Sanitation Standard for Food Utensils, Containers and Packages

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DOH Food No. 619112, 08/29/1986

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Article 1

This Standard is prescribed in accordance with the provisions of Article 17 of the Act Governing Food Safety and Sanitation.

Article 2

Plastic food containers and packages shall not be recycled to repackage food then sell.

Article 3

Food utensils, containers and packages shall not have discoloration, off odor and flavor, contamination, moulds, foreign matter or stripped fiber.

Article 4

The food utensils and containers which use for children under the age of three, shall not add di-(2-ethylhexyl) phthalate (DEHP), Di-n-octyl phthalate (DNOP), dibutyl phthalate (DBP) and Benzyl butyl phthalate (BBP).

Article 5

Plastic infant feeding bottles shall not contain of Bisphenol A.

Article 6

Food utensils, containers and packages shall meet the requirements according to the following standard tests:

- 1. General requirements as Appendix table 1.
- 2. The plastic materials listed in the Appendix table 2, shall also comply with the Appendix table 1.
- 3. The containers and packages for dairy products shall comply with the Appendix table 3.

Article 7

This Standard shall be implemented from the date of promulgation.

Appendix table 1. General requirements

Item and	Material test item and			tion test	
raw materials	passing standard	Solvent (1)	Migration condition	Item and passing standard	Note
Utensils	The materials and				
	construction shall not				
	have the risk of				
	coming-off of copper,				
	lead or their alloys.				
Utensils,	The materials shall				
containers and	have their				
packages	characteristic gloss				
made of	and be not rusting.				
copper or	Those parts which are				
copper alloy	in direct contact with				
	food contents shall be				
	completely coated				
	with tin or silver, or				
	subjected to				
	appropriate treatment,				
	which is not causing				
	health hazards.				
Tin for	Lead: Not more than				
coating	5%				
Solder	Lead: Not more than				
materials for	20% Solder materials				
_	for use on the outside				
and patching-	of empty cans shall				
up utensils,	meet the following				
	requirements:				
packages	Double-seam cans:				
	Lead, not more than 98%;				
	Non-double-seam				
	cans: Lead, not				
	more than 60%.				
Utensils,	Coloring agents shall				
containers and	meet the regulations				
packages	set in the Scope and				
	Application Standard				
	of Food Additives,				
	except those coloring				
	agents which have no				
	risk of migration into				
	the foods.				
Glass,		4% Acetic	Room	Lead: Not more than 5	
porcelain, and		acid	temperature	ppm.	
enameled			(dark place)	Cadmium: Not more	
utensils or			for 24 hours	than 0.5 ppm.	
containers;					
(a)More than					

2.5					1
2.5 cm in					
depth but not					
more than 1.1					
L of its					
capacity.					
Glass,		4% Acetic	Room	Lead: Not more than	
porcelain, and		acid	temperature	2.5 ppm.	
enameled			(dark place)	Cadmium: Not more	
utensils or			for 24 hours	than 0.25 ppm.	
containers;					
(b)More than					
2.5 cm in					
depth and					
more than 1.1					
L of its					
capacity.					
Glass,		4% Acetic	Room	Lead: Not more than	
porcelain, and		acid	temperature	$17\mu g/cm^2$.	
enameled		acia		Cadmium: Not more	
utensils or			for 24 hours	than $1.7\mu g/cm^2$.	
containers;			101 2 1 110 415	παπ 1.7 μg/ σπ .	
(c)Not more than 2.5 cm in					
depth or					
unable to be					
filled up with					
liquid.	T 1 NI / /1	XX 7.4	(00C C 20	A ' NT 4 41	
Metal alloy-	Lead: Not more than	Water	60°C for 30 min (2)	Arsenic: Not more than	
the direct	0.1%.		min (=)	0.2 ppm.	
contact	Antimony: Not more			Lead: Not more than	
surface	than 5%.			0.4 ppm.	
material with				Cadmium: Not more	
food is metal		0.50/	(000 6 20	than 0.1 ppm.	
alloy.				Arsenic: Not more than	
			min	0.2 ppm.	
		acid		Lead: Not more than	
		solution		0.4 ppm.	
				Cadmium: Not more	
				than 0.1 ppm.	
		_	25°C for 1	Residues after	Applied to the
			hour	evaporation: Not more	
				than 90 ppm.	foods with
					natural fats
					and oils as the
					major raw
					material and
					the inner side
					coated with a
					coating
					material
					containing
					more than

					3%of zinc oxide.
Metal alloy- the direct contact surface material with food is synthetic resins.		Water	60°C for 30 min (2)	Phenol: Not more than 5 ppm. Formaldehyde: Negative. Residues after evaporation: Not more than 30 ppm. When the residue exceeds 30 ppm, the chloroform- soluble extracts shall not be more than 30 ppm.	
		acid 20%	60°C for 30 min ⁽²⁾	Residues after evaporation: Not more than 30 ppm. Residues after	
		Ethanol n-Pentane	min 25°C for 1	evaporation: Not more than 30 ppm. Epichlorohydrin	
		Ethanol (99.5%)	Below 5°C for 24 hours	monomer: Not more than 0.5 ppm. Vinyl chloride monomer: Not more than 0.05 ppm.	
Electrode for utensils (with devices to directly transmit electric current into foods)	The electrode shall be made only of iron, aluminum, platinum and titanium. (Stainless steel can also be used if the electric current transmitted to foods is minimal.)			That olde ppin	
Plastics	Lead: Not more than 100 ppm. Cadmium: Not more than 100 ppm. Plasticizer (3): DEHP, DBP, BBP, DIDP, DINP, DMP,	Water 4% Acetic acid	min ⁽²⁾	Consumption of potassium permanganate: Not more than 10 ppm. Heavy metals: Not more than 1 ppm (as Pb).	1.Besides the above general requirement s, plastic utensils containers

	DNOD 1 DED	II4	25°C C 1	D1 4: -: (3).	1
	DNOP and DEP,	n-Heptane		Plasticizer (3):	and
	individual content		hr	DEHP: Not more than	packages
	shall not exceed			1.5 ppm.	shall also
	0.1%. (by mass)			DBP: Not more than 0.3	meet the
				ppm.	requirement
				BBP: Not more than 30	s for plastic
				ppm.	materials
				DIDP: Not more than 9	listed in the
				ppm. DINP: Not more than 9	Appendix table 2.
					2. The
				ppm. DEHA: Not more than	standard of
					phthalates in
				18 ppm.	the material
					test, not
					applicable
					for PVC
					materials.
Paper (4)-	Fluorescent	Water	60°C for 30	Arsenic: Not more than	materials.
the direct	brightening agent:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	$\min^{(2)}$	$0.1 \text{ ppm (as As}_2O_3);$	
contact	Negative			Formaldehyde:	
surface	regative			Negative;	
material with				Residues after	
food is wax or				evaporation: Not more	
pulp product				than 30 ppm. When	
				the residue exceeds 30	
				ppm, the chloroform-	
				soluble extracts shall	
				not be more than 40	
				ppm.	
		4% Acetic	60°C for 30	Arsenic: Not more than	
		acid	min (2)	0.1 ppm (as As_2O_3);	
				Heavy metals: Not	
				more than 1 ppm (as	
				Pb);	
				Residues after	
				evaporation: Not more	
				than 30 ppm. When	
				the residue exceeds 30	
				ppm, the chloroform-	
				soluble extracts shall	
				not be more than 40	
		TT	2500 0 1	ppm.	
		n-Heptane		Residues after	
			hour	evaporation: Not more	
				than 30 ppm. When	
				the residue exceeds 30	
				ppm, the chloroform-	
				soluble extracts shall	
				not be more than 40	
				ppm.	

	 20%	60°C for 30	Residues after	
	Ethanol	min.	evaporation: Not more	
			than 30 ppm. When the	
			residue exceeds 30	
			ppm, the chloroform-	
			soluble extracts shall	
			not be more than 40	
			ppm.	
Paper (4)-		1	IF F	
the direct				
contact				
surface				
material with				
food is plant				
fiber				
Paper (4)-	Shall meet			
the direct	1. When us	se the raw ma	iterial which listed in the	
contact	Appendi			
surface	requiren			
material with	2.The plas			
food is	_		test standard shall apply	
plastics		_	direct contact surface	
		<u> </u>	synthetic resins".	

- (1) The simulation objects of each solvent are described as follows (glass, porcelain, and enameled utensils or containers project not applicable):
 - a. Water: simulate the contact with foods containing PH>5.
 - b. 4% Acetic acid, 0.5% Citric acid solution: simulate the contact with foods containing PH \leq 5.
 - c. n-Heptane: simulate the contact with foods containing surface oils or oils and fatty foods.
 - d. 20% Ethanol: simulate contact foods containing alcohol.
- (2) The products which are heated to higher than 100° C during food processing or cooking, the migration condition shall set 95°C for 30 min.

(3) Abbreviation table of plasticizers:

Abbreviations	English name
DEHP	Di(2-ethylhexyl)phthalate
DBP	Dibutyl phthalate
BBP	Benzyl butyl phthalate
DIDP	Di-isodecyl phthalate
DINP	Di-isononyl phthalate
DMP	Dimethyl phthalate
DNOP	Di-n-octyl phthalate
DEP	Diethyl phthalate
DEHA	Di-2-ethylhexyl Adipate

- (4) Remark for paper:
 - a. This standard applies to the containers such as meal boxes, plates, dishes, bowls and cups, which is mainly made of paper pulp or the fiber of agricultural materials such as wood, sugar cane, reed, hemp, straw, haulm, hull of paddy, bamboo, etc. the weight for physically detachable plastics, or other metal foil shall be less than 10% of the overall weight.
 - b. Paper containers for dairy products shall meet the standards of 'Requirements for the containers and packages for dairy products' described below.
 - c. Additives: only allowed for those substances generally recognized as safe.
 - d. Requirement of papers: the raw materials shall be well packaged and stored under good

- condition. Waste paper shall not be used. The shelf life for normal run and side trim paper shall be maintained within 24 months and 6 months, respectively.
- e. Recycled materials shall not be used. Paper used shall only be made form virgin materials. The materials from bamboo and wood containing harmful substances shall not be used.
- f. If the contact surface of paper product is not completely covered by plastic (including synthetic resin), it should be classified according to its material as wax, pulp product or plant fiber whose internal material is in direct contact with the content.

Appendix table 2. Requirements for plastic materials

Dave	Material test item and	_	Migra	ation test	
Raw materials	passing standard	Solvent (1)	Migration condition	Item and passing standard	Note
Polyvinyl chloride [PVC]	Lead: Not more than 100 ppm. Cadmium: Not more than 100 ppm. Dibutyltin: Not more	Water	60°C for 30 min (2)	Consumption of potassium permanganate: Not more than 10 ppm. Residues after evaporation: Not more than 30 ppm.	
	than 50 ppm (as dibutyltin dichloride) Cresyl phosphate: Not more than 1000	4 % Acetic acid	60°C for 30 min (2)	Heavy metals: Not more than 1 ppm (as Pb); Residues after evaporation: Not more than 30 ppm.	
	ppm. Vinyl chloride monomer: Not more than 1 ppm. Plasticizer (3): Sum of the DEHP,	n-Heptane	25°C for 1 hour.	Residues after evaporation: Not more than 150 ppm.	
	DBP, BBP, DIDP, DINP, DMP, DNOP and DEP, shall not exceed 0.1%. (by mass)	20 % Ethanol	60°C for 30 min.	Residues after evaporation: Not more than 30 ppm.	
Polyvinylid ene dichloride [PVDC]	Lead: Not more than 100 ppm. Cadmium: Not more than 100 ppm. Barium: Not more	Water	60°C for 30 min (2)	Consumption of potassium permanganate: Not more than 10 ppm. Residues after evaporation: Not more than 30 ppm.	
	than 100 ppm. Vinylidene-dichloride monomer: Not more than 6 ppm.		60°C for 30 min (2)	Heavy metals: Not more than 1 ppm (as Pb); Residues after evaporation: Not more than 30 ppm.	
		n-Heptane 20 % Ethanol	25°C for 1 hour. 60°C for 30 min.	Residues after evaporation: Not more than 30 ppm. Residues after evaporation: Not more than 30 ppm.	
Polyethylen e [PE] and polypropyle ne [PP]	Lead: Not more than 100 ppm. Cadmium: Not more than 100 ppm.	Water	60°C for 30 min (2)	Consumption of potassium permanganate: Not more than 10 ppm. Residues after evaporation: Not more than 30 ppm.	
		4%Acetic acid	60°C for 30 min (2)	Heavy metals: Not more than 1 ppm (as Pb); Residues after evaporation: Not more than 30 ppm.	

	n-Heptane	25°C for 1 hour	Residues after evaporation: Not more than 30 ppm, 150 ppm for those products which are heated to not higher than 100°C during food processing and cooking. Residues after evaporation:	
	Ethanol	min	Not more than 30 ppm.	
Polystyrene [PS] Lead: Not more 100 ppm. Cadmium: Not in than 100 ppm. Volatile compout (the sum of street)	more	60°C for 30 min (2)	Consumption of potassium permanganate: Not more than 10 ppm. Residues after evaporation: Not more than 30 ppm.	Tableware made of polystyrene are not suitable for filling foods
toluene, ethyl benzene, n-pro benzene, and isopropyl benz Not more than	zene):	60°C for 30 min (2)	Heavy metals: Not more than 1 ppm (as Pb); Residues after evaporation: Not more than 30 ppm.	at a temperature higher than 100°C.
ppm. Foaming polystyrene sh not more than ppm, among w styrene and eth	all be 2000 which	25°C for 1 hour.	Residues after evaporation: Not more than 240 ppm.	
benzene shall a be more than 1 ppm respective	not 20 % Ethanol	60°C for 30 min.	Residues after evaporation: Not more than 30 ppm.	
Poly(ethyle ne 100 ppm. terephthalat e) Lead: Not more 100 ppm. Cadmium: Not than 100 ppm.	nore	60°C for 30 min (2)	Consumption of potassium permanganate: Not more than 10 ppm. Residues after evaporation: Not more than 30 ppm.	
	4% Acetic acid	60°C for 30 min (2)	Heavy metals: Not more than 1 ppm (as Pb); Antimony: Not more than 0.05 ppm. Germanium: Not more than 0.1 ppm. Residues after evaporation: Not more than 30 ppm.	
	n-Heptane	25°C for 1 hour	Residues after evaporation: Not more than 30 ppm.	
	20 % Ethanol	60°C for 30 min	Residues after evaporation: Not more than 30 ppm.	
Plastics Lead: Not more with 100 ppm.		60°C for 30 min (2)	Phenol: Negative Formaldehyde: Negative.	

formaldehy	Cadmium: Not more	4% Acetic	60°C for 30	Residues after evaporation:
de as raw	than 100 ppm.	acid	min (2)	Not more than 30 ppm.
material for				
synthesis				
Plastics with	Lead: Not more than	Water	60°C for 30	Phenol: Negative.
formaldehy	100 ppm.		min (2)	Formaldehyde: Negative.
de-	Cadmium: Not more	4% Acetic	60°C for 30	Residues after evaporation:
melamine as	11	acid	min (2)	Not more than 30 ppm.
raw material		4% Acetic	95°C for 30	Melamine: Not more than
for synthesis		acid	min	2.5 ppm.
Poly	Lead: Not more than	Water	60°C for 30	Consumption of potassium
(methyl	100 ppm.		min (2)	permanganate: Not more
methacrylat	Cadmium: Not more			than 10 ppm.
e)	than 100 ppm.			Residues after evaporation:
[PMMA]	11			Not more than 30 ppm.
		4% Acetic	60°C for 30	Heavy metals: Not more
		acid	min (2)	than 1 ppm (as Pb);
				Residues after evaporation:
				Not more than 30 ppm.
		n-Heptane	25°C for 1	Residues after evaporation:
		1	hour	Not more than 30 ppm.
		20 %	60°C for 30	Residues after evaporation:
		Ethanol	min	Not more than 30 ppm.
				Methyl-methacrylate
				monomer: Not more than
				15 ppm.
Polyamide	Lead: Not more than	Water	60°C for 30	Consumption of potassium
[PA, Nylon]	100 ppm.		min (2)	permanganate: Not more
	Cadmium: Not more			than 10 ppm.
	than 100 ppm.			Residues after evaporation:
				Not more than 30 ppm.
		4% Acetic		Heavy metals: Not more
		acid	min (2)	than 1 ppm (as Pb);
				Residues after evaporation:
				Not more than 30 ppm.
		n-Heptane	25°C for 1	Residues after evaporation:
			hour	Not more than 30 ppm.
		20 %	60°C for 30	Residues after evaporation:
		Ethanol	min	Not more than 30 ppm.
				Caprolactam monomer: Not
			6006.0	more than 15 ppm.
Polymethyl	Lead: Not more than	Water	60°C for 30	Consumption of potassium
pentene	100 ppm.		min (2)	permanganate: Not more
[PMP]	Cadmium: Not more			than 10 ppm.
	than 100 ppm.			Residues after evaporation:
		40/	10000 2 22	Not more than 30 ppm.
		4% Acetic	60°C for 30	Heavy metals: Not more
		acid	min (2)	than 1 ppm (as Pb);
				Residues after evaporation:
				Not more than 30 ppm.

		n-Heptane	25°C for 1	Residues after evaporation:
		1	hour	Not more than 120 ppm.
		20 %	60°C for 30	Residues after evaporation:
		Ethanol	min.	Not more than 30 ppm.
Rubber-	Lead: Not more than	Water	60°C for 30	Phenol: Nor more than 5
except milk	100 ppm.		min (2)	ppm.
	Cadmium: Not more			Formaldehyde: Negative.
babies	than 100 ppm.			Residues after evaporation:
I I	2-Mercaptoimidazoli			Not more than 60 ppm.
	ne: Negative.	4% Acetic	60°C for 30	zinc: Not more than 15 ppm.
	1101 1 (08.01)	acid	min (2)	Heavy metals: Not more
		acia		than 1 ppm (as Pb)
		20 %	60°C for 30	Residues after evaporation:
		Ethanol	min	Not more than 60 ppm.
Rubber-	Lead: Not more than	Water	40°C for 24	Phenol: Nor more than 5
I I		water		
milk feeders	100 ppm.		hours	ppm.
for babies	Cadmium: Not more			Formaldehyde: Negative.
	than 100 ppm.			Residues after evaporation:
				Not more than 40 ppm.
			100000	zinc: Not more than 1 ppm.
		4% Acetic	40°C for 24	Heavy metals: Not more
		acid	hours	than 1 ppm (as Pb)
Polycarbona	Lead: Not more than	Water	95°C for 30	Consumption of potassium
te	100 ppm.		min	permanganate: Not more
[PC]	Cadmium: Not more			than 10 ppm.
	than 100 ppm.			Residues after evaporation:
				Not more than 30 ppm.
				Bisphenol A (except feeding
				bottle): Not more than 0.6
				ppm.
		4% Acetic	60°C for 30	Heavy metals: Not more
		acid	1 .	than 1 ppm (as Pb);
		acia	min	Residues after evaporation:
				Not more than 30 ppm.
				Bisphenol A (except feeding
				bottle): Not more than 0.6
Dolymbany 1	Lead: Not more than	Water	05°C for 20	ppm. Consumption of notessium
"1 "		Water	95°C for 30	Consumption of potassium
sulfone	100 ppm.		min	permanganate: Not more
	Cadmium: Not more			than 10 ppm.
feeding	than 100 ppm.			Residues after evaporation:
bottle		10()	500	Not more than 30 ppm.
		4% Acetic	60°C for 30	Heavy metals: Not more
		acid	min	than 1 ppm (as Pb);
				Residues after evaporation:
				Not more than 30 ppm.
Polyethersul	Lead: Not more than	Water	95°C for 30	Consumption of potassium
i e		ĺ	l:	narmanganata, Nat mara
fone [PES]-	100 ppm.		min	permanganate: Not more
	100 ppm. Cadmium: Not more		min	than 10 ppm.
			min	_

		4% Acetic acid	60°C for 30 min	Heavy metals: Not more than 1 ppm (as Pb); Residues after evaporation: Not more than 30 ppm.	
Polylactic acid [PLA]	Lead: Not more than 100 ppm. Cadmium: Not more than 100 ppm.	Water 4% Acetic acid 20 % Ethanol	50°C for 4 hr (60°C for 30 min for those products which are heated to higher than 50°C during food processing or cooking, or use the composite material of PLA.)	Consumption of potassium permanganate: Not more than 10 ppm. Residues after evaporation: Not more than 30 ppm. Total of lactic acid: Not more than 30 ppm. Heavy metals: Not more than 1 ppm (as Pb); Residues after evaporation: Not more than 30 ppm. Residues after evaporation: Not more than 30 ppm.	Food utensils, containers and packages made of polylactic acid are not used for high temperature sterilization during food processing or cooking and are not
		n-Heptane	25°C for 1 hour	Residues after evaporation: Not more than 30 ppm.	suitable for filling foods at a temperature higher than $100^{\circ}C$.

- (1) The simulation objects of each solvent are described as follow:
 - a. Water: simulate the contact with foods containing PH>5.
 - b. 4% Acetic acid: simulate the contact with foods containing PH \leq 5.
 - c. n-Heptane: simulate the contact with foods containing surface oils or oils and fatty foods.
 - d. 20% Ethanol: simulate contact foods containing alcohol.
- (2) The products which are heated to higher than 100°C during food processing or cooking, the migration condition shall set 95°C for 30 min.

(3) Abbreviation table of plasticizers:

Abbreviations	English name
DEHP	Di(2-ethylhexyl) phthalate
DBP	Dibutyl phthalate
BBP	Benzyl butyl phthalate
DIDP	Di-isodecyl phthalate
DINP	Di-isononyl phthalate
DMP	Dimethyl phthalate
DNOP	Di-n-octyl phthalate
DEP	Diethyl phthalate

Appendix table 3. Materials requirements for dairy products

	Material test item				
Item and raw materials	and passing standard	Solvent	Migration condition	ion teat Item and passing standard	- Passing standard for special tests
Containers and packages made of polyethylene or polyethylene-processed paper for dairy products (1, exclude cream and butter) (2)	n-Hexane extract: Not more than 2.6%. Xylene soluble: Not more than 11.3%. Arsenic: Not more than 2 ppm (as As ₂ O ₃) Heavy metals: Not more than 20 ppm (as Pb)	4% Acetic acid	60°C for 30 min	Consumption of potassium permanganate: Not more than 5 ppm. Residues after evaporation: Not more than 15 ppm. Heavy metals: Not more than 1 ppm (as Pb)	Breaking force test: Not lower than 2.0 kgf/cm² for those containing not more than 300 mL food contents. (Not lower than 4.0 kgf/cm² for those which can be preserved under room temperature.) Not lower than 5.0 kgf/cm² for those containing more than 300 mL (including 300 mL) food contents. (Not lower than 8.0 kgf/cm² for those which can be preserved under room temperature.) Sealing strength test: Shall not have damage or gas leakage. Pin-hole test: No methyl blue spot shall be found on the filter paper. Materials for the containers or packages of products which can be preserved under room temperature, shall be impermeable to both light and gas.
Containers and packages made of polyethylene or polyethylene-processed paper for cream and	n-Hexane extract: Not more than 2.6%. Xylene soluble: Not more than 11.3%. Arsenic: Not	Water 4% Acetic	60°C for 30 min 60°C for 30 min	Consumption of potassium permanganate: Not more than 5 ppm. Heavy metals: Not more than 1 ppm	Breaking force test: The same as those for dairy products. Sealing strength test: The same as those for dairy products. Pin-hole test: The same as those for dairy products.
butter (2)	more than 2 ppm (as As ₂ O ₃) Heavy metals: Not more than 20 ppm (as Pb)	n- Heptane	25°C for 1	Residues after evaporation: Not more than 15	most for dully products.
Glass bottles for dairy products (1)	Shall meet the requestegory of Appen be transparent.				

3.5.1	TT1 2 :	***	600~ 6		
Metal cans for	The surface in	Water	60°C for	The surface in	
dairy products	direct contact		30 min	direct contact with	
(1)	with food is			food is plastic:	
	plastic:			Consumption of	
	Arsenic: Not			potassium	
	more than 2			permanganate:	
	ppm (as			Not more than 5	
	As_2O_3			ppm.	
	Cadmium: Not			Phenol: Negative.	
	more than 100			Formaldehyde:	
	ppm.			Negative.	
	Lead: Not more	4%	60°C for	Arsenic: Not more	
	than 100 ppm.	Acetic	30 min	than 0.1 ppm (as	
	If the surface in	acid	30 11111	`	
	direct contact	aciu		As_2O_3	
	with food is			Heavy metals: Not	
				more than 1 ppm	
	polyvinyl			(as Pb)	
	chloride, it shall				
	additionally meet			The surface in	
	the following			direct contact with	
	requirements:			food is plastic:	
	Dibutyltin: Not			Residues after	
	more than 50			evaporation: not	
	ppm (as			more than 15	
	dibutyltin			ppm.	
	dichloride)				
	Cresyl				
	phosphate:				
	Not more than				
	1000 ppm.				
	Vinyl chloride				
	monomer: Not				
	more than 1				
	ppm.				
Containers and		ne require	ements as th	ose for containers	Sealing strength test: The
packages made	and packages mad				same as those for dairy
of		1 7	J	J 1	products.
polyethylene-					Pin-hole test: The same as
processed paper					those for dairy products.
for fermented					Breaking force test: Not lower
milk, lactic acid					than 5.0 kgf/cm ² .
bacteria					man 5.0 kg//cm .
beverages, and					
milk-containing					
beverages					
(sealed with					
plastic-					
processed					
aluminum					
foil).					

Containers and packages made of polystyrene for fermented milk, lactic acid bacteria beverages, and milk-containing beverages (sealed with plastic-processed aluminum foil). Composite containers and packages for fermented milk, lactic acid bacteria beverages, and milk-containing beverages (3)	benzene, and n- propyl benzene): Not more than 1500 ppm. Arsenic: Not more than 2 ppm (As ₂ O ₃) Heavy metals: Not more than 20 ppm (as Pb) Metals parts shall 1 for "Metal alloy"	meet the requirem	tic resin, sy etic-resin-prents set for	ocessed aluminum	Sealing strength test: The same as those for dairy products. Pin-hole test: The same as those for dairy products. Thrusting strength test: Not lower than 1.0 kgf/cm².
Plastic processed aluminum foil	The surface in direct contact with food is plastic: Arsenic: Not more than 2 ppm (as As ₂ O ₃ Cadmium: Not more than 100 ppm. Lead: Not more		60°C for 30 min	Consumption of potassium permanganate: Not more than 5 ppm. Phenol: Negatives. Formaldehyde: Negatives.	Breaking force test: Not lower than 2.0 kgf/cm ² .

Metals cans for milk powers (4)	cans for dairy pro	Acetic acid Shall meet oducts. ne (PE) of resins are	r poly (ethy permitted f	_	
Containers and	Same as the	Water	60°C for	Consumption of	Breaking force test: Not lower
packages made of multi-layer synthetic resin for milk powder	1		30 min	potassium permanganate: Not more than 5 ppm.	than 2.0 kgf/cm ² for those containing less than 300 mL food contents, and not lower than 5.0 kgf/cm ² for those
(4) - For those	dairy products.	4% Acetic	60°C for 30 min	Heavy metals: Not more than 1 ppm	containing more than 300 mL food contents. (In the
using polyethylene as		acid	30 11111	(as Pb)	latter case if there is outer
the material of the inner side which is in direct contact with food contents.	Codminus Nat	n- Heptane	hour.	Residues after evaporation: Not more than 15 ppm.	package and the inner and the outer packages together have a breaking force of not lower than 10.0 kgf/cm², the breaking force of the inner package shall not be lower than 2.0 kgf/cm².) Sealing strength test: Shall not have damage or leakage.
Containers and packages made of multi-layer synthetic resin	Cadmium: Not more than 100 ppm. Lead: not more	Water	60°C for 30 min	Consumption of potassium permanganate: Not more than 5	Breaking force test: The same as above. Sealing strength test: The same as above.
for milk	than 100 ppm.			ppm.	

powders (4)- For	4%	60°C for	Heavy metals: Not	
those using	Acetic	30 min	more than 1 ppm	
poly(ethylene-	acid		(as Pb)	
terephthalate)			Antimony: Not	
as the material			more than 0.025	
of the inner side			ppm.	
which is in			Germanium: Not	
direct contact			more than 0.05	
with food			ppm.	
contents.	n-	25% for 1	Residues after	
	Heptane	hour.	evaporation: Not	
			more than 15	
			ppm.	

- (1) The dairy products include fresh milk, partially skimmed milk, skimmed milk, flavored milk, fermented milk, lactic acid bacteria beverages, milk-containing beverages, cream and butter.
- (2) Containers and packages made of polyethylene-processed paper are referred only to those in which the portion directly in contact with food contents is polyethylene.
- (3) Composite containers and packages are those made of two or more materials of synthetic resin, synthetic-resin-processed paper, synthetic-resin-processed aluminum foil or metals.
- (4) The milk powders include whole fat milk powder, partially skimmed milk powder, skimmed milk powder, and formulated milk powder.
- (5) Sweetened or unsweetened condensed whole fat milk and sweetened or unsweetened condensed skim milk for sale shall be packed in tightly sealable metal cans. Whole fat milk powder, skim milk powder, sweetened milk powder and formulated milk powder shall use packaging materials impervious to light, air and moisture or be filled in tightly sealable metal cans.