Eco Mark Product Category No.140

"Refill Containers and Resource Saving Containers Version 1.11" Certification Criteria

—Applicable Scope—

A. Refill Containers
B. Resource Saving Containers (Edible Oil Containers)
C. Container for Sterile-Packed Cooked Rice
D. Lightweight PET Bottles (Container)
E. PET Bottles (Containers) Using Reprocessed Materials in Kitchen Utensils and Containers/Packages
F. PET bottles (containers) using plant-based plastics
G. Plastic containers and packaging using recycled plastic
H. Plastic containers and packaging using plant-based plastics

Established: July 2, 2007
Last revised: February 1, 2017
Expiration: June 30, 2022

Japan Environment Association
Eco Mark Office

NOTE: This document is a translation of the criteria written in Japanese. In the event of dispute, the original document should be taken as authoritative.

Eco Mark Product Category No.140

"Refill Containers and Resource Saving Containers Version 1.11" Certification Criteria

A. Refill Containers

Japan Environment Association
Eco Mark Office

1. Purpose of establishing criteria

Omitted

2. Applicable Scope

Containers filled with refill content designed to refill the content of the product and repeatedly use the product container.

The products whose content deemed significantly inappropriate from the viewpoint of environmental conservation at the Eco Mark Committee for Product Certification, however, shall not be deemed within the applicable scope.

3. Terminology

Omitted

4. Certification Criteria and Certification Procedures

With respect to Certification Procedures to criteria items, the Attached Certificates shall be submitted.

4-1. Environmental Common Criteria and Certification Procedures

(1) In manufacturing the applying product, related environmental laws and regulations and pollution control agreement (hereinafter referred to as the "Environmental Laws, etc.") must be followed with respect to air pollution, water contamination, noise, offensive odor, and emission of hazardous materials in the area where the plant performing the final manufacturing process is located.

In addition, the state of compliance with the Environmental Laws, etc. for the last five years from the date of application (whether there is any violation) must be reported. If there is any violation, it is necessary that proper remedies and preventive measures have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

[Certification Procedure] Certifier: Finished product manufacturing/assembly plant

With respect to the compliance with the Environmental Laws, etc. in the area where the plant performing the final manufacturing process is located, a certificate issued by the representative of the manufacturer of the applying product or the manager of the relevant plant (entry or attachment of the list of names of the Environmental Laws, etc.) must be submitted.

In addition, it is necessary to report whether there is any violation during the last five years, including a violation subject to administrative punishment or administrative guidance, and if there is, the following documents in a and b must be submitted:

a. With respect to the fact of violation, guidance documents from administrative agencies (including order of correction and warning) and copies of written answers (including those reporting causes and results of correction) to such documents (making a series of progress clear);

b. Following materials (copies of recording documents, and so on) concerning the management system for compliance with the Environmental Laws, etc. in 1)-5):

1) List of the Environmental Laws, etc. related to the area where the plant is located;

2) Implementation system (organizational chart with entry of roles, etc.);

3) Document stipulating retention of recording documents;

4) Recurrence prevention measures (future preventive measures);

5) State of implementation based on recurrence prevention measures (result of checking of the state of compliance, including the result of onsite inspection).

(2) Substances regulated by "Self-imposed Controls on Printing Ink (Negative List regulations) by the Japan Printing Ink Makers Association shall not be added with printing ink used for the product (labels, etc.) as a prescribed constituent.

[Certification Procedures] Certifier: Applicant

The Applicant shall state in the Attached Certificate that the product complies with Negative List regulations.

(3) The Applicant shall state on the product, package, manual, brochure, etc. that the refillable product is available for purchase.

[Certification Procedures]

The Applicant shall report the content of statement as well as submit the product, or photographs of package, manual, brochure, etc., or specifications or the explanatory document that indicate the corresponding statement.

(4) Plastic materials to be used in the container shall not be added with plastics that contain halogen in polymeric backbone as a prescribed constituent.

[Certification Procedures]
The Applicant shall state in the Attached Certificates whether any halogen element is added or not in polymeric skelton.

4-2. Criteria for Material and Certification Procedures

With respect to containers that use either plastic materials or paper materials not less than 70% in weight to the whole product as a major material, the Applicant shall choose either corresponding A or B below to apply. With respect to other products, C shall apply

A. Product using a plastic as a key material

(5) Weight of container shall conform to the criteria in Table 1.

Table 1 Weight of Container against Content

Content	Interior Content of Container	Weight of Container per 1L (or 1000 g) of Content
Liquid Body, Particulate Body or Powder Body	Interior content of refill container ≤ Interior content of product	Less than 25 g
	Interior content of refill container > Interior content of product	Less than 40 g
Others	—	Less than 50 g

[Certification Procedures]
The weight of container: A (g), the volume of content: B (L) and the weight of container per 1L of content (A/B) shall be stated in the Attached Certificates. Additionally, if the content is a particulate/powder body, the volume of content shall be expressed in dimensions [volume] before product shipment. In addition, if the content is “Others”, it would also be acceptable if the volume (B) could replace the weight (g), and the vessel weight (A/B x 1000) per 1000g of the content could satisfy a reference value.

(6) Packaging material shall not use the specific chlorofluorocarbons (five CFCs), other CFCs, carbon tetrachloride, trichloroethane, and CFC substitutes (HCFCs)

during container manufacturing.

[Certification Procedures]
The conformity with this item shall be stated in the Attached Certificates. In addition, certificates issued by the manufacturer who manufactures a plastic material to be used in the product, or the responsible person or the manager of the plant assembling the product shall be submitted.

(7) Products for which plastic materials are used, the plasticizers, colorants, stabilizers, lubricants and other plastics additives shall conform to the positive list of the Japan Hygienic Olefin and Styrene Plastics Association and etc., which is accepted by Japan Environment Association. In case of using the plastic additives which are not listed in the positive list for the products which are not intended as containers for food, cosmetics, medicine-related products and the like, the plastic additives shall meet the requirements of harmful substances described in ISO 8124-3 (Corresponding standard: 88/378/EEC EN71 Part 3).

[Certification Procedures] Certifier: Manufacturer in charge of manufacturing or the third party testing body
The Applicant shall submit certificates that plasticizer, color materials, stabilizers, lubricants and other plastic additives comply with the Positive List regulations by the Japan Hygienic Olefin And Styrene Plastics Association, which is accepted by Japan Environment Association. With respect to plastic additives not included in the Positive List, the results of tests to conform to the requirements for hazardous materials stipulated in ISO 8124-3 (correspondent standard: 88/378/EEC EN71-3) shall be submitted.

(8) If recycled plastic is used in food apparatus, the measures to ensure the safety based on “Guidelines on the use of recycled plastic in food apparatus and containers and packaging” of Ministry of Health, Labour and Welfare (Shokuan, 0427 No.2, April 27 2012), shall be taken.

[Certification Procedure] Certifier: Applicant
The written document shall be submitted which shows the ensuring the safety based on “Guidelines on the use of recycled plastic in food apparatus and containers and packaging” of Ministry of Health, Labour and Welfare (Shokuan, 0427 No.2, April 27 2012).

(9) Adhesives to be used for the containers shall comply with voluntary regulations by the Japan Adhesive Industry Association (Negative List concerning laminate adhesives).

[Certification Procedures]
The Applicant shall state in the Attached Certificate that the product complies with Negative List regulations.

(10) Cadmium, lead, hexavalent chromium, mercury, or their compounds as formulation ingredients for containers shall not be added.

[Certification Procedures]
The Applicant shall submit certificates that in producing process of the product, the corresponding chemical substances are not added as a prescribed constituent.

(11) With respect to products which are intended as containers for food, cosmetics, medicine-related products and the like shall not be added the substances classified as Groups 1, 2A and 2B by IARC (International Agency for Research on Cancer) as formulation ingredients. However, it excludes the chemical substances to use for the purpose of making polymers by polymerization reaction (ex; polyvinyl monomer, styrene).

[Certification Procedures]
The Applicant shall state in the Attached Certificates whether the product to be applied is applicable or not. In the case of being applicable, certificates that in producing process of the product, chemical substances stipulated under the items are not added as a prescribed constituent.

(12) The product whose content is food, cosmetic containers, or medical related products shall meet the requirement of harmful substances described in the Standards for Foods, Food Additives, etc. (Ministry of Health and Welfare Notice No. 370, 1959).

[Certification Procedure]
The Applicant shall submit test results to certifying that the products do not contain the corresponding harmful substances.

B. Product using paper as a key material

(13) Weight of container shall conform to the criteria in Table 2.

Table 2 Weight of Container against Content

Content	Interior Content of Container	Weight of Container per 1L (or 1000 g) of Content
Liquid Body, Particulate Body, Powder Body or Others	Interior content of refill container ≤ Interior content of product	Less than 30 g
	Interior content of refill container > Interior content of product	Less than 50 g

[Certification Procedures]
The weight of container: A (g), the volume of content: B (L) and the weight of container per 1L of content (A/B) shall be stated in the Attached Certificates. Additionally, if the content is a particulate/powder body, the volume of content shall be expressed in dimensions [volume] before product shipment. In addition, if the content is "Others", it would also be acceptable if the volume (B) could replace the weight (g), and the vessel weight (A/B x 1000) per 1000g of the content could satisfy a reference value.

(14) With respect to the colorants used in the base paper, no azo colorants (dyes or pigments) that are likely to generate one or more of the amines listed in Table 3, or if it is used, one or more of the amines listed in Table 3 shall not be detected more than 30 mg per 1 kg of the base paper.

Table 3 Amines that should not be generated by reduction decomposition of azo radicals

		CAS No
1	4-amino diphenyl	92-67-1
2	Benzidine	92-87-5
3	4-chloro-o-toluidine	95-69-2
4	2-naphthyl amine	91-59-8
5	σ amino azo toluene	97-56-3
6	2-amino-4-nitrotoluene	99-55-8
7	*p*-chloroaniline	106-47-8
8	2,4-diamino anisole	615-05-4
9	4,4'-diamino diphenyl methane	101-77-9

10	3,3'-dichloro benzidine	91-94-1
11	3,3'-dimetoxy benzidine	119-90-4
12	3,3'-dimethyl benzidine	119-93-7
13	3,3'-dimethyl-4,4'-diamino diphenyl methane	838-88-0
14	*p*-cresidine	120-71-8
15	4,4'-methylene-bis-(2-chloroaniline)	101-14-4
16	4,4'-oxydianiline	101-80-4
17	4,4'-thiodianiline	139-65-1
18	σ toluidine	95-53-4
19	2,4-toluilene diamine	95-80-7
20	2,4,5-trimethylaniline	137-17-7
21	σ anisidine	90-04-0
22	4-aminoazobenzene	60-09-3

[Certification Procedures]
The Applicant shall submit either 1), 2) or 3) certificate below issued by paper manufacturer.

1) Certificates that corresponding azo coloring agents have not added exceeding 30 mg per 1 kg of base paper
2) Certificate that in calculation, over all possible cases, one or more of amines in Table 1 does not detected exceeding 30 mg per 1 kg of base paper
3) Certificate that one or more of amines in Table 1 are not detected exceeding 30 mg per 1 kg of base paper by the analytical method stipulated under the official test method corpus based on Article 35 of the German Food Stuff and Consumer Goods Law.

(15) No chlorine gas shall be used in the pulp bleaching process.

[Certification Procedures]
The Applicant shall submit certificates issued by the paper manufacturer.

(16) The product whose content is food, cosmetics, or medical related products shall contain no fluorescent material and PCB. When the content contacts any material other than paper, the requirement of harmful substances described in the Standards for Foods, Food Additives, etc. (Ministry of Health and Welfare Notification No. 370, 1959) shall be satisfied.

[Certification Procedures]
Test results of the following three items shall be submitted:

1. An inspection method for an apparatus or containers/packages using fluorescent material（Kanshoku No.244, May 8, 1971）
2. An inspection method for an apparatus or containers/packages using fluorescent material（PFSB/DFS/SED Notification No.0107001 / PFSB/DFS/ISD Notification, No.0107001, January 7, 2004）
3. A method of analyzing PCB in containers/packages（Kanshokuka No.385, October 26, 1972）
If the content contacts any material other than paper, test results stating that the requirements for the corresponding harmful substance has been satisfied shall be submitted.

C. Product not applicable to “A” or “B”

With respect to products not applicable to “A” or “B”, plastic-used part shall conform to 4-2-A and paper-used part shall 4-2-B.

(17) Weight of container shall conform to the criteria in Table 4.

Table 4 Weight of Container against Content

Content	Interior Content of Container	Weight of Container per 1L (or 1000 g) of Content
Liquid Body, Particulate Body or Powder Body	Interior content of refill container ≤ Interior content of product	Less than 25 g
	Interior content of refill container > Interior content of product	Less than 40 g
Others	—	Less than 50 g

[Certification Procedures]
The weight of container: A (g), the volume of content: B (L) and the weight of container per 1L of content (A/B) shall be stated in the Attached Certificates. Additionally, if the content is a particulate/powder body, the volume of content shall be expressed in dimensions [volume] before product shipment. In addition, if the content is “Others”, it would also be acceptable if the volume (B) could replace the weight (g), and the vessel weight (A/B x 1000) per 1000g of the content could satisfy a reference value.

4-3. Quality Criteria and Certification Procedures

(18) Quality of containers shall conform to the industrial voluntary standards or the manufacturer's own standards.

[Certification Procedures]
With respect to the industrial voluntary standards or the manufacturer's own standards, certificates by the Applicant shall be submitted.

5. Product Classification, Indication and Others

Omitted.

July 2, 2007	Established (Version 1.0)
December 13, 2007	Revised (Category A 2-1 (4))
August 21, 2008	Revised (Category A 2-1 (1)(2), Category B 2-1 (3))
March 15, 2010	Extension of Expiration
July 1, 2010	Revised (Category A [Table 2] added, Interpretation A-1)
March 1, 2011	Revised (Version 1.5)
July 13, 2012	Revised (Version 1.6)
October 1, 2013	Revised (Category C, D and E added Version 1.7)
June 1, 2015	Revised (Category A-D, Version 1.8)
June 1, 2016	Addition of Category G and H (Version 1.9)
September 16, 2016	Addition of Category F (Version1.10)
February 1, 2017	Revised (Category D 4-1-1(1) and 5, Category E 5, and Category H 3: Version.11)
June 31,2022	Expiration

The Certification Criteria for the Product Category will be revised when necessary.