Eco Mark Product Category No. 124

“ Glass Products Version2.0”
Certification Criteria (Draft)

—Applicable Scope—

A. Glass Bottles
B. Plate Glass
C. Safety Glass for Road and Railway Vehicles
D. Electrical glass
E. Glass for Physics and Chemistry and Medical Use
F. Glass Filaments

Established: May 1, 2007
Term of validity: April 30, 2012

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. 124

“ Glass Products Version2.0”

Certification Criteria

A. Glass Bottles

Japan Environment Association
Eco Mark Office

1. Applicable Scope

Bottles made of soda lime glass

2. Certification Criteria and Certification Procedure

For certification of compliance to each criterion item, submit the attached certificate.

By the way, in the event that the product is the certified product of Product Category No. 124 “Glass Products Version 1” and is subject to reexamination under the present certification criteria, the certification procedures of 4-1.(3) and (5) and 4-2.(7) of the applicable criterion items may be replaced by stating that there is no change in the requirements and the existing certified product in the attached certificate.

2-1. Environmental Criteria and Certification Procedure

(1) Glass bottles shall satisfy the glass cullet content of Table 1 in accordance with colors of completed products. However, this shall not apply to ultra-lightweight glass bottles.

Table 1 Glass cullet content (excluding ultra-lightweight glass bottles)

Glass bottle color	Glass cullet content
Transparent	More than 65% cullet
Brown	Cullet (other than other colors) + other colored cullet* = 65% or more *The content of other colored cullet shall not be less than 10%.
Other colors	More than 70% other colored cullet

[Certification procedure]
Enter the glass cullet content in the attached certificate and submit the certificate.

(2) For ultra-lightweight glass bottles, the value obtained by the following equation shall be less than 0.7.

Equation: L value = 0.44 x bottle weight (g)/ capacity when full (ml)$^{0.77}$

[Certification procedure]
Enter the weight of bottle, capacity when full, and L value obtained by calculation in the attached certificate and submit the certificate.

(3) Additives (coloring agents, etc.) used in the bottle shall not contain cadmium, lead, mercury, hexavalent chromium, arsenic, selenium, and their compounds as prescription constituents. However, additives (achromatizing agent, etc.) used in transparent glass bottles and transparent lightweight glass bottles shall not contain cadmium, lead, mercury, hexavalent chromium, arsenic, and their compounds as prescription constituents.

[Certification procedure]
Enter the use or no-use of the relevant substance in the attached certificate. In addition, with respect to other colored glass bottles and other colored lightweight glass bottles, submit the ingredient table issued by the manufacturing business of additives (coloring agents, etc.) or MSDS (safety data sheet of chemical substances, etc.), too.

(4) Safety of glass bottles shall be verified and explained (elution of total mercury, hexavalent chromium, arsenic, and selenium). The elution of the relevant substance shall conform to the requirements of Attached Table 2 provided in Enforcement Regulations of Soil Contamination Countermeasures Law (MOE Ordinance No. 29 issued on December 26, 2002).

[Certification procedure]
Submit the test results by a third-party institution or by your company with respect to the elution of the relevant substance from the completed glass bottle.

(5) The glass bottle shall conform to the elution test for cadmium and lead in accordance with the Food Sanitation Law.

[Certification procedure]
Submit the test results in accordance with the Food Sanitation Law with respect to the elution of the relevant substances from the glass bottle.

(6) The production process shall conform to relevant environment regulations and agreements on preventing air pollution, water contamination, noise, vibration, odor and emission of hazardous materials.

[Certification procedure]
Submit a certificate issued by a director of the plant where the product is manufactured, stating that the environmental regulations in the region in which

the glass bottle manufacturing plant is located have been observed for past 5 years since the application and the plant has not violated any of the regulations, etc.

2-2. Quality Criteria and Certification Procedure

(7) The product quality shall conform to self-imposed standards of the industry. Further, the quality control shall be fully practiced at the production process.

[Certification procedure]
Submit a certificate that the product conforms to the applicable quality standard. In addition, submit a certificate issued by a director of the plant where the product is manufactured, stating that quality control is fully practiced in the production process and the plant has not violated any of the regulations, etc.

To be established on May 1, 2007 (Version 2.0)
To be expired on April 30, 2012

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