codex alimentarius commission



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS





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Agenda Item 4

CRD 1

JOINT FAO/WHO FOOD STANDARDS PROGRAMME

CODEX COMMITTEE ON PROCESSED FRUITS AND VEGETABLES Twenty-first Session San Antonio, Texas, U.S.A. , 23-27 September 2002

Comments on Proposed Draft Standards at Step 4

(5) PROPOSED DRAFT CODEX STANDARD FOR CANNED TOMATOES and (6) PROPOSED DRAFT CODEX STANDARD FOR PROCESSED TOMATO CONCENTRATES

The following comments have been received from the World Processing Tomato Council (WPTC).

PROPOSED DRAFT CODEX STANDARD FOR CANNED TOMATOES

CODEX draft for revised standard	WPTC consensus position with	Comments
CL 1997/1FPV October 97	In bold letters the WPTC's additions	
	In barred letters the WPTC's suppressions	
	From the CODEX draft for revised standard CL	
	1997/1FPV October 97	
	SCOPE	A scope should be added
	This Standard applies to product as defined in	•
	Section 1.1. The Standard does not include the canned	
	tomatoes containing other vegetables such as pepper	
	and onions in quantities that materially alter the	
	flavour, aroma and taste of the tomato component.	HS custom item 200210: Tomato prepared
	These products are classified in the Harmonised	or preserved otherwise than by vinegar or
	System Customs Tariff under the code 200210 (all	acetic acid : whole or in pieces
	products classified in the Harmonised System	
	Customs Tariff under the code 200490 mixure of	
	vegetables are not concerned with this standard)	
1. DESCRIPTION	1. DESCRIPTION	
1.1 Product Definition	1.1 Product Definition	
Canned tomatoes is the product:	Canned tomatoes is the product:	
(a) prepared from washed, ripened tomatoes, conforming	(a) Prepared from washed, ripened tomatoes, conforming	
to the characteristics of the fruit of Lycopersicum	to the characteristics of the fruit of Lycopersicum	
esculentum P. Mill, of red or reddish varieties (cultivars)	esculentum P. Mill, of red or reddish varieties (cultivars	
which are clean and which are substantially sound;	and hybrids) which are clean and which are substantially	Add the term "hybrids"
(b) packed with or without a suitable liquid packing	sound;	
medium (other than added water), and seasoning	(b) packed with or without a suitable liquid packing	
ingredients appropriate to the product; and	medium (other than added water), and seasoning	Cancel other than water added which could
(c) heat processed in an appropriate manner before or after	ingredients appropriate to the product; and	be use especially in non-peeled canned
being hermetically sealed in containers so as to prevent	(c)heat processed in an appropriate manner before or	tomatoes
spoilage. The tomatoes shall have had the stems and	after being hermetically sealed in containers so as to	
calices removed and shall have been cored, except where	prevent spoilage. The tomatoes shall have had the stems	
the internal core is insignificant as to texture and	and calices removed and shall have been cored, except	
appearance.	where the internal core is insignificant as to texture and	
	appearance.	

Tomates of distinct varietal groups with respect to shape or other similar physical characteristics may be designated asTomatoes of distinct varietal groups with respect to shape or other similar physical characteristics may be designated asAnnex 1.1.1 Round: globular or semi-globular shape. Annex 1.2.1 Round: globular or semi-globular or semi-globular shape.1.2.1 Round: globular or semi-globular shape. 1.2.2. ear or Egg or Plum; elongated shape.Annex 1.2 Styles Canned tomatoes in these styles are normally prepared with peel removed; if the peel is not removed, the style is considered additionally as "Unpeeled": Annex 1.2.1 Whole Annex 1.2.2 Whole and Pieces Annex 1.2.4 Diced Annex 1.2.4 Diced Annex 1.2.5 Sliced Annex 1.2.6 Wedges1.3 Styles Canned tomatoes in the product: (a) is sufficiently distinctive from other forms of presentation of the product shall be permitted provided that the product: (a) is sufficiently distinctive from other forms of presentation ald down in this standard, including requirements of this standard, including requirements of this standard, including requirements in this standard which are applicable to that style in the standard which most closely resembles the style or styles intended to be provided for under this provision. (c) is adequately described on the label to avoid confusing or misleading the consumer.1.4 Other Styles Any other requirements in this standard which are applicable to that style in the standard which most closely resembles the style or styles intended to be provided for under this provision. (c) is adequately described on the label to avoid confusing or misleading the consumer.1.4 Other Styles Any other requirements in this standard which are applicable to that style in the standard which most closely resembles the st	Annex 1.1 Varietal type	1.2 Varietal type	Point 1 of the annex to be restored here without alteration
Canned tomatoes in these styles are normally prepared with peel removed; if the peel is not removed, the style is considered additionally as "Unpeeled": Annex 1.2.1 Whole Annex 1.2.2 Whole and Pieces Annex 1.2.4 Diced Annex 1.2.5 Sliced Annex 1.2.5 Sliced Annex 1.2.6 WedgesCanned tomatoes in these styles are normally prepared with peel removed; if the peel is not removed, the style is considered additionally as "Unpeeled": 1.3.1 Whole 1.3.2 Whole and Pieces 1.3.3 Whole and Pieces 1.3.4 Diced 1.3.5 Sliced 1.3.6 WedgesAnnex 1.2.6 Wedges1.3.6 WedgesAnnex 1.3 Other Styles Any other presentation of the product shall be permitted provided that the product: (a) is sufficiently distinctive from other forms of presentation laid down in this standard; (b) meets all relevant requirements of this standard, including requirements relating to limitations on defects, drained weight, and any other requirements in this standard which are applicable to that style in the standard which most closely resembles the style or styles intended to be provided for under this provision. (c) is adequately described on the label to avoid confusing or misleading the consumer.1.4 Other Styles Any other requirements relating to limitations on defects, drained weight, and any other requirements in this standard which are applicable to that style in the standard which most closely resembles the style or styles intended to be provided for under this provision. (c) is adequately described on the label to avoid confusing or misleading the consumer.1.4 Other Styles Any other requirements of this standard, including requirements relating to limitations on defects, drained weight, and any other requirements in this standard which are applicable to that style in the standard which most closely resembles the st	or other similar physical characteristics may be designated as Annex 1.1.1 Round: globular or semi-globular shape.	or other similar physical characteristics may be designated as 1.2.1 Round: globular or semi-globular shape.	
Any other presentation of the product shall be permitted provided that the product:Any other presentation of the product shall be permitted provided that the product:(a) is sufficiently distinctive from other forms of presentation laid down in this standard;Any other presentation of the product shall be permitted provided that the product:(a) is sufficiently distinctive from other forms of presentation laid down in this standard;(a) is sufficiently distinctive from other forms of presentation laid down in this standard;(b) meets all relevant requirements relating to limitations on defects, 	Canned tomatoes in these styles are normally prepared with peel removed; if the peel is not removed, the style is considered additionally as "Unpeeled": Annex 1.2.1 Whole Annex 1.2.2 Whole and Pieces Annex 1.2.3 Pieces Annex 1.2.4 Diced Annex 1.2.5 Sliced	Canned tomatoes in these styles are normally prepared with peel removed; if the peel is not removed, the style is considered additionally as "Unpeeled": 1.3.1 Whole 1.3.2 Whole and Pieces 1.3.3 Pieces 1.3.4 Diced 1.3.5 Sliced	
Annex 1.4 Types of Pack 1.5 Types of PackAnnex 1.4.1 Regular Pack – with a liquid medium added. 1.5.1 Regular Pack – with a liquid medium added.Annex 1.4.2 Solid Pack – without any added liquid. 1.5.2 Solid Pack – without any added liquid.	Any other presentation of the product shall be permitted provided that the product: (a) is sufficiently distinctive from other forms of presentation laid down in this standard; (b) meets all relevant requirements of this standard, including requirements relating to limitations on defects, drained weight, and any other requirements in this standard which are applicable to that style in the standard which most closely resembles the style or styles intended to be provided for under this provision. (c) is adequately described on the label to avoid confusing or misleading the consumer. Annex 1.4 Types of Pack Annex 1.4.1 Regular Pack – with a liquid medium added.	 Any other presentation of the product shall be permitted provided that the product: (a) is sufficiently distinctive from other forms of presentation laid down in this standard; (b) meets all relevant requirements of this standard, including requirements relating to limitations on defects, drained weight, and any other requirements in this standard which are applicable to that style in the standard which most closely resembles the style or styles intended to be provided for under this provision. (c) is adequately described on the label to avoid confusing or misleading the consumer. 1.5 Types of Pack 1.5.1 Regular Pack – with a liquid medium added. 	

Annex 1.4.3 Flavoured or Stewed or Seasoned – packed with vegetable ingredients, such as onions, peppers, and celery, not exceeding 10% m/m of the product.	1.5.3 Flavoured or Stewed or Seasoned – packed with vegetable ingredients, such as onions, peppers, and celery, not exceeding 10% m/m of the product.	Cancel the possibility to have other vegetables, not possible in the custom Harmonized System
 2. ESSENTIAL COMPOSITION AND QUALITY FACTORS 2.1 Composition 2.1.1 Basic Ingredients Tomatoes as described in Section 1.1 and liquid packing medium appropriate to the product. 2.1.2 Packing Media Compad tomatoes much a peaked in the following peaking 	 ESSENTIAL COMPOSITION AND QUALITY FACTORS Composition I Composition I Basic Ingredients Tomatoes as described in Section 1.1 and liquid packing medium appropriate to the product. I Packing Media Compad temptage may be peopled in the following 	
Canned tomatoes may be packed in the following packing media: 2.1.2.1 Juice: the unconcentrated, undiluted liquid from ripened tomatoes.	Canned tomatoes may be packed in the following packing media: 2.1.2.1 Juice: the unconcentrated, undiluted liquid from ripened tomatoes.	
2.1.2.2 Residual material: the liquid strained from the residue from preparing tomatoes for canning.2.1.2.3 Puree or Pulp: tomato puree or pulp (concentrated	 2.1.2.2 Residual material: the liquid strained from the residue from preparing tomatoes for canning. 2.1.2.3 Puree or Pulp: skinless tomato-puree or pulp 	Cancel puree in this point and precise that
tomato juice). 2.1.2.4 Paste: tomato paste (highly concentrate tomato liquid)	(concentrated tomato juice). 2.1.2.4 Paste: tomato paste (highly concentrate tomato liquid) Puree or Paste as describe in the CODEX standards	tomato pulp must be skinless Merge puree and paste and link with the Codex standards on Tomato Concentrate
	2.1.2.5 Water only in unpeeled canned tomatoes	See point 1.1 (b) and 1.3
Other Permitted Ingredients (a) spices , spice oils; (b) seasoning; (c)starch, (d) natural vegetable products (such as onions, pepper, celery) not exceeding in total 10% m/m of the product, (e) salt (sodium chloride); and (f) when acidifying agents are used, sucrose, dextrose, and dried glucose syrup.	Other Permitted Ingredients (a) spices, spice oils, aromatic plants (such as basil leafs) and natural extract; and seasoning; © starch, (d) natural vegetable products (such as onions, pepper, celery) not exceeding in total 10% m/m of the product, (b) salt (sodium chloride); and when acidifying agents are used, sucrose, dextrose, and dried glucose syrup. (c) sugar, with specific labelling	Add aromatic plants and natural extract Delete starch, no need if tomatoes are ripe Other vegetables not permitted in the custom Harmonised System

2.3 Quality Criteria	2.3 Quality Criteria	
Canned tomatoes shall have normal flavour, odour	ave normal flavour, odour and colour and shall possess	
and colour and shall possess texture characteristic of	texture characteristic of the product.	
the product.	2.3.1 Definitions	Point 2. of the annex to be restored here
Annex 2.1 Definitions	2.3.1.1 Whole or Almost Whole: a tomato of any size in	with the following alterations
Annex 2.1.1 Whole or Almost Whole: a tomato of any size in which the contour is not materially altered by coring or trimming, the unit may be readily restored to practically its original conformation; it may be slightly cracked or split but not to the extent that there is a material loss of placenta.	which the contour is not materially altered by coring or trimming, the unit may be readily restored to practically its original conformation; it may be slightly cracked or split but not to the extent that there is a material loss of placenta.	
	2.3.1.2 Objectionable core material: internal core	
Annex2.1.2 Objectionable core material: internal core	material of tough and fibrous texture or tomato tissue representing the tomato core that is definitly	
material of tough and fibrous texture or tomato tissue	objectionable as to appearance and edibility	
representing the tomato core that is definitly objectionable	objectionable as to appearance and earonity	
as to appearance and edibility	2.3.1.3 Blemishes: areas which are abnormal and	
Annex 2.1.3 Blemishes: areas which are abnormal and	contrast strongly in colour and/or texture with the normal	
contrast strongly in colour and/or texture with the normal	tomato tissue and which would normally be removed in	
tomato tissue and which would normally be removed in	the preparation of tomatoes for culinary use.	
the preparation of tomatoes for culinary use.	2.3.1.4 Extraneous plant material: tomato leaves, stems,	
	calyx bracts and similar plant material.	
Annex 2.1.4 Extraneous plant material: tomato leaves,		
stems, calyx bracts and similar plant material.	2.3.1.5 Peel (or skin): considered a defect except in	
Annex 2.1.5 Peel (or skin): considered a defect except in	"Unpeeled" styles, it is that which adheres to the tomato	
"Unpeeled" styles, it is that which adheres to the tomato	flesh or is found loose in the container.	
flesh or is found loose in the container.		
Annex 2.2 Colour	2.3.2 Colour	
	The colour of the drained tomatoes shall have normal	
The colour of the drained tomatoes shall have normal	colour characteristics for tomatoes that have been properly prepared and properly processed. Canned	
colour characteristics for tomatoes that have been properly	tomatoes containing other permitted ingredients shall be	
prepared and properly processed. Canned tomatoes containing other permitted ingredients shall be considered	considered to be of characteristic colour when there is n	
to be of characteristic colour when there is n abnormal	abnormal discoloration for the respective ingredients	
discoloration for the respective ingredients used.	used.	

Annex 2.3 Flavour Canned tomatoes shall have a normal flavour and odour free from flavours or odours foreign to the product and canned tomatoes with special ingredients shall have a flavour characteristic of that imparted by the tomatoes and other substances used.	2.3.3 Flavour Canned tomatoes shall have a normal flavour and odour free from flavours or odours foreign to the product and canned tomatoes with special ingredients shall have a flavour characteristic of that imparted by the tomatoes and other substances used.	
Annex 2.4 Size or Wholeness Size or wholeness, as such, is only a factor in the style designated as "Whole" style. Canned tomatoes of "Whole" style shall consist of not less than 65 % m/m of drained tomatoes in whole or almost whole units, except that in any container there may be one unit that is not whole or almost whole.	 2.3.4 Size or Wholeness Size or wholeness, as such, is only a factor in the style designated as "Whole" style. Canned tomatoes of "Whole" style shall consist of not less than 65% m/m of drained tomatoes in whole or almost whole units, except that in any container there may be one unit that is not whole or almost whole. 2.3.5 Allowances for Defects 	In cans of more than 400 cc, there are more breaks during rotative sterilization, and in this case, the maximum level of wholeness technically possible is 65% instead of 80% (Italy is the major producer of whole peeled tomatoes and the Italian regulation set the level of 65% (for wholeness)
Annex 2.5 Allowances for Defects The finished product shall be prepared from such materials and under such practices that it shall be substantially free from objectionable core material and extraneous plant material and shall not contain excessive defects whether specifically mentioned in this standard or not. Certain common defects shall not be present in amounts greater than the following limitations:	2.3.5 Allowances for Defects The finished product shall be prepared from such materials and under such practices that it shall be substantially free from objectionable core material and extraneous plant material and shall not contain excessive defects whether specifically mentioned in this standard or not. Certain common defects shall not be present in amounts greater than the following limitations:	level of 65% for wholeness)
Annex 2.5.1 Peel: (except in "Unpeeled" styles) Whole peeled: average – not more than 15 square centimetres aggregate area per kg. of total contents.	 2.3.5.1 Peel: (except in "Unpeeled" styles) Whole peeled: average – not more than 30 square centimetres aggregate area per kg. of total contents. Non Whole peeled: average – not more than 125 square centimetres aggregate area per kg of total contents. 	Allowance 30 cm ² (whole peeled) and 125 cm ² (non-whole peeled) instead of 15 square centimetre per kg because most of
Annex 2.5.2 Blemishes Average – not more than 3.5 square centimetres aggregate area per kg of total contents.	2.3.5.2 Blemishes Average – not more than 3.5 square centimetres aggregate area per kg of total contents.	the processors now used steam peeling system (for whole peeled) or mechanical peeling system (for non-whole peeled) instead of chemical peeling system (more environmentally friendly but leaving more skin)

Lactic Acidlimited by GMPLactic Acidlimited by GMPMalic Acidlimited by GMPMalic Acidlimited by GMPL-Tartaric Acidlimited by GMPL-Tartaric Acidlimited by GMP3.2 Firming Agents3.2 Firming Agents3.2 Firming AgentsOnly Calcium Chloride is currently usually used	A 252M 110 (1	A353M 110 40 1		
or liquid portion may not have more than 50% positive fields. Jaine or liquid portion the liquid obtained by mixing the for PH must be 4.5 Annex 2.6 Classification of "Defectives" A container that fails to meet one or more of the applicable quality requirements as set out in sub-sections 2.3.5 (except peel and blemishes which are based on an average) shall be considered as "defective". Annex 2.7 Acceptance A lot will be considered as meeting the applicable quality requirements as set out in sub-section 2.3.6 when: (a) for those requirements which are not based on an average) shall be considered as meeting the applicable in sub-section 2.3.6 when: (a) for those requirements which are not based on average) shall be considered as meeting the applicable quality requirements which are not based on average) shall be considered as meeting the applicable quality requirements which are not based on average) shall be considered as meeting the applicable quality requirements which are not based on average) shall be considered as meeting the applicable quality requirements which are not based on average) shall be considered as meeting the applicable quality requirements which are not based on average) shall be considered as meeting the applicable quality requirements which are not based on averages, the number of "defectives", as defined in sub-section 2.3.6 does not exceed the acceptance number (c) of the appropriate sampling Plan in the joint FAO/WHO Codex Alimentarius Sampling Plan					
fields. formates and the cover liquid may not have more than 50% positive fields. 2.3.54 Maximum level for PH must be 4.5 Annex 2.6 Classification of "Defectives" 2.3.6 Classification of "Defectives" A container that fuils to meet one or more of the applicable quality requirements as set out in sub-section 2.3.5 (except peel and blemishes which are based on an average) shall be considered as "defective". I's technically more accurate to measure the Howard on the mix than only on the juice. Annex 2.7 Acceptance A lot will be considered as meeting the applicable quality requirements referred to in sub-section 2.3.6 when: (a) for those requirements which are not based on averages, the number of "defectives", as defined in sub-section 2.3.6, does not exceed the acceptance number (c) of the appropriate sampling plan in the joint FAO/WHO Codex Alimentarius Sampling Plans for Prepackaged Foods (1969) (AQL-6.5 (Ref. CAC/RM 42-1969) (See Codex Alimentarius Sampling Plans for Prepackaged Foods (1969) (AQL-6.5 (Ref. CAC/RM 42-1969) (See Codex Alimentarius Summum Level Acceid Limited by GMP 3.1 Accidifying Agents Maximum Level Acceid Limited by GMP Only citric acid is usually used 3.1 FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES Only citric acid is usually used 3.2 Firming Agents 3.2 Firming Agents 3.2 Firming Agents Only Calcium Chloride is currently usually used					
S0% positive fields. 50% positive fields. L's technically more accurate to measure the Howard on the mix than only on the juice. Annex 2.6 Classification of "Defectives" A container that fails to meet one or more of the applicable quality requirements as set out in sub-sections 2.3.2 through 2.3.5 (except peel and blemishes which are based on an average) shall be considered as meeting the applicable quality requirements which are not based on an average) shall be considered as meeting the applicable quality requirements which are not based on an average) shall be considered as meeting the applicable quality requirements which are not based on an average, she number of "defectives", as defined in sub-section 2.3.6, does not exceed the acceptance number (c) of the appropriate sampling plan in the joint FAO/WHO Codex Alimentarius Soupling Plans for Prepackaged Foods (1969) (AQL-6.5 (Ref. CAC/RM 42-1969) (See Codex Alimentarius Soupling Plans for Prepackaged Foods (1969) (AQL-6.5 (Ref. CAC/RM 42-1969) (See Codex Alimentarius Volume 13), and 3. FOOD ADDITIVES 0nly citric acid is usually used 3.1 Acidifying Agents Maximum Level Acetic Acid limited by GMP Late Acid limited by GMP Malie Acid limited by GMP 4.2 Firming Agents 3.2 Firming Agents 3.2 Firming Agents 3.2 Firming Agents 0nly Calcium Chloride is currently usually used		bre than 50% positive			
Annex 2.6 Classification of "Defectives" A container that fails to meet one or more of the applicable quality requirements as set out in sub-section 2.3.2 through 2.3.5 (except peel and blemishes which are based on an average) shall be considered as "defective". Catonainer that fails to meet one or more of the applicable quality requirements as set out in sub-section 2.3.2 through 2.3.5 (except peel and blemishes which are based on an average) shall be considered as "defective". Fix the maximum level for PH at 4.5 using applicable quality requirements which are based on an average) shall be considered as meeting the applicable quality requirements which are not based averages, the number of "defectives", as defined in sub- section 2.3.6, does not exceed the acceptance number of of the appropriate sampling plan in the joint FAO/WHO Codex Alimentarius Sampling Plans for Prepackaged Foods (1969) (AQL-65 (Ref. CACRM 42-1969) (See Codex Alimentarius Volume 13), and (b) the requirements which are based on sample averages are complied with. 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3.1Acidifying Agents Maximum Level Actic Acid Imited by GMP Hatic Acid Imited by GMP Hatic Acid Imited by GMP Hatic Acid 4.2 Firming Agents 3.2 Firming Agents 3.2 Firming Agents Only Cal	fields.		-	hay not have more than	
Annex 2.6 Classification of "Defectives" A container that fails to meet one or more of the applicable quality requirements as set out in sub-sections 3.2 through 2.3.5 (except peel and blemishes which are based on an average) shall be considered as "defective". 3.3 through 2.3.5 (except peel and blemishes which are based on an average) shall be considered as meeting the applicable quality requirements referred to in sub-section 2.3.6 when: (a) for those requirements which are not based on averages, the number of "defectives", as defined in sub- section 2.3.6, does not exceed the acceptance number (c) of the appropriate sampling plan in the joint FAO/WHO Codex Alimentarius Sampling plans for Prepackaged Foods (1969) (AQL-6.5 (Ref. CAC/RM 42-1969) (See Codex Alimentarius Volume 13), and (b) the requirements which are based on sample averages are complied with. 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3. Acciditiving Agents Maximum Level Acetic Acid 1.Imited by GMP Haetic Acid 3. FOOD ADDITIVES 3. Acciditiving Agents 0nly citric acid is usually used 0nly citric acid is usually used 3.1Acidifying Agents Calcium chloride) 3.2 Firming Agents 3.2 Firming Agents 0.1 0nly Calcium Chloride is currently usually used					
Annex 2.6 Classification of "Defectives" 2.36 Classification of "Defectives" Fix the maximum level for pH at 4.5 using applicable quality requirements as set out in sub-sections 2.3.2 through 2.3.5 (except peel and blemishes which are based on an average) shall be considered as "defective". 2.3.7 Acceptance Fix the maximum level for pH at 4.5 using applicable quality requirements as set out in sub-section 2.3.5 (except peel and blemishes which are based on an average) shall be considered as "defective". Fix the maximum level for pH at 4.5 using applicable quality requirements as est out in sub-section 2.3.6 when: (a) for those requirements which are not based on averages, the number of "defectives", as defined in sub-section 2.3.6, does not exceed the acceptance number (c) of the appropriate sampling plan in the joint FAO/WHO Codex Alimentarius Sampling Plans for Prepackaged Foods (1969) (AQL-6.5 (Ref. CAC/RM 42-1969) (See Codex Alimentarius Volume 13), and (b) the requirements which are based on sample averages are complied with. 3 FOOD ADDITIVES 3. FOOD ADDITIVES 3. FOOD ADDITIVES 3.1Acidifying Agents Maximum Level Acetic Acid limited by GMP Slacidifying Agents Maximum Level Acetic Acid Iimited by GMP Actic Acid limited by GMP Lateria Acid limited by GMP Citric Acid limited by GMP 3.2 Firming Agents 3.2 Firming Agents 3.2 Firming Agents 3.2 Firming Agents Only Calcium Chloride is currently usually <td></td> <td></td> <td>2.3.5.4 Maximum level for PH</td> <td>must be 4.5</td> <td>It's technically more accurate to measure the</td>			2.3.5.4 Maximum level for PH	must be 4.5	It's technically more accurate to measure the
A container that fails to meet one or more of the applicable quality requirements as set out in sub-sections 2.3.2 through 2.3.5 (exceept peel and blemishes which are based on an average) shall be considered as "defective". Fix the maximum level for pH at 4.5 using eventually acidifying agent. A container that fails to meet one or more of the applicable quality requirements as set out in sub-sections 2.3.5 (necept peel and blemishes which are based on an average) shall be considered as "defective". Fix the maximum level for pH at 4.5 using eventually acidifying agent. A container that fails to meet one or more of the applicable quality requirements as set out in sub-section 2.3.6 when: Six through 2.3.5 (exceept peel and blemishes which are based on an average) shall be considered as meeting the applicable quality requirements referred to in sub-section 2.3.6 when: Fix the maximum level for pH at 4.5 using eventually acidifying agent. A container that fails to meet one or more of the applicable quality requirements referred to in sub-section 2.3.6 when: Six through 2.3.5 (exceept ance Fix the maximum level for pH at 4.5 using eventually acidifying agent. A container that fails to meet one or more of the appropriate sampling plan in the ipint FAO/WH Codex Alimentarius Sampling Plans for Prepackaged Foods (1969) (AQL-6.5 (Ref. CAC/RM 42-1969) (See Codex Alimentarius Volume 13), and Fix the maximum level Fix the maximum level A container that fails to meet one or more of "defectives", as defined in sub-section 2.3.6 when: Six FOOD ADDITIVES Fix container that fails to meet one or more of "defectives", as defined in sub-section 2.3.6 when: Fix the maximum					Howard on the mix than only on the juice.
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	Calcium sulphate)		Calcium sulphate)	-	

Calcium citrate) Singly or in limited by GMP	Calcium citrate)	Calcium phosphate is not a natural
Mono-calcium) combination	Mono-calcium	ingredient and have not to be permitted
Phosphate)	Phosphate)	Calcium lactate have not to be permitted,
Calcium lactate)	Calcium lactate)	because the presence of lactic acid in
Calcium gluconate)	Calcium gluconate	finished product is due to too long storage
		before processing or during processing. It
		could be the signal of poor processing
		practices.
		Calcium gluconate is never used
CONTAMINANTS	4.CONTAMINANTS	
Canned tomatoes shall comply with the limits for	Canned tomatoes shall comply with the limits for	
contaminants established for that product by the Codex	contaminants established for that product by the Codex	
Alimentarius Commission.	Alimentarius Commission.	
HYGIENE	5.HYGIENE	
	5.1 It is recommended that canned tomatoes be prepared	
and handled in accordance with the Recommended		
	International Code of Practice – General Principles of	
	Food Hygiene (CAC/RCP 1-1969, REV.2-1985), Codex	
	Alimentarius Volume 1) and the Code of Hygienic	
	Practice for Low-Acid and Acidified Low-Acid Canned	
	Foods (CAC/RCP 23-1979, rev.1 1989, Codex	
· ·	Alimentarius Volume 1) and other Codes of Practice	
product.	recommended by the Codex Alimentarius Commission product.	
-	1	
5.2 To the extent possible in good manufacturing practice,	5.2 To the extent possible in good manufacturing	
canned tomatoes shall be free from objectionable matter	practice, canned tomatoes shall be free from	
5.3 When tested by appropriate method of sampling and	objectionable matter	
examination, canned tomatoes:	5.3 When tested by appropriate method of sampling and	
- shall be free from microorganisms capable of	examination, canned tomatoes:	
development in the product under normal conditions of	- shall be free from microorganisms capable of	
storage; and	development in the product under normal conditions of	
	storage; and	
- shall not contain any substance originating from	- shall not contain any substance originating from	
microorganisms in amounts which may represent a	shan not contain any substance originating nom	
hazard to health	hazard to health	

Annex 3 WEIGHT AND MESURE	6 WEIGHT AND MESURE	Point 3 of the annex to be restored here with the following alterations
Annex 3.1 Fill of Container	6.1Fill of Container	
Annex 3 .1.1 Minimum Fill The containers shall be well filled with tomatoes and the product (including packing medium) shall occupy not less than 90% of the water capacity of the container. The water capacity of the container is the volume of distilled water at 20°C which the sealed container will hold when completely filled.	product (including packing medium) shall occupy not	Technical limit higher when packed in glass
	When peeled tomatoes are packed in glass containers, the water capacity shall be reduced by 20ml before the percentage referred to the previous paragraph is	
Annex 3.1.2 Classification of "Defective" A container that fails to meet the requirement for minimum fill (90% container capacity) of sub-section 3.1.1 shall be considered as "defective". Annex 3.1.3Acceptance A lot will be considered as meeting the requirement of sub-section 3.1.1 when the number of "defectives" as defined in sub-section 3.1.2, does not exceed the acceptance number (c) of the appropriate sampling plan in the Joint FAO/WHO Codex Alimentarius Sampling Plans for Prepackaged Foods (1969) (AQL-6.5) (Ref. CAC/RM 42-1969) (see Codex Alimentarius Volume 13). Annex 3.1.4 Minimum Drained Weight	 calculated. 6.1.2 Classification of "Defective" A container that fails to meet the requirement for minimum fill (90% container capacity) of sub-section 6.1.1 shall be considered as "defective". 6.1.3 Acceptance A lot will be considered as meeting the requirement of sub-section 6.1.1 when the number of "defectives" as defined in sub-section 6.1.2, does not exceed the acceptance number (c) of the appropriate sampling plan in the Joint FAO/WHO Codex Alimentarius Sampling Plans for Prepackaged Foods (1969) (AQL-6.5) (Ref. CAC/RM 42-1969) (see Codex Alimentarius Volume 13). 6.1.4 Minimum Drained Weight 	
Annex 3.1.4.1 The drained weight of the product shall be not less than 50% of the weight of distilled water at 20°C which the sealed container will hold when completely filled.	6.1.4.1 The drained weight of the product shall be not less than 50% of the weight of distilled water at 20°C which the sealed container will hold when completely filled.	

Annex 3.1.4.2 The requirements for minimum drained weight shall be deemed to be complied with when the average drained weight of all containers examined is not less than the minimum required, provided that there is no unreasonable shortage in individual containers.	6.1.4.2 The requirements for minimum drained weight shall be deemed to be complied with when the average drained weight of all containers examined is not less than the minimum required, provided that there is no unreasonable shortage in individual containers.	
6 LABELLING Canned tomatoes shall be labelled in accordance with the General Standard for the Labellingof Prepackaged Foods (CODEX STAN 1-1985, Rev.1-1991), Codex Alimentarius Volume 1).The Name of the Product	7 LABELLING Canned tomatoes shall be labelled in accordance with the General Standard for the Labellingof Prepackaged Foods (CODEX STAN 1-1985, Rev.1-1991), Codex Alimentarius Volume 1).The Name of the Product	
6.1 The name of the product6.1.1 The name of the product shall be "tomatoes"	7.1 The name of the product7.1.1 The name of the product shall be "tomatoes" with eventually additional mention of spices, aromatic plants).	No restoration of the Annex point 4 "other labelling requirements" except the mention of spices, aromatic plants (if any)
6.2 Labelling of Non-Retail Containers Information for non-retail containers shall either be given on the container or in accompanying documents, except that the name of the product lot identification and name and address of the manufacturer or packer shall appear on the container. However, lot identification and the name and address of the manufacturer or packer may be replaced by an identification mark, provided that such mark is clearly identifiable with the accompanying documents.	7.2 Labelling of Non-Retail Containers Information for non-retail containers shall either be given on the container or in accompanying documents, except that the name of the product lot identification and name and address of the manufacturer or packer shall appear on the container. However, lot identification and the name and address of the manufacturer or packer may be replaced by an identification mark, provided that such mark is clearly identifiable with the accompanying documents.	
7 METHODS OF ANALYSIS AND SAMPLING See Codex Alimentarius Volume 13.	8 METHODS OF ANALYSIS AND SAMPLING See Codex Alimentarius Volume 13.	

PROPOSED DRAFT CODEX STANDARD FOR PROCESSED TOMATO CONCENTRATES

products commonly known as tomato sauce, chili sauce, and ketchup, or similar products which are highly seasoned products of varying concentrations containing characterising ingredients such as pepper, onions, vinegar, sugar, etc., in quantities that	WPTC consensus position with In bold letters the WPTC's additions In barred letters the WPTC's suppressions From the CODEX draft for revised standard CL 1997/1FPV October 97 1. SCOPE This standard applies to product as defined in Section 2.1. The standard does not include the products commonly known as tomato sauce, chili sauce, and ketchup, or similar products which are highly seasoned products of varying concentrations containing characterising ingredients such as pepper, onions, vinegar, sugar, etc., in quantities that materially alter the flavour, aroma and taste of the tomato component. These products classified in the Harmonised System Customs Tariff under the code 200290 (all the products classified in the Harmonised System Customs Tariff under the code 210320 Ketchup and other Tomato Sauces are not concerned with this standard)	use "dry matter content" instead of "natural tomato soluble solids" HS custom Item 200290: Tomato prepared or preserved otherwise than by vinegar or acetic acid (other than whole or in pieces)
2. DESCRIPTION 2.1 Deschart Definition	2. DESCRIPTION	
2.1Product Definition2.1.1Processed tomato concentrate is the product:	2.1 Product Definition2.1.1 Processed tomato concentrate is the product:	
 (a) Prepared by concentrating the liquid obtained from substantially sound, mature red tomatoes (<i>Lycopersicum esculentum</i> P. Mill), strained or otherwise prepared to exclude skins, seeds and other coarse or hard substances in the finished product; and (b) Preserved by physical means. 	 (a) Prepared by concentrating the juice obtained from substantially sound, mature red tomatoes (<i>Lycopersicum esculentum</i> P. Mill), strained or otherwise prepared to exclude the majority of skins, seeds and other coarse or hard substances in the finished product according to the screen size specified by the customer ; and (b) Preserved by physical means. 	Replace the word "liquid" by the word "juice" Due to favourable nutritional impact of skins and seeds it could be valuable to try to obtain a more high level of these items.

 2.1.2 Tomato Puree - Tomato concentrate that contains no less than 8%, but less than 24% of natural tomato soluble solids. 2.1.3 Concentrated Tomato Puree - Tomato concentrate that contains not less than 18%, but less than 24% of natural tomato solids. 2.1.4 Tomato Paste – Tomato concentrate that contains 24% of natural tomato soluble solid. 	 2.1.2 Tomato Puree - Tomato concentrate that contains no less than 8% 7%, but less than 24% 22% of dry matter content, salt and other permitted ingredient deducted. 2.1.3 Concentrated Tomato Puree - Tomato concentrate that contains not less than 18%, but less than 24% of natural tomato solids. 2.1.3 Tomato Paste - Tomato concentrate that contains 24% 22% and more of natural tomato soluble solid salt and other permitted ingredient deducted. 	According to trade practices only retain two categories of tomato concentrate. The lower limit for puree 7% is in accordance with the HS custom system The lower limit for paste 22% is in accordance with trade practices (single tomato concentrate notably in Africa market) As usual in trade practices, always precise "salt and other permitted ingredient deducted"
2.1.5 Salt and other suitable seasoning ingredients may be added	2.1.4 Salt and other suitable seasoning ingredients may be added in accordance with the following point 3.1.2	
2.1.6. The concentration shall be eight (8) or more percent natural tomato soluble solids but not dehydrated to a dry powder or flake form.	2.1.5. The concentration shall be seven (7) or more percent dry matter content but not dehydrated to a dry powder or flake form.	Concentration level should be brought down to 7% instead of 8% so as to comply with the customs tariff of the international harmonised system Code HS 20 0950 Tomato juice until 7% Code HS 20 02 10 Canned Tomato Code HS 20 02 90 Others (including tomato puree and paste)
3. ESSENTIAL COMPOSITION AND QUALITY FACTORS	3. ESSENTIAL COMPOSITION AND QUALITY FACTORS	
3.1 Composition	3.1 Composition	
3.1.1 Basic Ingredients Processed tomato concentrate as defined in Section 2.1	3.1.1 Basic IngredientsProcessed tomato concentrate as defined in Section2.1	
3.1.2 Other Permitted Ingredients(a) salt (sodium chloride);	3.1.2 Other Permitted Ingredients(a) salt (sodium chloride);	Aromatic plants are not necessary dry Onions are vegetables and not aromatic plants
		Add natural extracts of spices and aromatic plants

 (b) spices and dried aromatic plants (basil leaf, onions,-etc.,); but not sugars or other sweeteners, and . (c) Lemon juice (single strength or concentrated) used as an acidulant. 	(b) spices and dried aromatic plants (basil leaf, onions etc.,) and their natural extracts, with specific labelling; but not sugars within a limit of 2% of the dry matter content and with specific labelling, but not other sweeteners, and,	Only sugar is admitted to adjust flavour, within a limit of 2% of the dry matter content and with specific labelling.
3.2 Quality Criteria Processed Tomato concentrates shall have normal	 (c) Lemon juice (single strength or concentrated) used as an acidulant. 3.2 Quality Criteria Processed Tomato concentrates shall have normal 	Point 1 of the annex to be restored here with the following alterations
flavour, odour and colour and shall possess texture characteristic of the product. See Annex for Colour, Texture, Flavour Defects,	flavour, odour and colour and shall possess texture characteristic of the product. See Annex for Colour, Texture, Flavour Defects,	
Classification of "Defects" and Acceptance Annex 1.1-Colour	Classification of "Defects" and Acceptance 3.2.1 Colour	7% instead of 8% to be in accordance with the point
The product when diluted with water to reach approximately eight (8) percent natural tomato soluble solids should have a fairly good red colour, free from abnormal colours for the product.	The product when diluted with water to reach approximately seven (7) percent dry matter content should have a fairly good red colour, free from abnormal colours for the product.	2.1.6
Annex 1.2 Texture	3.2.2 Texture	
The concentrated product should have a homogenous, evenly divided texture indicative of good manufacturing practices.	The concentrated product should have a homogenous, evenly divided texture indicative of good manufacturing practices.	
Annex 1.3 Flavour	3.2.3 Flavour	7% instead of 8% to be in accordance with the point 2.1.6
The product when diluted with water to reach approximately eight (8) percent natural tomato soluble solids should have a good flavour characteristic of properly processed tomato concentrates without any objectionable flavour foreign to the product.	The product when diluted with water to reach approximately seven 7% dry matter content should have a good flavour characteristic of properly processed tomato concentrates without any objectionable flavour foreign to the product.	

Annex 1.4 Defects	3.2.4 Defects	
Processed tomato concentrates should be prepared from such materials and under such practices that the products is substantially free from extraneous plant materials or similar objectionable substances and should not contain excessive defects (whether or not specifically mentioned in the standard or annex).	Processed tomato concentrates should be prepared from such materials and under such practices that the products is substantially free from extraneous plant materials or similar objectionable substances and should not contain excessive be practically free of defects (whether or not specifically mentioned in the standard or annex).	
Certain common defects, when so large or numerous or of such contrasting colour or nature as to affect noticeably the appearance or usability of the product, include:	Certain common defects, when so large or numerous or of such contrasting colour or nature as to affect noticeably the appearance or usability of the product, include:	
 (a) dark specks or scale-like particles; (b) seeds or objectionable particles of seeds; (c) objectionable tomato peel because of colour and/or size; (d) harmless plant materials other than those used as seasoning; (e) mineral impurities 60 mg/kg based on diluted product of 8% solids 	 (a) dark specks or scale-like particles; (b) seeds or objectionable particles of seeds; (c)objectionable tomato peel because of colour and/or size; (d) harmless plant materials other than those used as seasoning; (e) mineral impurities 60 mg/kg based on diluted product of 8% solids 	The level of mineral impurity have not to be fixed in Codex standard. If it is decided to maintain more accurate measure of mineral impurity should be 0.1% of solids salt and other permitted ingredient deducted instead of 60 mg/kg based on diluted product of 8% solids According to trade practices the quantities of mould
(f) other similar and objectionable defects.	 (f) other similar and objectionable defects. (g) Quantities of mould 	are measured by Howard Mould Count AOAC method . But there is no consensus position among WPTC members. Should HMC positives fields limits be introduce, majority of delegations agree with a
Annex 1.5 3.2.5 Classification of "defectives"	3.2.5 Classification of "defectives"	level of positive fields 70%, but some delegations vote for 50%.
A container that fails to meet one or more of the applicable quality requirements, as set out in	A container that fails to meet one or more of the applicable quality requirements, as set out in Sections	A new method more accurate is developing by University of California. It could be possible to wait
Sections annex 1.1 through annex 1.4 , should be considered a "defective".	3.2.1 through - 3.2.4 , should be considered a "defective".	the worldwide spread before to fix any limits

Annex 1.6 Acceptance A lot will be considered as meeting the applicable quality requirements referred to in Section annex 1.5 when the number of "defectives", as defined in Section annex 1.5 does not exceed the acceptance number (c) of the appropriate sampling plan in the Codex Alimentarius Sampling Plans for Prepackaged Foods (AQL 6.5) – (CAC/RM 42-1969, Codex Alimentarius Volume 13).	3.2.6 Acceptance A lot will be considered as meeting the applicable quality requirements referred to in Section 3.2.5 . when the number of "defectives", as defined in Section - 3.2.5 . does not exceed the acceptance number (c) of the appropriate sampling plan in the Codex Alimentarius Sampling Plans for Prepackaged Foods (AQL 6.5) – (CAC/RM 42-1969, Codex Alimentarius Volume 13).	
4. FOOD ADDITIVES pH Regulating Agents Maximum level Sodium hydrogen carbonate to raise pH to a level not above 4.3 Citric acid) Malic acid) to maintain the pH at a L-Tartaric acid)level not above 4.3 Lactic acid)	4. FOOD ADDITIVES pH Regulating Agents Maximum level Sodium hydrogen carbonate to raise pH to a level not above 4.3 Citric acid) Malic acid) Malic acid) to maintain the pH at a L-Tartaric acid) Lactic acid)	No need for an agent that raises pH levels. So delete "sodium hydrogen carbonate" pH level should be 4.5 instead 4.3 . This pH limit is internationally recognised as limit of non- development of thermoresistant spores Delete all acidifying agents that lower the pH level except "citric acid" If "tartric acid" is used the level should be so hight that it affects the taste "malic acid" is too expensive and little efficient as an acidying agent In any case, delete "lactic acid" because the presence of lactic acid in finished product is due to too long storage before processing or during processing. It could be the signal of bad processing pratices.
5. CONTAMINANTS Tomato concentrates shall comply with limits for contaminants established for the products by the Codex Alimentarius Commission.	5. CONTAMINANTS Tomato concentrates shall comply with limits for contaminants established for the products by the Codex Alimentarius Commission.	

6. HYGIENE	6. HYGIENE	
6.1 It is recommended that processed tomato	6.1 It is recommended that processed tomato	
concentrates be prepared in accordance with the	concentrates be prepared in accordance with the	
Recommended International Code of Practice –	Recommended International Code of Practice –	
General Principles of Food Hygiene, (CAC/RCP 1-	General Principles of Food Hygiene, (CAC/RCP 1-	
1969, Rev. 2 1985, Codex Alimentarius Volume 1),	1969, Rev. 2 1985, Codex Alimentarius Volume 1),	
and with the Code of Hygienic Practice for Low-	and with the Code of Hygienic Practice for Low-	
Acid and Acidified Low-Acid Canned Foods,	Acid and Acidified Low-Acid Canned Foods,	
(CAC/RCP 23-1979, Rev. 1-1989, Codex	(CAC/RCP 23-1979, Rev. 1-1989, Codex	
Alimentarius Volume 1) or other codes of Hygienic	Alimentarius Volume 1) or other codes of Hygienic	
Practice as recommended by the Codes Alimentarius	Practice as recommended by the Codes Alimentarius	
Commission.	Commission.	
6.2 To the extent possible in Good Manufacturing	6.2 To the extent possible in Good Manufacturing	
Practice, the product shall be free from objectionable	Practice, the product shall be free from objectionable	
matter.	matter.	
6.3 When tested by appropriate methods of	6.3 When tested by appropriate methods of	
sampling and examination, processed tomato	sampling and examination, processed tomato	
concentrates:	concentrates:	
(a) shall be free from micro-organisms capable of	(a) shall be free from micro-organisms capable of	
development under normal conditions of storage; and	development under normal conditions of storage; and	
(b) shall not contain any substances	(b) shall not contain any substances	
originating from micro-organisms in amounts	originating from micro-organisms in amounts	
which may represent a hazard to health.	which may represent a hazard to health.	
7. LABELLING	7 LABELLING	
7.1 Tomato concentrates shall be labelled in	7.1 Tomato concentrates shall be labelled in	
accordance with the General Standard for the	accordance with the General Standard for the	
Labelling of Prepackaged Foods – CODEX STAN 1-	Labelling of Prepackaged Foods – CODEX STAN	
1985, Rev. 1-1991, Codex Alimentarius Volume 1).	1-1985, Rev. 1-1991, Codex Alimentarius Volume	
, , , , , , , , , , , , , , , , , , ,	1).	
7.2 The name of the Product		
The name of the Product shall be " Tomato	7.2 The name of the Product	The labelling shall be in accordance with the
Concentrate" and shall be accompanied by a		description of the products
declaration of the percentage of natural tomato		
soluble solids.		

	1	
	7.2.1 The name of the product shall be "Tomato	This article of the former standard 8.1.3 must be
	Puree " or " Tomato Concentrate Paste" as decided	reintroduced
	in sub-section 2.1.2 and 2.1.3 and shall be	
	accompanied by a declaration of the percentage of	
	dry matter content.	
	7.2.2 a declaration as part of the name or in close	
	proximity to the name, shall be made of any	
7.3 Labelling of Non-Retail Containers	ingredient permitted in the sub-section 3.1.2	
	which characterised this product: e.g. "with X",	
Information for non-retail containers shall be given	when appropriate	
either on the container or in accompanying	have appropriate	
documents, except that the name of the product, lot	7.3 Labelling of Non-Retail Containers	
identification and the name and address of the	7.5 Dabenning of Hon Retain Containers	
manufacturer or packer, as well as storage	Information for non-retail containers shall be given	
instructions, shall appear on the container. However,	either on the container or in accompanying	
lot identification and the name and address of the	documents, except that the name of the product, lot	
manufacturer or packer pay be replaced by an	identification and the name and address of the	
identification mark provided that such a mark is	manufacturer or packer, as well as storage	
clearly identifiable with the accompanying	instructions, shall appear on the container. However,	
documents.	lot identification and the name and address of the	
documents.	manufacturer or packer pay be replaced by an	
	identification mark provided that such a mark is	
Annex 3. Other labelling requirements	clearly identifiable with the accompanying	
Annex 3.1 Declaration of the Percentage of Natural	documents.	The storage condition could affect the quality of the
Tomato Soluble Solids (see section 7.2 in the	Storage condition could be optionally mentioned	product.
standard)	Storage condition could be optionally mentioned	product.
The percentage solids may be included on the label in		Point 3.1 of the annex to be restored here
either of the following manners:	7.4 Declaration of the Percentage of Dry matter	
(i) The minimum percentage of natural tomato	content	
soluble solids (e.g. "Minimum Solids – 20%);		
(ii) A range within 2% of the natural tomato soluble	The percentage solids may be included on the	
solids: (e.g. "Solids – 20% to 22%).	label in either of the following manners:	
	(i) The minimum percentage of dry matter	
	content (e.g. "Minimum Solids – 20%);	
	(ii) A range within 2% of the dry matter content: (e.g.	
	"Solids – 20% to 22%).	

8 METHODS OF ANALYSIS AND SAMPLING	8 METHODS OF ANALYSIS AND SAMPLING	
See Codex Alimentarius Volume 13.	See Codex Alimentarius Volume 13.	
Annex 2–WEIGHTS AND MEASURES	9 WEIGHTS AND MEASURES	Point 2 of the annex to be restored here.
Annex 2.1 -Fill of Container	9.1 Fill of Container	
Annex 2.1.1 -Minimum Fill	9.2 Minimum Fill	
Containers should be filled as full as commercially practicable having regard for the concentration of the product. When packed in rigid containers, the product should occupy not less than 90% of the water capacity of the container. The water capacity of the container is the volume of distilled water at 20°C which the sealed container will hold when completely filled.	Containers should be filled as full as commercially practicable having regard for the concentration of the product. When packed in rigid containers, the product should occupy not less than 90% of the water capacity of the container. The water capacity of the container is the volume of distilled water at 20°C which the sealed container will hold when completely filled.	
Classification of "Defectives"	3 Classification of "Defectives"	
A container that fails to meet the requirement for minimum fill (90% container capacity) of Section 2.1.1 should be considered as "defective".	A container that fails to meet the requirement for minimum fill (90% container capacity) of Section 2.1.1 should be considered as "defective".	
Annex 2.1.3 Acceptance	9.4 Acceptance	
A lot should be considered as meeting the	A lot should be considered as meeting the	
requirement of Section 2.1.1 when the number of	requirement of Section 2.1.1 when the number of	
"defectives", as defined in Section 2.1.2, does not	"defectives", as defined in Section 2.1.2, does not	
exceed the acceptance number (c) of the appropriate	exceed the acceptance number (c) of the appropriate	
sampling plan in the Codex Alimentarius Sampling	sampling plan in the Codex Alimentarius Sampling	
Plans for Prepackaged Foods (AQL 6.5) – (CAC/RM	Plans for Prepackaged Foods (AQL 6.5) - (CAC/RM	
42-199, Codex Alimentarius Volume 13).	42-199, Codex Alimentarius Volume 13).	