

Model Regulations for Pet Food and Specialty

Pet Food Under the Model Bill

Section Editor—Stan Cook, MO

These Model Regulations are approved by the Association of American Feed Control Officials (AAFCO) under the Model Bill and in conjunction with the Model Regulations. States proposing to adopt these Model Regulations for Pet Food and Specialty Pet Food under their own state feed law are encouraged to adopt AAFCO’s Model Regulations for feed, which also apply to pet food and specialty pet food, unless otherwise noted within these regulations.

Pursuant to due publication and public hearing required by the provisions of Chapter ___ of the Laws of this State, the ___ has adopted the following Rules and Regulations.

Regulation PF1. Definitions and Terms

The definitions in the Model Bill and Model Regulations shall apply in addition to the following:

- (a) “All Life Stages” means gestation/lactation, growth, and adult maintenance life stages.
- (b) “Family” means a group of products, which are nutritionally adequate for any or all life stages based on their nutritional similarity to a lead product, which has been successfully test-fed according to an AAFCO feeding protocol(s).
- (c) “Immediate Container” means the unit, can, box, tin, bag, or other receptacle or covering in which a pet food or specialty pet food is displayed for sale to retail purchasers, but does not include containers used as shipping containers.
- (d) “Ingredient Statement” means a collective and contiguous listing on the label of the ingredients of which the pet food or specialty pet food is composed.
- (e) “Principal Display Panel” means the part of a label that is most likely to be displayed, presented, shown or examined under normal and customary conditions of display for retail sale.
- (f) “Pet Nutrition Facts” is a graphic box located on the label containing nutritional information for a pet food product.
- (g) “Specialty Pet Nutrition Facts” is a graphic box located on the label containing nutritional information for a specialty pet food product.

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46 **Regulation PF2. Label Format and Labeling**

- 47 (a) Pet food and specialty pet food shall be labeled with the following
48 information prescribed in this Regulation:
- 49 (1) Product name and brand name, if any, on the principal
50 display panel as stipulated in Regulation PF3;
 - 51 (2) A Statement specifying the species name of pet or specialty pet
52 for which the food is intended, conspicuously designated on
53 the principal display panel;
 - 54 (3) Quantity statement, as defined in Section 3(s) of this Act
55 and Regulation 3(a)(8) of the Model Regulations, by weight
56 (pounds and ounces, and metric), liquid measure (quarts,
57 pints and fluid ounces, and metric) or by count, on the
58 principal display panel;
 - 59 (4) Pet Nutrition Facts or Specialty Pet Nutrition Facts as stipulated in
60 Regulation PF4;
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64 **Regulation PF4. Pet and Specialty Pet Nutrition Facts**

- 65 (a) A Pet Nutrition Facts box shall be displayed in a prominent place on the
66 label of all pet foods (including snacks, treats, and food supplements), but
67 not necessarily on the PDP, utilizing the format displayed in PF4(j) in
68 black type with white background under the heading "Pet Nutrition Facts."
69 The box contains the following required elements:
- 70 (1) The unit of familiar household unit and its weight in grams.
 - 71 (2) A statement of calorie content and meet all of the following:
 - 72 A. The statement shall indicate Calories per the familiar household
73 unit (i.e. can, cup, treat or piece) as shown in the upper left corner
74 of the Pet Nutrition Facts box.
 - 75 B. The statement shall be measured in terms of metabolizable energy
76 (ME) on an "as fed" basis; and
 - 77 C. The calorie content is determined by one of the following
78 methods:
 - 79 i By calculation using the following "Modified Atwater"
80 formula: $ME (kcal/kg) = 10[(3.5 \times CP) + (8.5 \times CF) + (3.5 \times$
81 $NFE)]$, where ME = metabolizable energy, CP = % crude
82 protein "as fed," CF = % crude fat "as fed," NFE = %
83 nitrogen-free extract (carbohydrate) "as fed," and the
84 percentages of CP and CF are the average values of these
85 components in the product as determined by sound scientific
86 methods, such as, but not limited to scientifically accurate
87 calculations made from the formula of the product or upon
88 chemical analysis of the product. The NFE is calculated as the
89 difference between 100 and the sum of CP, CF, and the

- 90 percentages of crude fiber, moisture and ash (determined in the
91 same manner as CP and CF); or
92 ii In accordance with a testing procedure established by AAFCO.
93 D. An affidavit shall be provided upon the request of _____,
94 substantiating that the calorie content was determined by:
95 i Regulation PF4(a)(1)(C)(i) in which case the summary data
96 used in the calculation shall be included in the affidavit; or
97 ii Regulation PF4(a)(1)(C)(ii) in which case the summary data
98 used in the determination of calorie content shall accompany
99 the affidavit.
100 E. The calorie content statement shall appear as one of the following:
101 i The heading “Calories per (familiar household unit)” on the
102 label or other labeling shall be followed parenthetically by the
103 word “calculated” when the calorie content is determined in
104 accordance with Regulation PF4(a)(1)(C)(i); or
105 ii The heading “Calories per (familiar household unit)” on the
106 label or other labeling shall be followed parenthetically by the
107 word “fed” when the calorie content is determined in
108 accordance with Regulation PF4(a)(1)(C)(ii).
109 F. Below the calorie content statement, the number of calories
110 contributed by Protein, Fat and Carbohydrate shall be declared
111 after the heading “From:” in kcal.
112 (3) The “Guaranteed Amount” values shall be listed in the following order
113 and the format shown in PF4(j) unless otherwise specified in these
114 Regulations:
115 A. A pet food label shall list the following required guaranteed
116 amounts based upon the following tests;
117 i Protein is minimum percentage of crude protein
118 ii Fat is minimum percentage of crude fat;
119 iii Total Carbohydrate is maximum percentage equal to $[100 -$
120 $(\text{Crude Protein} + \text{Crude Fat} + \text{Moisture} + \text{Ash})]$ (designated on
121 small packages as Carb);
122 iv Dietary Fiber is maximum percentage of total dietary fiber
123 (designated on small packages as Fiber) ;
124 v Moisture is maximum percentage of moisture; and
125 vi Maximum percentage of crude fat shall be listed as Fat Max
126 between Fat Min and Total Carbohydrate if required by
127 Regulation PF 9;
128 vii Additional required or voluntary guarantees shall follow
129 moisture.
130 B. When ash is listed in the guaranteed amount on a pet food label, it
131 shall be guaranteed as a maximum percentage and shall
132 immediately follow moisture.
133 C. When listed on the label of a dog or cat food product, guarantees
134 for dietary starch and sugars shall be stated as maximum
135 guaranteed amounts. Neither guaranteed amount shall be listed
136 without the other. The guaranteed amount for dietary starch shall
137 follow dietary fiber. The guaranteed amount for sugars shall
138 follow dietary starch.
139 D. A dog or cat food label shall list other additional required or
140 voluntary guaranteed amounts in the same order and units of the

- 141 nutrients in the AAFCO Dog (or Cat) Food Nutrient Profiles
142 following ash, if also listed, or moisture if ash is not listed.
143 Guaranteed amounts for substances not listed in the AAFCO Dog
144 (or Cat) Food Nutrient Profiles, or not otherwise provided for in
145 these Regulations, shall immediately follow the listing of the
146 recognized nutrients and shall be accompanied by an asterisk
147 referring to the disclaimer “not recognized as an essential nutrient
148 by the AAFCO Dog (or Cat) Food Nutrient Profiles.” The
149 disclaimer shall appear immediately after the last such guaranteed
150 amount in the same size type as the guarantees.
- 151 (4) The “Amount of Nutrient per Familiar Household Unit” for each
152 “Guaranteed Amount” is determined by multiplying the Guaranteed
153 Amount percentage by the number of grams in the familiar household
154 unit. On large packages, this can be found in the upper right (C). On
155 small packages, this is the weight in grams of the container.
- 156 (b) A Specialty Pet Nutrition Facts box shall be displayed in a prominent place
157 on the label of all specialty pet foods, but not necessarily on the PDP,
158 utilizing the format displayed in PF4(k) in black type with white
159 background under the heading “Specialty Pet Nutrition Facts.” The box
160 contains the following required elements:
- 161 (1) The unit of familiar household unit and its weight in grams
162 (2) The “Guaranteed Amount” values shall be listed in the following order
163 and format shown in in PF4(k) unless otherwise specified in these
164 Regulations:
- 165 A. A specialty pet food label shall list the following required
166 guaranteed amounts based upon the following tests;
- 167 i Protein is minimum percentage of crude protein
168 ii Fat is minimum percentage of crude fat;
169 iii Total Carbohydrate is maximum percentage equal to $[100 -$
170 $(\text{Crude Protein} + \text{Crude Fat} + \text{Moisture} + \text{Ash})]$ (designated on
171 small packages as Carb);
172 iv Dietary Fiber is maximum percentage of total dietary fiber
173 (designated on small packages as Fiber); and
174 v Moisture is maximum percentage of moisture;
175 vi Additional required or voluntary guarantees shall follow
176 moisture.
- 177 B. When ash is listed in the guaranteed amount on a specialty pet
178 food label, it shall be guaranteed as a maximum percentage and
179 shall immediately follow moisture.
- 180 C. A specialty pet food label shall list other additional required or
181 voluntary guaranteed amounts in the same order and units of the
182 nutrients in an AAFCO-recognized nutrient profile for the specific
183 species; however, if no species-specific AAFCO- recognized
184 nutrient profile is available, the order and units shall follow the
185 same order and units of nutrients in the AAFCO Cat Food Nutrient
186 Profile following ash, if also listed, or moisture if ash is not listed.
187 Guaranteed amounts for substances not listed in an AAFCO
188 recognized nutrient profile for the specific species of animal shall
189 immediately follow the listing of recognized nutrients and shall be
190 accompanied by an asterisk referring to the disclaimer “not
191 recognized as an essential nutrient by the _____.” (Blank is to

- 192 be completed by listing the specific AAFCO recognized nutrient
193 profile.) This disclaimer shall appear immediately after the last
194 such guaranteed amount in the same size type as the guarantees.
195 No such disclaimer shall be required unless an AAFCO-
196 recognized nutrient profile is available for the specific species of
197 specialty pet.
- 198 (3) The “Amount of Nutrient per Familiar Household Unit” for each
199 “Guaranteed Amount” is determined by multiplying the Guaranteed
200 Amount percentage by the number of grams in the familiar household
201 unit. On large packages, this can be found in the upper right (C). On
202 small packages, this is the weight in grams of the container.
- 203 (c) The sliding scale method of expressing a guaranteed amount on a pet food
204 or specialty pet food label (for example, “Protein 15–18% Min”) is
205 prohibited.
- 206 (d) The Pet Nutrition Facts or Specialty Pet Nutrition Facts box of a pet food
207 or a specialty pet food which is formulated as and represented to be a
208 mineral supplement shall include:
- 209 (1) Minimum guaranteed amounts for all minerals from sources declared
210 in the ingredient statement and established by an AAFCO-recognized
211 nutrient profile, expressed as the element in units specified in the
212 nutrient profile; or
- 213 (2) Minimum guaranteed amounts for all minerals from sources declared
214 in the ingredient statement expressed as the element in units specified
215 in the AAFCO Cat Food Nutrient Profiles when no species-specific
216 nutrient profile has been recognized by AAFCO; and provided that
- 217 (3) Mineral guaranteed amounts required by Regulation PF4 (d)(1) and (2)
218 may be expressed in units consistent with the AAFCO nutrient profiles
219 and in milligrams (mg) per unit (e.g., tablets, capsules, granules, or
220 liquids) consistent with those employed in the quantity statement and
221 directions for use; and
- 222 (e) The Pet Nutrition Facts or Specialty Pet Nutrition Facts box of a pet food
223 or a specialty pet food which is formulated as and represented to be a
224 vitamin supplement shall include:
- 225 (1) Minimum guaranteed amounts for all vitamins from sources declared
226 in the ingredient statement and established by an AAFCO-recognized
227 nutrient profile, expressed in units specified in the nutrient profile; or
- 228 (2) Minimum guaranteed amounts for all vitamins from sources declared
229 in the ingredient statement expressed in units specified in the AAFCO
230 Cat Food Nutrient Profiles when no species-specific nutrient profile
231 has been recognized by AAFCO; and provided that
- 232 (3) Vitamin guaranteed amounts required by Regulation PF4(e)(1) and (2),
233 may be expressed in units consistent with the AAFCO nutrient profiles
234 and in approved units (e.g., IU, mg, g) per unit (e.g., tablets, capsules,
235 granules, or liquids) consistent with those employed in the quantity
236 statement and directions for use; and
- 237 (f) When the label of a pet food or specialty pet food includes a comparison of
238 the nutrient content of the food with levels established by an AAFCO-
239 recognized nutrient profile such as a table of comparison, a percentage, or
240 any other designation referring to an individual nutrient or all of the
241 nutrient levels, the following apply:
- 242 (1) The product shall meet the AAFCO-recognized nutrient profile; and

- 243 (2) The statement of comparison shall be preceded by a statement that the
 244 product meets the AAFCO-recognized profile: however, the statement
 245 that the product meets the AAFCO-recognized nutrient profile is not
 246 required provided that the nutritional adequacy statement as per
 247 Regulation PF7(a)(1) or PF7(b)(2)(A) appears elsewhere on the
 248 product label; and
- 249 (3) The statement of comparison of the nutrient content shall constitute a
 250 guarantee, but need not be repeated in the guaranteed amount column;
 251 and
- 252 (4) The statement of comparison may appear on the label separate and
 253 apart from the guaranteed amount column.
- 254 (g) The maximum moisture declared on a pet food or specialty pet food label
 255 shall not exceed 78.00% or the natural moisture content of the ingredients,
 256 whichever is higher. However, pet food and specialty pet food such as, but
 257 not limited to, those consisting principally of stew, gravy, sauce, broth,
 258 aspic, juice, or a milk replacer, and which are so labeled, may contain
 259 moisture in excess of 78.00%.
- 260 (h) Guarantees for protein, fat, total carbohydrate and dietary fiber are not
 261 required when the pet food or specialty pet food is intended for purposes
 262 other than to furnish these substances or they are of minor significance
 263 relative to the primary purpose of the product, such as a mineral or vitamin
 264 supplement.
- 265 (i) Guaranteed amounts for microorganisms and enzymes shall be stated in
 266 the format as stipulated in Model Regulations 4(g) and (h). The “Amount
 267 of Nutrient per Familiar Household Unit” column should be left blank. For
 268 enzymes, the explanation of activity units should follow the disclaimer
 269 within the box.
- 270 (j) Pet Nutrition Facts Formatting Guide:

272 Minimum requirement for packages with a total printable
 273 area greater than or equal to 40 square inches.

274 [IMAGE 1]

Pet Nutrition Facts		
(A)		(B) = (C)g
Calories Per (A) (D)		
From: Protein (F), Fat (G), Carbohydrate (H) (E)		
Nutrients	Guaranteed Amount	Amount of Nutrient Per (A)
Protein	(O) % Min	(S)g
Fat	(O) % Min	(S)g
Total Carbohydrate	(O) % Max	(S)g
(K) Dietary Fiber	(O) % Max	(S)g
Moisture	(O) % Max	(S)g

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Minimum requirement for packages with a total printable

278 area less than 40 square inches (small packages).
 279 [IMAGE 2]



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Sample format for packages with a total printable area greater than or equal to 40 square inches with voluntary guaranteed amounts per PF4 or required additional guaranteed amounts per PF9.

[IMAGE 3]

Pet Nutrition Facts		
(A)		(B) = (C)g
Calories Per (A) (D)		
From: Protein (F), Fat (G), Carbohydrate (H) (E)		
Nutrients	Guaranteed Amount	Amount of Nutrient Per (A)
Protein	(Q) % Min	(S)g
Fat	(Q) % Min	(S)g
(J) Fat	(Q) % Max	(S)g
Total Carbohydrate	(Q) % Max	(S)g
(K) Dietary Fiber	(Q) % Max	(S)g
Dietary Starch	(Q) % Max	(S)g
Sugars	(Q) % Max	(S)g
Moisture	(Q) % Max	(S)g
(L) Ash	(Q) % Max	(S)g
(M)	(T) (Min or Max)	(U)
(N)*	(V) (Min or Max)	(W)

(O)* Not recognized as an essential nutrient by the AAFCO
(P) Food Nutrient Profiles.
(X) [Explanation of enzyme units]

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Sample format for packages with a total printable area less than 40 square inches with voluntary guaranteed amounts per PF4 or required additional guaranteed amounts per PF9.

[IMAGE 4]

Specialty Pet Nutrition Facts Per (A) Nutrient Guarantees/Amount per	
(A): Protein (O) % Min/ (R)g, Fat (O) % Min/ (R)g, Fat (O) % Max/ (R)g, Carb (O) % Max/ (R)g, (X) Fiber (O) % Max/ (R)g, Starch (O) % Max/ (R)g, Sugars (O) % Max/ (R)g, Moisture (O) % Max/ (R)g, (L) Ash (O) % Max/ (R)g, (M) (T) (Min or Max)/ (U), (N) (V) (Min or Max)/ (W), (O)*	Not recognized as an essential nutrient by the AAFCO. (P) Food Nutrient Profiles, (X) Explanation of enzyme units)

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Key for Generic Pet Nutrition Facts Box.

- 297 *Note: Letters below correspond to white letters in black*
298 *circles located on the facts box examples above.*
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300 **(A)** Familiar household unit, for example 1 can, 1 tray, 1
301 pouch, 1 unit of product (treat, piece, etc.), 1 cup, 1
302 teaspoon.
303 **(B)** If unit cited in A needs explanation, provide within the
304 parentheses, for example: “1 cup (8 oz. Standard
305 Measuring Cup).” If no explanation is needed, this
306 element is not required.
307 **(C)** Weight in grams of familiar household unit cited in A.
308 In cases of non-uniform products that are reported per
309 piece, indicate the average weight and add “(avg)” after
310 the weight.
311 **(D)** Insert “calculated” or “fed” within the parentheses as
312 appropriate per PF4(a)(2)(E) i or ii.
313 **(E)** Insert value per PF4(a)(2)(C).
314 **(F)** Insert number of kilocalories contributed by protein as
315 determined by PF4(a)(2)(C).
316 **(G)** Insert number of kilocalories contributed by fat as
317 determined by PF4(a)(2)(C).
318 **(H)** Insert number of kilocalories contributed by
319 carbohydrate as determined by PF4(a)(2)(C).
320 **(J)** Insert a second row for Fat, with guaranteed maximum
321 amount if required by Regulation PF9.
322 **(K)** Dietary Fiber shall be indented on the line below Total
323 Carbohydrate. Insert rows with the same indentation
324 following Dietary Fiber when Dietary Starch and Sugars is
325 provided.
326 **(L)** Insert a row following moisture when a guaranteed
327 amount for ash is provided.
328 **(M)** Insert row(s) for other additional required or voluntary
329 guarantees listed as essential nutrients under a double
330 bolded line per PF4(a)(3)(D).
331 **(N)** Insert rows for voluntary guarantees for non-essential
332 nutrients per PF4(a)(3)(D).
333 **(O)** This disclaimer is only required when guaranteed
334 amounts for non-essential nutrients are included per
335 PF4(a)(3)(C) or (D).

- 336 **(P)** Insert “Cat” or “Dog” as appropriate to intended use of
337 product.
- 338 **(Q)** Insert appropriate guaranteed amounts as specified in
339 PF4(a)(3)(A) i – v
- 340 **(R)** *For small packages only*, insert appropriate value
341 determined by multiplying the decimal equivalent of
342 guaranteed amount by the total weight contained in A (ie
343 for a guaranteed amount of 23% and a weight in grams in
344 A of 30, move the decimal on the percent value two places
345 to the left (0.23) and multiply by the weight of the familiar
346 household unit (30) to get a 6.9 value for R).
- 347 **(S)** Insert appropriate value determined by multiplying the
348 decimal equivalent of guaranteed amount by the value
349 cited in C. (ie for a guaranteed amount of 23% and a
350 weight in grams in C of 90, move the decimal on the
351 percent value two places to the left (0.23) and multiply by
352 the weight of the familiar household unit (90) to get 20.7
353 value for S).
- 354 **(T)** The guaranteed amount shall be listed according to the
355 same units of the nutrients in the AAFCO Dog (or Cat) Food
356 Nutrient Profiles.
- 357 **(U)** Calculate value per T. Report in grams per familiar
358 household unit for guaranteed amounts that are
359 percentages as per calculation shown in S. When other
360 units are used, report as appropriate (e.g. for a guaranteed
361 amount in IU/kg report in IU, for a guaranteed amount in
362 mg/kg report in mg, etc).
- 363 **(V)** The guaranteed amount shall be reported in units
364 consistent with intended use (e.g. percentage, mg/kg,
365 etc.). Guarantees for microorganisms and enzymes shall be
366 stated in the format as stipulated in model reg. 4(g) and
367 4(h).
- 368 **(W)** Calculate value per V. Report in grams per familiar
369 household unit for guaranteed amounts that are
370 percentages as per calculation shown in S. When other
371 units are used, report as appropriate (e.g. for a guaranteed
372 amount in IU/kg report in IU, for a guaranteed amount in
373 mg/kg report in mg, etc.).
- 374 **(X)** Provide an explanation of enzyme units, if necessary.

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(k) Specialty Pet Nutrition Facts Formatting Guide:

Minimum requirement for packages with a total printable area greater than or equal to 40 square inches.

[IMAGE 5]

Specialty Pet Nutrition Facts		
(A)		(B) = (C)g
Nutrients	Guaranteed Amount	Amount of Nutrient Per (A)
Protein	(C) % Min	(S)g
Fat	(C) % Min	(S)g
Total Carbohydrate	(C) % Max	(S)g
Dietary Fiber	(C) % Max	(S)g
Moisture	(C) % Max	(S)g

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Minimum requirement for packages with a total printable area less than 40 square inches (small packages).

[IMAGE 6]

Specialty Pet Nutrition Facts Per (A) Nutrient Guarantees/Amount per (A): Protein (D) % Min/ (R) g, Fat (D) % Min/ (R) g, Carb (E) % Max/ (F) g, Fiber (E) % Max/ (F) g, Moisture (D) % Max/ (R) g

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Sample format for packages with a total printable area greater than or equal to 40 square inches with voluntary guaranteed amounts per PF4.

[IMAGE 7]

Specialty Pet Nutrition Facts		
(A)	(B) = (C)g	
Nutrients	Guaranteed Amount	Amount of Nutrient Per (A)
Protein	(C) % Min	(S) g
Fat	(C) % Min	(S) g
(J) Fat	(C) % Max	(S) g
Total Carbohydrate	(C) % Max	(S) g
Dietary Fiber	(C) % Max	(S) g
Moisture	(C) % Max	(S) g
(K) Ash	(C) % Max	(S) g
(L)	(T) (Min or Max)	(U)
(M)*	(V) (Min or Max)	(W)

(N)* Not recognized as an essential nutrient by the AAFCO
(P) Food Nutrient Profiles.
(X) [Explanation of enzyme units]

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Sample format for packages with a total printable area less than 40 square inches with voluntary guaranteed amounts per PF4.

[IMAGE 8]

Specialty Pet Nutrition Facts Per (A) Nutrient Guarantees/Amount per (A) :		
Protein (C) % Min/ (R) g,	Fat (C) % Min/ (R) g,	Fat (C) % Max/ (R) g, Carb (C) % Max/ (R) g, Fiber (C) % Max/ (R) g, Moisture (C) % Max/ (R) g, K Ash (C) % Max/ (R) g,
(L) (T) (Min or Max)/ (U) (M) (V) (Min or Max)/ (W), (N)*	Not recognized as an essential nutrient by the AAFCO (P) Food Nutrient Profiles, (X) (Explanation of enzyme units)	

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Key for Generic Specialty Pet Nutrition Facts Box.

Note: Letters below correspond to white letters in black circles conveniently located on the facts box examples above.

(A) Familiar household unit, for example 1 can, 1 tray, 1 pouch, 1 unit of product (treat, piece, etc.), 1 cup, 1 teaspoon.

(B) If unit cited in A needs explanation, provide within the parentheses, for example: "1 cup (8 oz. Standard Measuring Cup)." If no explanation is needed, this element is not required.

(C) Weight in grams of familiar household unit cited in A. In cases of non-uniform products that are reported per piece, indicate the average weight and add "(avg)" after the weight.

(K) Insert a row following moisture when a guaranteed

- 418 amount for ash is provided.
- 419 **(L)** Insert row(s) for other required or voluntary
- 420 guarantees listed as essential nutrients under a double
- 421 bolded line per PF4(b)(2)(C)
- 422 **(Q)** Insert appropriate guaranteed amounts as specified in
- 423 PF4(b)(2)(A) i – v.
- 424 **(R)** *For small packages only*, insert appropriate value
- 425 determined by multiplying the decimal equivalent of
- 426 guaranteed amount by the total weight contained in A (ie
- 427 for a guaranteed amount of 23% and a weight in grams in
- 428 A of 30, move the decimal on the percent value two places
- 429 to the left (0.23) and multiply by the weight of the familiar
- 430 household unit (30) to get a 6.9 value for R).
- 431 **(S)** Insert appropriate value determined by multiplying the
- 432 decimal equivalent of guaranteed amount by the value
- 433 cited in C. (ie for a guaranteed amount of 23% and a
- 434 weight in grams in C of 90, move the decimal on the
- 435 percent value two places to the left (0.23) and multiply by
- 436 the weight of the familiar household unit (90) to get 20.7
- 437 value for S).
- 438 **(T)** The guaranteed amount shall be listed according to the
- 439 same units of the nutrients required in PF(b)(2)(C).
- 440 **(U)** Calculate value per T. Report in grams per familiar
- 441 household unit for guaranteed amounts that are
- 442 percentages as per calculation shown in S. When other
- 443 units are used, report as appropriate (e.g. for a guaranteed
- 444 amount in IU/kg report in IU, for a guaranteed amount in
- 445 mg/kg report in mg, etc).
- 446 **(V)** The guaranteed amount shall be reported in units
- 447 consistent with intended use (e.g. percentage, mg/kg,
- 448 etc.). Guarantees for microorganisms and enzymes shall be
- 449 stated in the format as stipulated in model reg. 4(g) and
- 450 4(h).
- 451 **(W)** Calculate value per V. Report in grams per familiar
- 452 household unit for guaranteed amounts that are
- 453 percentages as per calculation shown in S. When other
- 454 units are used, report as appropriate (e.g. for a guaranteed
- 455 amount in IU/kg report in IU, for a guaranteed amount in
- 456 mg/kg report in mg, etc.).

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(X) Provide an explanation of enzyme units, if necessary.

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