole oysters with such broken pieces of oysters as normally occur in removing oysters from their shells, washing, and packing.

(ii) Pieces of oysters obtained by segregating pieces of oysters broken in shucking, washing, or packing whole oysters.

(iii) Cut oysters obtained by cutting whole oysters.

(3)(i) When the form of oysters specified in paragraph (a)(2)(i) of this section is used, the name of the food is “Oysters” or “Cove oysters”, if of the species *Ostrea virginica*; “Oysters” or “Pacific oysters”, if of the species *Ostrea gigas*; “Oysters” or “Olympia oysters”, if of the species *Ostrea lurida*.

(ii) When the form of oysters specified in paragraph (a)(2)(ii) of this section is used, the name of the food is

“Pieces of _____”, the blank being filled in with the name “Oysters” or “Cove oysters”, if of the species *Ostrea virginica*; “Oysters” or “Pacific oysters”, if of the species *Ostrea gigas*; “Oysters” or “Olympia oysters”, if of the species *Ostrea lurida*.

(iii) When the form of oysters specified in paragraph (a)(2)(iii) of this section is used, the name of the food is “Cut _____”, the blank being filled in with the name “Oysters” or “Cove oysters”, if of the species *Ostrea virginica*; “Oysters” or “Pacific oysters”, if of the species *Ostrea gigas*; “Oysters” or “Olympia oysters”, if of the species *Ostrea lurida*.

(iv) In case a mixture of two or all such forms of oysters is used, the name is a combination of the names specified in this paragraph (a)(3) of the forms of oysters used, arranged in order of their predominance by weight.

(4) *Label declaration.* Each of the ingredients used in the food shall be declared on the label as required by the applicable sections of parts 101 and 130 of this chapter.

(b) [Reserved]

(c) *Fill of container.* (1) The standard of fill of container for canned oysters is a fill such that the drained weight of oysters taken from each container is not less than 59 percent of the water capacity of the container.

(2) Water capacity of containers is determined by the general method provided in § 130.12(a) of this chapter.

(3) Drained weight is determined by the following method: Keep the unopened canned oyster container at a temperature of not less than 68° or more than 95 °Fahrenheit for at least 12 hours immediately preceding the determination. After opening, tilt the container so as to distribute its contents evenly over the meshes of a circular sieve which has been previously weighed. The diameter of the sieve is 8 inches if the quantity of the contents of the container is less than 3 pounds, and 12 inches if such quantity is 3 pounds or more. The bottom of the sieve is woven-wire cloth that complies with the specifications for such cloth set forth under “2.38 mm (No. 8)” in “Official Methods of Analysis of the Association of Official Analytical Chemists,” 13th Ed. (1980), Table 1,

“Nominal Dimensions of Standard Test Sieves (U.S.A. Standard Series),” under the heading “Definitions of Terms and Explanatory Notes,” which is incorporated by reference. Copies may be obtained from the AOAC INTERNATIONAL, 481 North Frederick Ave., suite 500, Gaithersburg, MD 20877, or may be examined at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. Without shifting the material on the sieve, so incline the sieve as to facilitate drainage. Two minutes from the time drainage begins, weigh the sieve and the drained oysters. The weight so found, less the weight of the sieve, shall be considered to be the drained weight of the oysters.

(4) If canned oysters fall below the standard of fill of container prescribed in paragraph (a) of this section, the label shall bear the general statement of substandard fill specified in § 130.14(b) of this chapter in the manner and form therein specified, followed by the statement, “A can of this size should contain ____ oz. of oysters. This can contains only ____ oz.”, the blanks being filled in with the applicable figures.

[42 FR 14464, Mar. 15, 1977, as amended at 47 FR 11832, Mar. 19, 1982; 49 FR 10102, Mar. 19, 1984; 54 FR 24895, June 12, 1989; 58 FR 2884, Jan. 6, 1993; 63 FR 14035, Mar. 24, 1998]

§ 161.170 Canned Pacific salmon.

(a) *Identity.* (1) Canned Pacific salmon is the food prepared from one of the species of fish enumerated in paragraph (a)(2) of this section, prepared in one of the forms of pack specified in paragraph (a)(3) of this section, and to which may be added one or more of the optional ingredients specified in paragraph (a)(4) of this section. The food is packed in hermetically sealed containers and so processed by heat as to prevent spoilage and soften bones. The food is labeled in accordance with paragraph (a)(5) of this section.

(2)(i) The species of fish which may be used in this food are:

<i>Oncorhynchus</i>	Chinook, king, spring.
<i>tshawytscha.</i>	

<i>Oncorhynchus nerka</i>	Blueback, red, sockeye
<i>Oncorhynchus kisutch</i>	Coho, Cohoe, medium red, silver
<i>Oncorhynchus gorbuscha</i>	Pink
<i>Oncorhynchus keta</i>	Chum, keta
<i>Oncorhynchus masou</i>	Masou, cherry

(ii) For the purpose of paragraph (a)(5)(i) of this section, the common or usual name or names of each species of fish enumerated in paragraph (a)(2)(i) of this section is (are) the name(s) immediately following the scientific name of each species.

(3) The optional forms of canned Pacific salmon are processed from fish prepared by removing the head, gills, and tail, and the viscera, blood, fins, and damaged or discolored flesh to the greatest extent practicable in accordance with good manufacturing practice; and then washing. Canned Pacific salmon is prepared in one of the following forms of pack:

(i) “Regular” consists of sections or steaks which are cut transversely from the fish and filled vertically into the can. In preparation, segments of skin or large backbone may be removed. The sections or steaks are so packed that the cut surfaces approximately parallel the ends of the container. A small portion of salmon may be added if necessary to complete the fill of the container.

(ii) “Skinless and backbone removed” consists of the regular form of canned salmon set forth in paragraph (a)(3)(i) of this section from which the skin and vertebrae have been removed in accordance with good manufacturing practices.

(iii) “Minced salmon” consists of salmon which has been minced or ground.

(iv) “Salmon tips or tidbits” consists of small pieces of salmon.

(v) “No salt added” consists of canned salmon to which no salt has been added.

(4) One or more of the following optional ingredients may be added to the food:

(i) Salt.

(ii) Edible salmon oil comparable in color, viscosity, and flavor to the oil which would occur naturally in the species of salmon canned.

(5)(i) The name of the food is “salmon” together with the common or usual name or names of the species. At

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least one species name shall be printed in letters of the same style of type and not less in height than those used for the word “salmon”.

(ii) Whenever the form of pack is that described in paragraph (a)(3) (ii), (iii), or (iv) of this section, the word or words describing the form of pack shall immediately precede or follow the name of the food without intervening written, printed, or graphic matter in the manner prescribed in § 101.3(c) of this chapter; for example, “red salmon” as the name of the food followed by “skinless and backbone removed”.

(iii) *Label declaration.* Each of the ingredients used in the food shall be declared on the label as required by the applicable sections of parts 101 and 130 of this chapter.

(b) [Reserved]

(c) *Fill of container.* (1) The standard of fill of container for canned salmon is a fill including all the contents of the container and is not less than the minimum net weight specified for the corresponding can size in the following table:

I. Can size	II. Minimum net weight
603 × 405	1,814 kg (64 oz).
301 × 411	454 g (16 oz).
301 × 408	439 g (15½ oz).
401 × 211	439 g (15½ oz).
607 × 406 × 108	439 g (15½ oz).
301 × 308	340 g (12 oz).
307 × 200.25	220 g (7¾ oz).
513 × 307 × 103	220 g (7¾ oz).
307 × 113	191 g (6¾ oz).
301 × 106	106 g (3¾ oz).
407 × 213 × 015	106 g (3¾ oz).

If the can size in question is not listed, calculate the value for Column II as follows: From the list, select as the comparable can size, that one having the nearest water capacity of the can size in question, multiply the net weight listed in Column II by the water capacity of the can size in question, and divide by the water capacity of the comparable can size. Water capacities are determined by the general method provided in § 130.12(a) of this chapter.

(2) Sampling and acceptance procedure: The sample size of the sample representing the lot will be selected in accordance with the sampling plan shown in paragraph (c)(2)(ii) of this section. A lot is to be considered acceptable when the average net weight of all

the sample units is not less than the minimum net weight stated in paragraph (c)(1) of this section for the corresponding can size.

(i) Definitions of terms to be used in the sampling plans in paragraph (c)(2)(ii) of this section are as follows:

(a) *Lot.* A collection of primary containers or units of the same size, type, and style manufactured or packed under similar conditions and handled as a single unit of trade.

(b) *Lot size.* The number of primary containers or units in the lot.

(c) *Sample size (n).* The total number of sample units drawn for examination from a lot.

(d) *Sample unit.* A container, the entire contents of a container, a portion of the contents of a container, or a composite mixture of product from small containers that is sufficient for examination or testing as a single unit.

(ii) Sampling plans:

Lot size (primary containers)	Size of container ¹ (n)
4,800 or less	13
4,801 to 24,000	21
24,001 to 48,000	29
48,001 to 84,000	48
84,001 to 144,000	84
144,001 to 240,000	126
Over 240,000	200

¹ Net weight equal to or less than 1 kg. (2.2 lb).

Lot size (primary containers)	Size of container ¹ (n)
2,400 or less	13
2,401 to 15,000	21
15,001 to 24,000	29
24,001 to 42,000	48
42,001 to 72,000	84
72,001 to 120,000	126
Over 120,000	200

¹ n-number of primary containers in sample.

¹ Net weight greater than 1 kg (2.2 lb) but not more than 4.5 kgs (10 lb).

(3) If canned salmon falls below the standard of fill of container prescribed in paragraph (c)(1) of this section, the label shall bear the general statement of substandard fill specified in § 130.14(b) of this chapter, in the manner and form therein specified.

[42 FR 14464, Mar. 15, 1977, as amended at 58 FR 2884, Jan. 6, 1993; 80 FR 41436, July 15, 2015]

§ 161.173 Canned wet pack shrimp in transparent or nontransparent containers.

(a) *Identity.* (1) Canned wet pack shrimp is the food consisting of the processed meat of peeled shrimp, free of heads and, to the extent practicable under good manufacturing practice, free of shells, legs, and antennae; in one or any combination of species enumerated in paragraph (a)(2) of this section; prepared in one of the styles specified in paragraph (a)(3) of this section, in sufficient water or other suitable aqueous packing medium to fill the interstices and permit proper processing in accordance with good manufacturing practice. Canned shrimp may contain one or more of the optional ingredients specified in paragraph (a)(4) of this section. It is packed in hermetically sealed transparent or nontransparent containers and so processed by heat as to prevent spoilage.

(2) The species of shrimp that may be used in the food are of the families: Penaeidae, Pandalidae, Crangonidae, and Palaemonidae.

(3) *Styles.* Canned shrimp is prepared in one of the following styles:

(i) Shrimp with readily visible dark vein (dorsal tract, back vein, or sand vein).

(ii) Deveined shrimp containing not less than 95 percent by weight of shrimp prepared by removing the dark vein from the first five segments by deliberate cutting action.

(iii) Shrimp, other than “deveined” as described in paragraph (a)(3)(ii) of this section, containing not less than 95 percent by weight of shrimp with no readily visible dark vein within the first five segments.

(iv) Broken shrimp, consisting of less than four segments and otherwise con-

forming to one of the styles described in paragraph (a)(3)(i), (ii), or (iii) of this section.

(4) *Optional ingredients.* The following safe and suitable optional ingredients may be used:

(i) Salt.

(ii) Lemon juice.

(iii) Organic acids.

(iv) Nutritive carbohydrate sweeteners.

(v) Spices or spice oils or spice extracts.

(vi) Flavorings.

(vii) Sodium bisulfite.

(viii) Calcium disodium EDTA (calcium disodium ethylenediaminetetraacetate), complying with the provisions of § 172.120 of this chapter.

(5) *Labeling.* (i) The name of the food is “shrimp” or “shrimps.” The word “prawns” may appear on the label in parentheses immediately after the word “shrimp” or “shrimps” if the shrimp are of large or extra large size as designated in paragraph (a)(5)(iv) of this section.

(ii) When the food is of the style described in paragraph (a)(3)(ii) of this section, the words “cleaned,” “cleaned (deveined),” or “deveined” may be declared on the label.

(iii) When the food is of the style described in paragraph (a)(3)(iii) of this section, the words “contain no dark veins” or their equivalent may be declared on the label.

(iv) When the food is whole shrimp within a size range designated in table I as “extra large,” “large,” “medium,” or “small” and does not contain broken shrimp as defined in paragraph (a)(3)(iv) of this section in excess of the amount listed in table II for the applicable size, the appropriate size designation may be declared on the label.

TABLE I

Size	Number of shrimp per 28.4 g (1 oz) of drained product		Number of shrimp per 100 g (3.5 oz) of drained product	
	Other than deveined style	Deveined style	Other than deveined style	Deveined style
Extra large or jumbo	Less than 3.5	Less than 3.8	Less than 12.3	Less than 13.4.
Large	3.5 to 5.0 inclusive	3.8 to 5.4 inclusive	12.3 to 17.7 inclusive	13.4 to 19.1 inclusive.
Medium	More than 5.0 but not more than 9.0.	More than 5.4 but not more than 9.8.	More than 17.7 but not more than 31.8.	More than 19.1 but not more than 34.6.
Small	More than 9.0 but not more than 17.0.	More than 9.8 but not more than 18.4.	More than 31.8 but not more than 60.0.	More than 34.6 but not more than 65.3.
Tiny	More than 17.0	More than 18.4	More than 60.0	More than 65.3.

TABLE II

Size	Maximum percent by weight of broken shrimp ^a
Extra large or jumbo	5
Large	5
Medium	5
Small	10
Tiny	15

^aGrams of broken shrimp per 100 g of cut-out weight as determined in § 161.173(c) of this section.

(v) When the food consists of tiny shrimp, as designated in table I in paragraph (a)(5)(iv) of this section and does not contain broken shrimp as defined in paragraph (a)(3)(iv) of this section in excess of 15 percent by weight, the name of the food on the label shall be accompanied by the word “tiny” in type size equal to that used in the name of the food.

(vi) When the food consists of tiny shrimp, as designated in table I in paragraph (a)(5)(iv) of this section and contains more than 15 percent by weight of broken shrimp as defined in paragraph (a)(3)(iv) of this section, the name of the food on the label shall be accompanied by the word “broken” or “pieces” rather than the word “tiny,” in type size equal to that used in the name of the food.

(vii) When the food consists wholly or in part of sizes other than tiny, as designated in table I in paragraph (a)(5)(iv) of this section and contains more than 10 percent by weight of broken shrimp as defined in paragraph (a)(3)(iv) of this section, the name of the food on the label shall be accompanied by the word “broken” or “pieces” in type size equal to that used in the name of the food.

(viii) The name of the food shall include a declaration of any flavoring that characterizes the food, as specified in § 101.22 of this chapter, and the term “spiced” if spice characterizes the food.

(ix) *Label declaration.* Each of the ingredients used in the food shall be declared on the label as required by the applicable sections of parts 101 and 130 of this chapter.

(6) *Sampling and acceptance procedure.* A lot is to be considered acceptable when the number of defectives does not exceed the acceptance number in the

sampling plans given in paragraph (a)(6)(ii) of this section.

(i) Definitions of terms to be used in the sampling plans in paragraph (a)(6)(ii) of this section are as follows:

(a) *Lot.* A collection of primary containers or units of the same size, type, and style manufactured or packed under similar conditions and handled as a single unit of trade.

(b) *Lot size.* The number of primary containers or units in the lot.

(c) *Sample size (n).* The total number of sample units drawn for examination from a lot.

(d) *Sample unit.* A container, the entire contents of a container, a portion of the contents of a container, or a composite mixture of product from small containers that is sufficient for the examination or testing as a single unit.

(e) *Defective.* Any sample unit shall be regarded as defective when it fails to meet the minimum requirements in paragraph (a)(3) (ii) or (iii) of this section for the applicable style, when it exceeds the tolerances in paragraph (a)(5)(iv) of this section for the applicable size, or when the labeling fails to meet the requirements of paragraph (a)(5) (v), (vi), or (vii) of this section of the applicable size.

(f) *Acceptance number (c).* The maximum number of defective sample units permitted in the sample in order to consider the lot as meeting the specified requirements.

(g) *Acceptable quality level (AQL).* The maximum percent of defective sample units permitted in a lot that will be accepted approximately 95 percent of the time.

(ii) Sampling plans:

ACCEPTABLE QUALITY LEVEL 6.5

Lot size (primary containers)	Size of container	
	n ¹	c ²
NET WEIGHT EQUAL TO OR LESS THAN 1 KG (2.2 LB)		
4,800 or less	13	2
4,801 to 24,000	21	3
24,001 to 48,000	29	4
48,001 to 84,000	48	6
84,001 to 144,000	84	9
144,001 to 240,000	126	13
Over 240,000	200	19

ACCEPTABLE QUALITY LEVEL 6.5—Continued

Lot size (primary containers)	Size of container	
	<i>n</i> ¹	<i>c</i> ²
NET WEIGHT GREATER THAN 1 KG (2.2 LB) BUT NOT MORE THAN 4.5 KG (10 LB)		
2,400 or less	13	2
2,401 to 15,000	21	3
15,001 to 24,000	29	4
24,001 to 42,000	48	6
42,001 to 72,000	84	9
72,001 to 120,000	126	13
Over 120,000	200	19

¹ *n* = Number of primary containers in sample.² *c* = Acceptance number.

(b) [Reserved]

(c) *Fill of container.* (1) The standard of fill of transparent or nontransparent containers for canned wet pack shrimp is a fill such that the cut-out weight of shrimp taken from each container is not less than 60 percent of the weight of the water required to fill the container. The weight of the water required to fill the container is determined by the general method provided in §130.12(a) of this chapter. Cut-out weight is determined by the following method: Keep the unopened canned shrimp container at a temperature of not less than 68° nor more than 75 °Fahrenheit for at least 12 hours immediately preceding the determination. After opening, distribute the shrimp evenly over the meshes of a circular sieve that has been previously weighed. The diameter of the sieve is 20.3 centimeters (8 inches) if the quantity of the contents of the container is less than 1.36 kilograms (3 pounds), and 30.5 centimeters (12 inches), if such quantity is 1.36 kilograms (3 pounds) or more. The bottom of the sieve is woven-wire cloth that complies with the specifications for such cloth set forth as a 2.38 mm (No. 8) sieve in the “Definitions of Terms and Explanatory Notes” of the “Official Methods of Analysis of the Association of Official Analytical Chemists,” 13th Ed. (1980), which is incorporated by reference. Copies may be obtained from the AOAC INTERNATIONAL, 481 North Frederick Ave., suite 500, Gaithersburg, MD 20877, or may be examined at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/

code of federal regulations/

ibr_locations.html. Without shifting the material on the sieve, incline the sieve at an angle of approximately 17° to 20° to facilitate drainage. Allow the shrimp to drain for 2 minutes, measured from the moment the product is poured onto the sieve. Weigh the sieve and the drained shrimp. The weight so found, less the weight of the sieve, shall be considered to be the cut-out weight of the shrimp.

(2) Sampling and acceptance procedure: A container that falls below the requirement for minimum fill prescribed in paragraph (c)(1) of this section is considered a “defective.” Determine compliance with paragraph (c)(1) of this section as specified in paragraph (a)(6) of this section except that the sample unit shall be the entire contents of the container.

(3) If canned wet pack shrimp in transparent or nontransparent containers falls below the applicable standard of fill of container prescribed in paragraph (c)(1) of this section, the label shall bear the general statement of substandard fill provided in §130.14(b) of this chapter, in the manner and form therein specified.

[43 FR 19840, May 9, 1978; 43 FR 25423, June 13, 1978, as amended at 47 FR 11833, Mar. 19, 1982; 49 FR 10102, Mar. 19, 1984; 54 FR 24896, June 12, 1989; 58 FR 2884, Jan. 6, 1994; 63 FR 14035, Mar. 24, 1998]

EFFECTIVE DATE NOTE: Paragraphs (a) and (c) of §161.173 were stayed until further notice by a document published at 44 FR 50328, Aug. 28, 1979.

§ 161.175 Frozen raw breaded shrimp.

(a) Frozen raw breaded shrimp is the food prepared by coating one of the optional forms of shrimp specified in paragraph (c) of this section with safe and suitable batter and breading ingredients as provided in paragraph (d) of this section. The food is frozen.

(b) The food tests not less than 50 percent of shrimp material as determined by the method prescribed in paragraph (g) of this section, except that if the shrimp are composite units the method prescribed in paragraph (h) of this section is used.

(c) The term *shrimp* means the tail portion of properly prepared shrimp of

commercial species. Except for composite units, each shrimp unit is individually coated. The optional forms of shrimp are:

(1) Fantail or butterfly: Prepared by splitting the shrimp; the shrimp are peeled, except that tail fins remain attached and the shell segment immediately adjacent to the tail fins may be left attached.

(2) Butterfly, tail off: Prepared by splitting the shrimp; tail fins and all shell segments are removed.

(3) Round: Round shrimp, not split; the shrimp are peeled, except that tail fins remain attached and the shell segment immediately adjacent to the tail fins may be left attached.

(4) Round, tail off: Round shrimp, not split; tail fins and all shell segments are removed.

(5) Pieces: Each unit consists of a piece or a part of a shrimp; tail fins and all shell segments are removed.

(6) Composite units: Each unit consists of two or more whole shrimp or pieces of shrimp, or both, formed and pressed into composite units prior to coating; tail fins and all shell segments are removed; large composite units, prior to coating, may be cut into smaller units.

(d) The batter and breading ingredients referred to in paragraph (a) of this section are the fluid constituents and the solid constituents of the coating around the shrimp. These ingredients consist of suitable substances which are not food additives as defined in section 201(s) of the Federal Food, Drug, and Cosmetic Act; or if they are food additives as so defined, they are used in conformity with regulations established pursuant to section 409 of the act. Batter and breading ingredients that perform a useful function are regarded as suitable, except that artificial flavorings, artificial sweeteners, artificial colors, and chemical preservatives, other than those provided for in this paragraph, are not suitable ingredients of frozen raw breaded shrimp. Chemical preservatives that are suitable are:

(1) Ascorbic acid, which may be used in a quantity sufficient to retard development of dark spots on the shrimp; and

(2) The antioxidant preservatives listed in subpart D of part 182 of this chapter that may be used to retard development of rancidity of the fat content of the food, in amounts within the limits prescribed by that section.

(e) The label shall name the food, as prepared from each of the optional forms of shrimp specified in paragraph (c) (1) to (6), inclusive, of this section, and following the numbered sequence of such subparagraph, as follows:

(1) "Breaded fantail shrimp." The word "butterfly" may be used in lieu of "fantail" in the name.

(2) "Breaded butterfly shrimp, tail off."

(3) "Breaded round shrimp."

(4) "Breaded round shrimp, tail off."

(5) "Breaded shrimp pieces."

(6) Composite units:

(i) If the composite units are in a shape similar to that of breaded fish sticks the name is "Breaded shrimp sticks"; if they are in the shape of meat cutlets, the name is "Breaded shrimp cutlets".

(ii) If prepared in a shape other than that of sticks or cutlets, the name is "Breaded shrimp _____", the blank to be filled in with the word or phrase that accurately describes the shape, but which is not misleading.

In the case of the names specified in paragraphs (e) (1) through (5) of this section, the words in each name may be arranged in any order, provided they are so arranged as to be accurately descriptive of the food. The word "prawns" may be added in parentheses immediately after the word "shrimp" in the name of the food if the shrimp are of large size; for example, "Fantail breaded shrimp (prawns)". If the shrimp are from a single geographical area, the adjectival designation of that area may appear as part of the name; for example, "Breaded Alaskan shrimp sticks".

(f) The names of the optional ingredients used, as provided for in paragraph (d) of this section, shall be listed on the principal display panel or panels of the label with such prominence and conspicuousness as to render them likely to be read and understood by the ordinary individual under customary conditions of purchase. If a spice that also

imparts color is used, it shall be designated as "spice and coloring", unless the spice is designated by its specific name. If ascorbic acid is used to retard development of dark spots on the shrimp, it shall be designated as "Ascorbic acid added as a preservative" or "Ascorbic acid added to retard discoloration of shrimp". If any other antioxidant preservative, as provided in paragraph (d) of this section, is used, such preservative shall be designated by its common name followed by the statement "Added as a preservative".

(g) The method for determining percentage of shrimp material for those forms specified in paragraphs (c) (1) through (5) of this section is as follows:

(1) *Equipment needed.* (i) Two-gallon container, approximately 9 inches in diameter.

(ii) Two-vaned wooden paddle, each vane measuring approximately $1\frac{3}{4}$ inches by $3\frac{3}{4}$ inches.

(iii) Stirring device capable of rotating the wooden paddle at 120 r.p.m.

(iv) Balance accurate to 0.01 ounce (or 0.1 gram).

(v) U.S. Standard Sieve No. 20, 30.5 centimeter (12 inch) diameter. The sieves shall comply with the specifications for such cloth set forth in "Official Methods of Analysis of the Association of Official Analytical Chemists" (AOAC), 13th Ed. (1980), Table 1, "Nominal Dimensions of Standard Test Sieves (U.S.A. Standard Series)," under the heading "Definitions of Terms and Explanatory Notes," which is incorporated by reference. Copies may be obtained from the AOAC INTERNATIONAL, 481 North Frederick Ave., suite 500, Gaithersburg, MD 20877, or may be examined at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

(vi) U.S. Standard sieve, $\frac{1}{2}$ -inch sieve opening, 12-inch diameter.

(vii) Forceps, blunt points.

(viii) Shallow baking pans.

(ix) Rubber-tipped glass stirring rod.

(2) *Procedure.* (i) Weigh the sample to be debreaded. Fill the container three-fourths full of water at 70°–80 °F. Sus-

pend the paddle in the container, leaving a clearance of at least 5 inches below the paddle vanes, and adjust speed to 120 r.p.m. Add shrimp and stir for 10 minutes. Stack the sieves, the $\frac{1}{2}$ -inch mesh over the No. 20, and pour the contents of the container onto them. Set the sieves under a faucet, preferably with spray attached, and rinse shrimp with no rubbing of flesh, being careful to keep all rinsings over the sieves and not having the stream of water hit the shrimp on the sieve directly. Lay the shrimp out singly on the sieve as rinsed. Inspect each shrimp and use the rubber-tipped rod and the spray to remove the breading material that may remain on any of them, being careful to avoid undue pressure or rubbing, and return each shrimp to the sieve. Remove the top sieve and drain on a slope for 2 minutes, then remove the shrimp to weighing pan. Rinse contents of the No. 20 sieve onto a flat pan and collect any particles other than breading (i.e., flesh and tail fins) and add to shrimp on balance pan and weigh.

(ii) Calculate percent shrimp material:

Percent shrimp material = (Weight of debreaded sample) / (Weight of sample) $\times 100 + 2$

(h) The method for determining percentage of shrimp material for composite units, specified in paragraph (c)(6) of this section, is as follows:

(1) *Equipment needed.* (i) Water bath (for example a 3-liter to 4-liter beaker).

(ii) Balance accurate to 0.1 gram.

(iii) Clip tongs of wire, plastic, or glass.

(iv) Stop-watch or regular watch readable to a second.

(v) Paper towels.

(vi) Spatula, 4-inch blade with rounded tip.

(vii) Nut picker.

(viii) Thermometer (immersion type) accurate to ± 2 °F.

(ix) Copper sulfate crystals ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$).

(2) *Procedure.* (i) Weigh all composite units in the sample while they are still hard frozen.

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(ii) Place each composite unit individually in a water bath that is maintained at 63 °F–86 °F, and allow to remain until the breading becomes soft and can easily be removed from the still frozen shrimp material (between 10 seconds to 80 seconds for composite units held in storage at 0 °F). If the composite units were prepared using batters that are difficult to remove after one dipping, redip them for up to 5 seconds after the initial debreading and remove residual batter materials.

NOTE: Several preliminary trials may be necessary to determine the exact dip time required for “debreading” the composite units in a sample. For these trials only, a saturated solution of copper sulfate (1 pound of copper sulfate in 2 liters of tap water) is necessary. The correct dip time is the minimum time of immersion in the copper sulfate solution required before the breading can easily be scraped off: *Provided*, That the “debreaded” units are still solidly frozen and only a slight trace of blue color is visible on the surface of the “debreaded” shrimp material.

(iii) Remove the unit from the bath; blot lightly with double thickness of paper toweling; and scrape off or pick out coating from the shrimp material with the spatula or nut picker.

(iv) Weigh all the “debreaded” shrimp material.

(v) Calculate the percentage of shrimp material in the sample, using the following formula:

Percent shrimp material = (Weight of debreaded shrimp sample) / Weight of sample × 100

(i) *Label declaration.* Each of the ingredients used in the food shall be declared on the label as required by the applicable sections of parts 101 and 130 of this chapter.

[42 FR 14464, Mar. 15, 1977, as amended at 47 FR 11833, Mar. 19, 1982; 49 FR 10102, Mar. 19, 1984; 54 FR 24896, June 12, 1989; 58 FR 2884, Jan. 6, 1993; 63 FR 14035, Mar. 24, 1998]

§ 161.176 Frozen raw lightly breaded shrimp.

Frozen raw lightly breaded shrimp complies with the provisions of § 161.175, except that it contains not less than 65 percent of shrimp material, as determined by the method prescribed in § 161.175 (g) or (h), as appropriate, and that in the name prescribed

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the word “lightly” immediately precedes the words “breaded shrimp”.

§ 161.190 Canned tuna.

(a) *Identity.* (1) Canned tuna is the food consisting of processed flesh of fish of the species enumerated in paragraph (a)(2) of this section, prepared in one of the optional forms of pack specified in paragraph (a)(3) of this section, conforming to one of the color designations specified in paragraph (a)(4) of this section, in one of the optional packing media specified in paragraph (a)(5) of this section, and may contain one or more of the seasonings and flavorings specified in paragraph (a)(6) of this section. For the purpose of inhibiting the development of struvite crystals, sodium acid pyrophosphate may be added in a quantity not in excess of 0.5 percent by weight of the finished food. It is packed in hermetically sealed containers and so processed by heat as to prevent spoilage. It is labeled in accordance with the provisions of paragraph (a)(8) of this section.

(2) The fish included in the class known as tuna fish are:

Thunnus thynnus (Linnaeus, 1758)—Northern bluefin tuna
Thunnus maccoyii (Castelnau, 1872)—Southern bluefin tuna
Thunnus alalunga (Bonnaterre, 1788)—Albacore
Thunnus atlanticus (Lesson, 1830)—Blackfin tuna
Thunnus obesus (Lowe, 1839)—Bigeye tuna
Thunnus albacares (Bonnaterre, 1788)—Yellowfin tuna
Thunnus tonggol (Bleeker, 1851)—Longtail tuna
Katsuwonus pelamis (Linnaeus, 1758)—Skipjack tuna
Euthynnus alletteratus (Rafinesque, 1810)—Spotted tunny
Euthynnus lineatus Kishinouye, 1920—Black skipjack tuna
Euthynnus affinis (Cantor, 1849)—Kawakawa
Allothunnus fallai Serventy, 1948—Slender tuna
Auxis rochei (Risso, 1810)—Bullet tuna
Auxis thazard (Lacepede, 1800)—Frigate tuna

(3) The optional forms of processed tuna consist of loins and other striated muscular tissue of the fish. The loin is the longitudinal quarter of the great lateral muscle freed from skin, scales, visible blood clots, bones, gills, viscera and from the nonstriated part of such

muscle, which part (known anatomically as the median superficial muscle) is highly vascular in structure, dark in color because of retained blood, and granular in form. Canned tuna is prepared in one of the following forms of pack, the identity of which is determined in accordance with the methods prescribed in paragraph (c)(2) of this section.

(i) Solid or solid pack consists of loins freed from any surface tissue discolored by diffused hemolyzed blood, cut in transverse segments to which no free fragments are added. In containers of 1 pound or less of net contents, such segments are cut in lengths suitable for packing in one layer. In containers of more than 1 pound net contents, such segments may be cut in lengths suitable for packing in one or more layers of equal thickness. Segments are placed in the can with the planes of their transverse cut ends parallel to the ends of the can. A piece of a segment may be added if necessary to fill a container. The proportion of free flakes broken from loins in the canning operation shall not exceed 18 percent.

(ii) Chunk, chunks, chunk style consists of a mixture of pieces of tuna in which the original muscle structure is retained. The pieces may vary in size, but not less than 50 percent of the weight of the pressed contents of a container is retained on a ½-inch-mesh screen.

(iii) Flake or flakes consist of a mixture of pieces of tuna in which more than 50 percent of the weight of the pressed contents of the container will pass through a ½-inch-mesh screen, but in which the muscular structure of the flesh is retained.

(iv) Grated consists of a mixture of particles of tuna that have been reduced to uniform size, that will pass through a ½-inch-mesh screen, and in which the particles are discrete and do not comprise a paste.

(v) Any of the specified forms of pack of canned tuna may be smoked. Canned smoked tuna shall be labeled in accordance with the provisions of paragraph (a)(8)(v) of this section.

(4) Canned tuna, in any of the forms of pack specified in paragraph (a)(3) of this section, falls within one of the following color designations, measured by

visual comparison with matte surface neutral reflectance standards corresponding to the specified Munsell units of value, determined in accordance with paragraph (a)(7) of this section.

(i) *White*. This color designation is limited to the species *Thunnus alalunga* (albacore), and is not darker than Munsell value 6.3.

(ii) *Light*. This color designation includes any tuna not darker than Munsell value 5.3.

(iii) *Dark*. This color designation includes all tuna darker than Munsell value 5.3.

(iv) *Blended*. This color designation may be applied only to tuna flakes specified in paragraph (a)(3)(iii) of this section, consisting of a mixture of tuna flakes of which not less than 20 percent by weight meet the color standard for either white tuna or light tuna, and the remainder of which fall within the color standard for dark tuna. The color designation for blended tuna is determined in accordance with paragraph (a)(7) of this section.

(5) Canned tuna is packed in one of the following optional packing media:

(i) Any edible vegetable oil other than olive oil, or any mixture of such oils not containing olive oil.

(ii) Olive oil.

(iii) Water.

(6) Canned tuna may be seasoned or flavored with one or more of the following:

(i) Salt.

(ii) Monosodium glutamate.

(iii) Hydrolyzed protein declared in accordance with the applicable provisions of §101.22.

(iv) Spices or spice oils or spice extracts.

(v) Vegetable broth in an amount not in excess of 5 percent of the volume capacity of the container, such broth to consist of a minimum of 0.5 percent by weight of vegetable extractives and to be prepared from two or more of the following vegetables: Beans, cabbage, carrots, celery, garlic, onions, parsley, peas, potatoes, green bell peppers, red bell peppers, spinach, and tomatoes.

(vi) Garlic.

(vii) Lemon flavoring to be prepared from lemon oil and citric acid together with safe and suitable carriers for the

lemon oil which are present at non-functional and insignificant levels in the finished canned food. When lemon flavoring is added, a safe and suitable solubilizing and dispersing ingredient may be added in a quantity not exceeding 0.005 percent by weight of the finished food. A substance used in accordance with this paragraph is deemed to be suitable if it is used in an amount no greater than necessary to achieve the intended flavor effect, and is deemed to be safe if it is not a food additive as defined in section 201(s) of the Federal Food, Drug, and Cosmetic Act (the act), or if it is a food additive as so defined, it is used in conformity with regulations established pursuant to section 409 of the act.

(viii) Edible vegetable oil, excluding olive oil, used in an amount not to exceed 5 percent of the volume capacity of the container, with or without any suitable form of emulsifying and suspending ingredients that has been affirmed as GRAS or approved as a food additive to aid in dispersion of the oil, as seasoning in canned tuna packed in water.

(7) For determination of the color designations specified in paragraph (a)(4) of this section, the following method shall be used: Recombine the separations of pressed cake resulting from the method prescribed in paragraph (c)(2) of this section. Pass the combined portions through a sieve fitted with woven-wire cloth of ¼-inch mesh complying with the specifications for such cloth set forth in "Official Methods of Analysis of the Association of Official Analytical Chemists," 13th Ed. (1980), Table 1, "Nominal Dimensions of Standard Test Sieves (U.S.A. Standard Series)," under the heading "Definitions of Terms and Explanatory Notes," which is incorporated by reference. Copies may be obtained from the AOAC INTERNATIONAL, 481 North Frederick Ave., suite 500, Gaithersburg, MD 20877, or may be examined at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html. Mix the sieved mate-

rial and place a sufficient quantity into a 307 × 113 size container (bearing a top seam and having a false bottom approximately ½-inch deep and painted flat black inside and outside) so that after tamping and smoothing the surface of the sample the material will be ⅛-inch to ¼-inch below the top of the container. Within 10 minutes after sieving through the ¼-inch mesh woven-wire cloth, determine the Munsell value of sample surface.

(i) Determine the Munsell value of the sample surface so prepared. The following method may be used, employing an optical comparator, consisting of a lens and prism system which brings two beams of light, reflected from equal areas of sample surface and standard surface, respectively, together, within an eyepiece, so as to show an equally divided optical field. The scanned areas of sample and standard surface are not smaller than 2 square inches. Light reaching the eye is rendered sufficiently diffuse, by design of eyepiece and comparator, so that detail of the sample surface will remain undefined, to a degree such as to avoid visual confusion in observation of a match of over-all intensity of reflected light. The eyepiece contains a color filter centering at a wavelength between 550 mμ and 560 mμ. The filter does not pass appreciable visible radiation of wavelengths below 540 mμ or above 570 mμ. The passed wavelength band is of a monochromaticity sufficient to cause a sample and a neutral standard of equal reflectance to appear of the same hue. The comparator is rigidly mounted on a vertical stand attached to a base in which arrangement is provided for securely and accurately positioning two cans of size 307 × 113 in the two fields of view. Mounted on the base are two shaded lamps, which direct the center of their beams of light at about a 45° angle to the plane of the sample and standard surfaces. The lamps are so positioned that light from one bears mainly upon the sample surface and light from the other mainly on the standard surface, and are so placed in relation to sample and standard that no shadows, as from the can rims, appear in the fields of view. The lamps are strong enough to furnish adequate and convenient illumination

through eyepiece and filter. Means are provided to alter the light intensity of one lamp in relation to the other, as may conveniently be achieved by using a 100-watt tungsten filament bulb in one lamp and using, in the other, a similar 150-watt bulb connected with the power source through a suitable rheostat. The stand is equipped with non-glossy black curtains on the side of the observer, to exclude variation in extraneous light reflected from the person of the observer.

(ii) To adjust the comparator, place a pair of matte surface standards of Munsell value 5.3, mounted as described in paragraph (a)(7)(iv) of this section, in position in the comparator base, and adjust the intensity of the variable lamp until the two halves of the optical field, viewed through the eyepiece, are of equal brightness. Then remove one of the standards and replace it with the prepared sample. Without altering any other adjustments, observe through the eyepiece whether the sample appears lighter or darker than the standard. In case of examination of albacore designated "white", conduct the procedure using standards of Munsell value 6.3.

(iii) The standards with which comparisons are made are essentially neutral matte-finish standards, equivalent in luminous reflectance of light of 555μ wavelength to 33.7 percent of the luminous reflectance of magnesium oxide (for Munsell value 6.3) and 22.6 percent of the luminous reflectance of magnesium oxide (for Munsell value 5.3), as given by the relationship between Munsell value and luminous reflectance derived by a subcommittee of the Optical Society of America and published in the "Journal of the Optical Society of America," Vol. 33, page 406 (1943), which is incorporated by reference. Copies are available from the Center for Food Safety and Applied Nutrition (HFS-150), Food and Drug Administration, 5001 Campus Dr., College Park, MD 20740, or available for inspection at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

(iv) These standards shall be cut in circles 3¼ inches in diameter and shall be mounted in 307 × 113 size containers, bearing a top seam and painted flat black inside and outside, so that the surfaces of the standards are ⅜ inch below the top of the containers in which they are mounted.

(v) In the case of blended tuna, the foregoing method shall be varied by first separating the tuna flakes of the two different colors before passing them through the ¼-inch mesh sieve, then proceeding with each portion separately for the determination of its color value, employing, if necessary, a sample container with false bottom greater than ½ inch deep.

(8)(i) The specified names of the canned tuna for which definitions and standards of identity are prescribed by this section, except where water is the packing medium or where the tuna is smoked, are formed by combining the designation of form of pack with the color designation of the tuna; for example, "Solid pack white tuna", "Grated dark tuna", etc. In the case of blended tuna, there shall be used both applicable color designations of the blended flakes, in precedence determined in accordance with the predominating portion found in the container; for example, "Blended white and dark tuna flakes", "Blended dark and light tuna flakes".

(ii) The specified name of canned tuna when water is used as the packing medium is formed as described in paragraph (a)(8)(i) of this section, followed by the words "in water"; for example, "Grated light tuna in water".

(iii) When the packing medium is vegetable oil or olive oil, the label shall bear the name of the optional packing medium used, as specified in paragraph (a)(5) of this section, preceded by the word "in" or the words "packed in". In case of the optional ingredient specified in paragraph (a)(5)(i) of this section, the name or names of the oil used may be stated, or the general term "vegetable oil" may be used.

(iv) In case solid pack tuna is packed in olive oil, the designation "Tonno" may also appear.

(v) In case any of the specified forms of canned tuna are smoked, the word "smoked" shall appear as a part of the

name on the label; for example, “Smoked light tuna flakes”.

(vi) Where the canned tuna contains one or more of the ingredients provided for in paragraph (a)(6) of this section, the label shall bear the statement “Seasoned with _____”, the blank being filled in with the name or names of the ingredient or ingredients used, except that if the ingredient designated in paragraph (a)(6)(v) of this section is used, the blank shall be filled in with the term “vegetable broth”, and if the ingredients designated in paragraph (a)(6)(viii) of this section are used, the blank may be filled in with the term “oil”, and if the ingredient designated in paragraph (a)(6)(iv) of this section is used alone, the label may alternatively bear either the statement “spiced” or the statement “with added spice”; and if salt is the only seasoning ingredient used, the label may alternatively bear any of the statements “salted”, “with added salt”, or “salt added”. If the flavoring ingredients designated in paragraph (a)(6)(vii) of this section are used, the words “lemon flavored” or “with lemon flavoring” shall appear as part of the name on the label; for example, “lemon flavored chunk light tuna”. Citric acid and any optional solubilizing and dispersing agent used as specified in paragraph (a)(6)(vii) of this section in connection with lemon flavoring ingredients or emulsifying and suspending ingredients used as specified in paragraph (a)(6)(viii) of this section shall be designated on the label by their common or usual name.

(vii) Where the canned tuna contains the optional ingredient sodium acid pyrophosphate as provided in paragraph (a)(1) of this section, the label shall bear the statement “pyrophosphate added” or “with added pyrophosphate”.

(viii) Wherever the name of the food appears on the label so conspicuously as to be easily seen under customary conditions of purchase, the names of the optional ingredients used, as specified in paragraphs (a)(8)(iii), (vi), and (vii) of this section (except if lemon flavoring is added, this subparagraph applies only to the terms “lemon flavored” or “with lemon flavoring”, not to the constituent ingredients of that flavoring or to any optional solubi-

lizing or dispersing ingredient used in connection with lemon flavoring ingredients), shall immediately and conspicuously precede or follow such name without intervening, written, printed, or graphic matter except that the common name of the species of tuna fish may so intervene; but the species name “albacore” may be employed only for canned tuna of that species which meets the color designation “white” as prescribed by paragraph (a)(4)(i) of this section.

(ix) Statements of optional ingredients present required by paragraph (a)(8)(vi) of this section, but not subject to the provisions of paragraph (a)(8)(viii) of this section shall be set forth on the label with such prominence and conspicuousness as to render them likely to be read and understood by the ordinary individual under customary conditions of purchase.

(b) [Reserved]

(c) *Fill of container.* (1) The standard of fill of container for canned tuna is a fill such that the average weight of the pressed cake from 24 cans, as determined by the method prescribed by paragraph (c)(2) of this section, is not less than the minimum value specified for the corresponding can size and form of tuna ingredient in the following table:

I. Can size and form of tuna ingredient	II. Minimum value for weights of pressed cake (average of 24 cans) (in ounces)
211 × 109: Solid 2.25 Chunks 1.98 Flakes 1.98 Grated 2.00	
307 × 113: Solid 4.47 Chunks 3.92 Flakes 3.92 Grated 3.96	
401 × 206: Solid 8.76 Chunks 7.68 Flakes 7.68 Grated 7.76	
603 × 408: Solid 43.2 Chunks 37.9 Flakes 37.9 Grated 38.3	

If the can size in question is not listed, calculate the value for column II as

follows: From the list select as the comparable can size that one having nearest the water capacity of the can size in question, multiply the value listed in column II for the same form of tuna ingredient by the water capacity of the can size in question, and divided by the water capacity of the comparable can size. Water capacities are determined by the general method provided in § 130.12(a) of this chapter. For the purposes of this section, cans of dimensions 211×109 shall be deemed to have a water capacity at 68°F of 3.55 avoirdupois ounces of water; cans of dimensions 307×113 , a water capacity of 7.05 avoirdupois ounces of water; cans of dimensions 401×206 , a water capacity of 13.80 avoirdupois ounces of water; and cans of dimensions 603×408 , a water capacity of 68.15 avoirdupois ounces of water.

(2) The methods referred to in paragraph (c)(1) of this section for determining the weight of the pressed cake and referred to in paragraph (a)(3)(i) of this section for determining the percent of free flakes and the percent of pieces that pass through a $\frac{1}{2}$ -inch-mesh sieve are as follows:

(i) Have each of the 24 cans and contents at a temperature of 75°F within $\pm 5^\circ\text{F}$. Test each can in turn as follows:

(ii) Cut out the top of the can (code end), using a can opener that does not remove nor distort the double seam.

(iii) With the cut top held on the can contents, invert the can, and drain the free liquid by gentle finger pressure on the cut lid so that most of the free liquid drains from the can.

(iv) With the cut lid still in place, cut out the bottom of the can with the can opener, then turn the can upright and remove the cut can top (code end). Scrape off any adhering tuna particles into the tuna mass in the can.

(v) Place the proper size of press cylinder as provided in paragraph (c)(3)(i) of this section in a horizontal position on a table; then, using the cut bottom of the can as a pusher, gently force the can contents from the can into the cylinder so that the flat side of the can contents lies in contact with the bottom of the cylinder. Remove the bottom of the can that was used as the pusher and scrape any adhering par-

ticles from the can body and bottom of the can, and put them in the cylinder.

(vi) Place the cylinder plunger on top of the can contents in the cylinder. Remove the eyebolt and put the cylinder and plunger in position on the press (paragraph (c)(3)(iii) of this section).

(vii) Begin the operation of the press and as soon as liquid is observed coming from the cylinder start timing the operation. Apply pressure to the plunger slowly and at a uniform rate, so that a full minute is used to reach a pressure of 384 pounds per square inch of plunger face in contact with the can contents. Hold this pressure for 1 additional minute and then release the pressure and disengage the plunger from the press shaft. Tip the press cylinder so that any free liquid is drained out.

(viii) Remove press cylinder with plunger from the press, insert eyebolt in plunger and withdraw it from the cylinder. Loosen the pressed cake from the cylinder with a thin blade and remove the entire pressed cake as gently as possible, to keep the mass in a single cake during this operation. Place the pressed cake and any pieces that adhered to the plunger and cylinder in a tared receiving pan and determine the weight of the pressed material.

(ix) For cans larger than 401×206 , cut out the top of the can and drain off free liquid from the can contents as in operations described in paragraphs (c)(2)(ii) and (iii) of this section. Determine the gross weight of the can and remaining contents. Using a tared core cutter as provided for in paragraph (c)(3)(ii) of this section, cut vertically a core of the drained material in the can. Determine the weight of the core. With a thin spatula transfer the core to the pressing cylinder for 401×206 cans. Determine the weight of the pressed cake as in the operations described in paragraphs (c)(2)(v) through (viii) of this section. Remove the remaining drained contents of the can, reserving the contents for the determination of free flakes (paragraph (c)(2)(xi) of this section), weigh the empty can, and calculate the weight of the total drained material. Calculate the weight of pressed cake on the entire can basis by multiplying the weight of the pressed cake of the core by the ratio of the

weight of the drained contents of the can to the weight of the core before pressing.

(x) Repeat the determination of weight of pressed cake on the remainder of the 24 cans and determine the average weight of pressed cake for the purpose of paragraph (c)(1) of this section.

(xi) Determination of free flakes: If the optional form of tuna ingredient is solid pack, determine the percent of free flakes. Any flakes resulting from the operations described in this paragraph (c)(2)(xi) or in other parts of this paragraph are to be weighed as free flakes. Only fragments that were broken in the canning procedure are considered to be free flakes. If the can is of such size that its entire drained contents were pressed as described in paragraphs (c)(2)(i) to (viii) of this section, inclusive, examine the pressed cake carefully for free flakes. Using a spatula, scrape free flakes gently from the outside of the cake. Weigh the aggregate free flakes that were broken from the loin segments in the canning procedure and calculate their percentage of the total weight of pressed cake. If the can is of such size that a core was cut for pressing as described in paragraph (c)(2)(ix) of this section, make the examination for free flakes on a weighed portion of the drained material remaining after the core was removed. The weight of the portion examined should approximately equal the weight of the core before pressing. Calculate the weight of the free flakes that were broken from the loins in the canning procedure as a percentage of the weight of the portion examined.

(xii) Determination of particle size: If the optional form of tuna ingredient is chunks, flakes, or grated, the pressed cake resulting from the operations described in paragraphs (c)(2)(i) to (ix) of this section, inclusive, is gently separated by hand, care being taken to avoid breaking the pieces. The separated pieces are evenly distributed over the top sieve of the screen separation equipment described in paragraph (c)(3)(iv) of this section. Beginning with the top sieve, lift and drop each sieve by its open edge three times. Each time, the open edge of the sieve is lifted the full distance permitted by

the device. Combine and weigh the material remaining on the three top sieves (1½-inch, 1-inch, ½-inch screens), and determine the combined percentage retention by weight in relation to the total weight of the pressed cake.

(3)(i) The press cylinder and plunger referred to in paragraph (c)(2) of this section are made of stainless steel. The press cylinders are made with a lip to facilitate drainage of the liquid. Plungers have a threaded center hole, about half as deep as the thickness of the plunger, for receiving a ringbolt to assist in removing the plunger from the press cylinder. Dimensions for press cylinders and plungers are as follows:

For can size 211 × 109

Press cylinder:
Inside depth, approximately 3¾ inches.
Inside diameter, 2.593 inches.
Wall thickness, approximately ⅜ inch.
Plunger:
Thickness, approximately 1 inch.
Diameter, 2.568 inches.

For can size 307 × 113

Press cylinder:
Inside depth, approximately 4 inches.
Inside diameter, 3.344 inches.
Wall thickness, approximately ⅜ inch.
Plunger:
Thickness, approximately 1¼ inches.
Diameter, 3.319 inches.

For can size 401 × 206

Press cylinder:
Inside depth, approximately 4½ inches.
Inside diameter, 3.969 inches.
Wall thickness, approximately ½ inch.
Plunger:
Thickness, approximately 1¼ inches.
Diameter, 3.944 inches.

For can sizes where the diameter is greater than 401, the core cutter described in paragraph (c)(3)(ii) of this section shall be used and the resulting core pressed in the press cylinder for can size 401 × 206. For can sizes differing from those specified in this paragraph (c)(3)(i), special press cylinders and plungers may be used. Special press less than the outside diameters, at the cylinders have inside diameters ⅛-¹/₁₆-inch double seam, for the can sizes for which the cylinders are used; plunger diameters are 0.025-inch less than the inside diameters of the press cylinders.

(ii) The core cutter referred to in paragraph (c)(2) (ix) and (xi) of this section and paragraph (c)(3)(i) of this section is made from a previously sealed 300 × 407 can. The cover, including the top seam, is cut out. The edge is smoothed and sharpened. A small hole to permit passage of air is made in the bottom.

(iii) The hydraulic press referred to in paragraph (c)(2) (vi) to (x) of this section, inclusive, is made by so mounting a hydraulic jack, in a strong frame, that it will press horizontally against the center of the plunger in the press cylinder used. The frame is so braced that it does not change shape when pressure is applied. The gauge on the hydraulic jack is so calibrated that it will indicate, for the plunger being used, when the plunger is pressing against the contents of the press cylinder with a pressure of 384 pounds per square inch of plunger face.

(iv) The sieving device referred to in paragraph (c)(2)(xii) of this section consists of three sieves, each approximately 1 foot square, loosely mounted, one above the other, in a metal frame. The mesh in the top sieve complies with the specifications for 1½-inch woven-wire cloth as prescribed in paragraph (a)(7) of this section. The meshes in the sieves below comply with similar specifications for 1-inch and ½-inch woven-wire cloth as set forth in the same publication. The sides of each sieve are formed, in a raised rim, from ¾-inch × ½-inch metal strap. The frame has tracks made of ¾-inch angle metal to support each sieve under each side. The tracks are so positioned as to permit each sieve a free vertical travel of 1¾ inches.

(4) If canned tuna falls below the applicable standard of fill of container prescribed in paragraph (c)(1) of this section, the label shall bear the general statement of substandard fill provided in § 130.14(b) of this chapter, in the manner and form therein specified.

[42 FR 14464, Mar. 15, 1977, as amended at 47 FR 11833, Mar. 19, 1982; 49 FR 10102, Mar. 19, 1984; 54 FR 24896, June 12, 1989; 55 FR 45797, Oct. 31, 1990; 56 FR 6263, Feb. 15, 1991; 58 FR 2884, Jan. 6, 1993; 61 FR 14480, Apr. 2, 1996; 63 FR 14035, Mar. 24, 1998; 66 FR 56035, Nov. 6, 2001; 88 FR 53773, Aug. 9, 2023]

PART 163—CACAO PRODUCTS

Subpart A—General Provisions

Sec.

163.5 Methods of analysis.

Subpart B—Requirements for Specific Standardized Cacao Products

- 163.110 Cacao nibs.
- 163.111 Chocolate liquor.
- 163.112 Breakfast cocoa.
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- 163.114 Lowfat cocoa.
- 163.117 Cocoa with dioctyl sodium sulfosuccinate for manufacturing.
- 163.123 Sweet chocolate.
- 163.124 White chocolate.
- 163.130 Milk chocolate.
- 163.135 Buttermilk chocolate.
- 163.140 Skim milk chocolate.
- 163.145 Mixed dairy product chocolates.
- 163.150 Sweet cocoa and vegetable fat coating.
- 163.153 Sweet chocolate and vegetable fat coating.
- 163.155 Milk chocolate and vegetable fat coating.

AUTHORITY: 21 U.S.C. 321, 331, 341, 343, 348, 371, 379e.

SOURCE: 58 FR 29529, May 21, 1993, unless otherwise noted.

Subpart A—General Provisions

§ 163.5 Methods of analysis.

Shell and cacao fat content in cacao products shall be determined by the following methods of analysis prescribed in "Official Methods of Analysis of the Association of Official Analytical Chemists," which are incorporated by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from the AOAC INTERNATIONAL, 481 North Frederick Ave., suite 500, Gaithersburg, MD 20877, or may be examined at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

(a) Shell content—12th ed. (1975), methods 13.010–13.014, under the heading "Shell in Cacao Nibs—Official Final Action," pp. 208–210.

(b) Fat content—15th ed. (1990), method 963.15, under the heading "Fat in