Eco Mark Product Category No.128

"Household Commodity Version1.20" Certification Criteria D. Laundry, Bath, Sanitary Supplies

Japan Environment Association
Eco Mark Office

1. Purpose of Establishing Certification Criteria

Commodities consist of various products, ranging broadly from kitchen utensils to tableware, home and living supplies, etc. They are the most closely related daily-use products to consumers. Setting an Eco Mark Category for such a group of commodities to recommend eco-friendly products within the category to consumers would therefore contribute enormously to reducing environmental impact in daily living, as well as enhance the environmental awareness of consumers. For this reason, the establishment of this Product Category is considered to have vast environmental significance.

Under the Eco Mark program, the certification criteria of several current product categories have been established taking material into account, namely Product Category No.115 "Wooden Products Using Waste Wood, Thinned-Out Wood, Small-Diameter Logs, etc.", No. 118 "Plastic Products Using Recycled Materials", and No.124 "Glass Products". This new Product Category was established by integrating the commodity products included in those product categories and adding tableware, kitchen utensils, footwear, and home and living supplies to cover a broad range of products.

Existed eight categories of the Eco Mark program cover kitchen utensils including sponges, coffee filters, cooking oil filters, rubber gloves, waste oil absorbers, draining filter bags, strainers, and triangle strainers for kitchen sinks. They have also been organized and integrated into this Commodity category. For these types of products, previous criteria were established from the environmental perspective of preventing discharge of water pollutants, using natural materials, and non-bleaching, but as a result of a general evaluation based on the new product lifecycle concept, they were reviewed also from the perspectives of effective use of resources and chemical substances this time.

As a specific example, Product Category No.5 "Absorbents for Used Cooking Oil" was established for the purpose of reducing waste by preventing the discharge of waste oil which causes water pollution and the use of recycled material, while in this Product Category, the effective use of thinned-wood and waste fiber (cloth, etc.) as unused material differing from recycled material was selected as a new criteria.

2. Applicable Scope

Applicable products of this Product Category are those shown in Attachment 1, selected out of the "Other household equipment and utensils" covered by Standard

Commodity Classification for Japan, issued by the Ministry of Public Management, Home Affairs, Posts and Telecommunications.

However, for products using electricity and products whose weight percentage of metal materials, leather materials, and stone that make up more than 50% of the total product weight are excluded.

Table 1 Applicable product classification

Table 1 Applicable product classification				
Classificati on number	Classification	Products applicable to each classification		
	Laundry utensils and laundry supplies			
	Laundry utensils and laundry	supplies		
85 111	Laundry machines			
85 112	Clothes wringers			
85 113	Portable laundry tubs			
85 114	Wash-boards			
85 115	Ironing boards			
85 116	Irons (including "kote" and "hinoshi")			
85 117	Clothes pins and cords	Futon pegs		
85 118	Fulling boards and tenter-hooks			
85 119	Other	Brushes, Baskets, Laundry hungers, Laundry bags(excluding fabric), Misters		
	Wash basins and bathing sup			
07.001	Wash basins and bathing sup	plies		
85 231	Wash basins			
85 2321	Bath tubs			
85 2322	Stools			
85 2323	Sunoko			
85 2329	Bathtub covers			
85 2329	Bath mats			
85 2329	Shower curtains			
85 2324	Clothes baskets			
85 2329	Body sponge			
85 2329	Pumice stones			
85 2329	Brushes			
85 2329	Sponges			
85 2329	Soap dishes			
85 2329	Dispensers			
	Bathing supplies	1		
85 2329	Towel rings			
85 2329	Towel bars			
85 2329	Other	Shower caps, Shower hats, Bath boots		
	Sanitary			
	Sanitary goods			
85 24	Toothbrushes	Brushes for false tooth, Interdental brushes, Floss, Tongue brushes		
85 99	Toothbrush stands			
77 345	Tumblers			

85 99	Soap cases	Soap cases
85 99	Hooks	
85 99	Floor mats	Joint mats
85 122	Toilet brushes	Pots with brush
85 99	Toilet paper holders	
85 96	Portable toilet	Potty sheets
85 99	Simplified toilets	
85 97	Sanitary bins	
85 99	Other	-

3. Terminology

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Terms for the common criteria				
Disposable products	Products not intended for repeated use while other			
	products in the same area are used repeatedly with durability			
	durability.			
Reusable	Nature of products and packaging designed for			
	repeated use for a certain number of times through			
	recycling.			
Recycling	Indicates material recycling. Does not include			
	energy recovery (thermal recycling).			
Prescription constituents	Components intentionally added with the purpose			
_	of providing specific characteristics to the product.			
	Impurities which are inevitably mixed during the			
	manufacturing process are excluded.			
Plastic sheet	Plate-like thin plastic with 0.25mm and more			
	thickness			
Terms for material				
Recycled material	Materials made of post-consumer materials,			
	pre-consumer materials, or a mixture of these. In			
	this Product Category, includes waste fiber.			
Pre-consumer material	Materials or defective products generated from			
	disposal route of manufacturing process. However,			
	excludes those recycled within the same process as			
	the raw material (same plant).			
Post-consumer material	Materials or products disposed after used as a			
	product.			
Terms for paper				
Percentage of waste	Weight percentage of waste pulp in pulp contained			
paper in the pulp mixture	in product. Expressed by (waste paper pulp) /			
paper in one puip innounc	(virgin pulp + waste paper pulp) x 100 (%).			
	However, the weight of the pulp is measured under			
	the condition of containing 10% moisture. For			
	materials with 100% yield such as pulp mold and			
	cushioning made of cut waste paper, percentage of			
	waste paper in pulp mixture is taken to be 100%			
	regardless of the actual percentage.			
Terms for wood	regardiess of the actual percentage.			
Reused/Unused wood	Indicates the following: thinned wood, waste wood,			
Ticuseu/Offuseu woou	maicares the following: tillilled wood, waste wood,			

	construction waste wood, and less useful wood.
Thinned wood	Wood produced from work activities adjusting the individual density of the objective tree type according to the congested state of forest stand.
Waste wood	Used wood (used packaging material, etc.), remainder material generated in wood processing plants (shavings generated in plywood and lumber plants, etc., low quality chips not used as raw material for paper, etc.), and wood and wooden materials such as trimmed branches, bark, etc.
Construction waste wood	Wood and wooden materials disposed as waste in construction work such as dismantling of buildings, construction of new buildings, building extensions, renovation, and construction related to other work.
Less useful wood	Abandoned lumber in the forest, shrubs, tree roots, wood obtained from lumber damaged by disease, pests, disasters, bent or small diameter logs, etc. Also includes bamboo cut down in bamboo groves for the purpose of maintenance and management in environment preservation. Small diameter logs measuring less than 14 cm in diameter corresponding to "a" or "b" below must be certified as forests sustainably managed by an independent third party. a. Small diameter logs from logs felled from natural forests. b. Small diameter logs from logs produced by clear cutting, patch logging, and strip logging in plantation forests.
Waste plant fiber	Fiber made from agricultural residue (such as stalks that are usually disposed, etc.) generated in harvesting and manufacturing process of crop.
Wooden part	Actual wood (including plant fiber)
Terms for plastic	
Plastic	Materials made of single or multiple polymers, additives, fillers, etc. added to give characteristics
Polymer	Macromolecules, which are the main components of plastic.
Plant-based plastic	Plastic made of bio-based synthetic polymer whose materials are plant. This certification criteria covers polyethylene (PE), polyethylene terephthalate (PET), polylactic acid (PLA) and polytrimethylene terephthalate (PTT).
Bio-based synthetic polymer	Polymer obtained through chemical and/or biological industrial process(es) wholly or partly from biomass resources.
Bio-based synthetic polymer content rate	Amount of biomass resource origin part in biobased synthetic polymer present in the product (or the portion specified in the certification criteria). Natural polymers such as starch are not included. This is defined in ISO 16620-1 3.1.5.

	(original :biobased synthetic polymer content:		
	amount of biobased synthetic polymer present in		
	the product.)		
Terms for glass			
Glass cullet content	Percentage of glass cullet in the whole glass materials used in a product. i.e. Glass cullet content = Glass cullet/Whole glass materials (per product),		
Cullet	(materials are expressed in weight) Glass materials recycle-processed (sorting, elimination of foreign bodies, etc.) from waste glass		
Terms for fiber	offinitiation of foreign boates, etc., from waste grass		
Unused fibers:	Fibers using unused materials such as cotton linters, staples produced during spinning (thread that cannot be used as the same grade, or ones that require some processing when used), fibers extracted from waste plant fiber materials (banana fiber, etc.), etc.		
Cotton linter:	Short cotton linters that start to protrude from the plant four to twelve days after flowering		
Waste plant fiber material	Unused plant fibers including cane, etc., which are usually wasted, such as agricultural residue generated in harvesting and manufacturing process of crop.		
Recycled fibers:	Fibers recycled from pre-consumer and post-consumer materials. Depending on the recycling method, there are reclaimed fibers, recycled polymer fibers, chemically recycled fibers and other recycled fibers (fibers directly recycled from recovered fiber by twisting, cutting, tearing, etc.).		
Recovered fibers:	Waste fiber products including used clothing that have become unnecessary. It refers to both "wasted clothing", the used clothing and used cloth material collected from homes and plants. This term also means "wasted fibers", which are generated from manufacturing processes such as thread wastes from a weaving mill and cutting wastes from a sewing plant.		
Reclaimed fibers:	Fiber which returned to flocculating fiber by raveling a recovered fiber of pre-consumer and post-consumer material with Rag machines		
Recycled polymer fiber:	Fibers recycled from synthetic resin or regenerated materials of synthetic resins in a polymer structure using regenerate flakes or pellets.		
Chemically recycled fiber:	Fibers consisting of polymer from polymerizing monomers obtained by depolymerizing the polymers of regenerated materials of synthetic resin, or synthetic fibers such as nylon and polyester.		
Fiber-based recycled fibers	Recycled fibers whose main contents are recovered fibers from recycled polymer fibers or chemically		

	recycled fibers. Although recovered fibers from		
	pre-consumer and post-consumer materials may be		
	considered materials, they shall only be applied in		
	the event of using recovered fibers from		
	post-consumer materials to be recycled. If major		
	materials of regenerated materials, which are put		
	through a series of recycled processes for the		
	formation of fibers are recovered fibers, even when		
	only a part of the regenerated materials include		
	waste plastic, the total amount of regenerated		
	materials included can be considered recovered		
	fiber-based.		
Plant-based synthetic	Synthetic fiber whose material is plant-based		
fiber	plastic.		

4. Certification Criteria and Certification Procedure

To show conformance to the individual criteria item, the respective Attached Certificates shall be submitted.

4-1. Environmental Criteria and Certification Procedure

4-1-1. Common Criteria and Certification Procedure

(1) In manufacturing the applied 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 substances 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 past five years from the date of application (whether there is any violation) must be reported. If there is any violation, proper remedies and preventive measures shall have been already taken, and the related Environmental Laws, etc. must thereafter be followed appropriately.

[Certification Procedure]

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 business of manufacturing the applied product or the relevant plant manager (entry or attachment of a list of names of the Environmental Laws, etc.) must be submitted.

In addition, the applicants shall report whether there is any violation in the past 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 (clearly indicating a series of communication);
- b. Following materials (copies of recording documents, etc.) 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 roles, etc.);
- 3) Bylaws 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) Products shall not increase waste (products shall not be disposable).

[Certification Procedure]

The use of the applied product shall be indicated in the Attached Certificate.

(3) Products shall consist of less than 50% metal for the total product weight.

[Certification Procedure]

The total weight of metals used in the applied products shall be indicated in the Attached Certificate.

(4) Products shall be shipped in the unpackaged state or in simple packaging at the retail stage. Material labeling of plastic materials used for packaging shall conform to JIS K 6899-1:2000. However, labeling can be omitted in accordance with the standards on ID marks in the "report developed by the Package Labeling Review Committee" (Ministry of Economics, Trade and Industry) such as "labeling for plain containers", "labeling for containers with physical restrictions of display space, etc.", "labeling conditions and methods for multi-layer containers, etc.", "labeling for packaging printed with company/brand name", and "labeling on export products".

[Certification Procedure]

The packaging state in the retail stage of products, packaging material used (content rate of recycled materials), material labeling state shall be indicated in the Attached Certificate. (Drawings and photographs can be used to supplement description). If material labeling is omitted, the reason shall be indicated.

(5) Plastic materials used for packaging shall not be added with polymers including halogens, and organic halogenides shall not be added to products as prescription constituents.

[Certification Procedure]

Whether polymers including halogens and organic halogenides have been added to packaging shall be indicated in the Attached Certificate.

(6) The product shall not use antimicrobial agents as far as possible. In the case of use, the product shall be certified by the SIAA Mark of Society of Industrial technology for Antimicrobial Articles or the SEK Mark of Japan Textile Evaluation Technology Council, etc.

[Certification Procedure]

Compliance with this item shall be indicated in the Attached Certificate.

In the case of using antibacterial agents, documents certifying SIAA Mark of Society of Industrial technology for Antimicrobial Articles, or SEK Mark of Japan Textile Evaluation Technology Council, etc. shall be submitted.

4-1-2. Material criteria and Certification Procedure

Materials of which the product is composed shall meet the material criteria specified below. However, the following material criteria shall not apply to small accessories (screws, shoestrings and other small parts required by the product function) and (14) shall apply to adhesive and the other material criteria shall not apply to adhesives.

A. Paper

- (7) Percentage of waste paper in the pulp mixture shall be above 70%.
- (8) The coating amount on coated printing paper shall be 30 g/m² or less on both sides. However, the maximum amount per side shall be 17g/ m².
- (9) The brightness of uncoated printing paper shall be about less than 70%.
- (10) Addition of fluorescent whitening agents as a prescription constituent shall be minimized.
- (11) Chlorine gas shall not be used in the bleaching process of pulp.

[Certification Procedure]

Certificates issued by the paper manufacturer shall be submitted. For (7) and (8), the waste paper pulp content, and specific coating amount (numerical value) on either and both sides shall be indicated. Documents indicating the results of brightness tests by the Hunter method or based on the ISO whiteness (diffuse blue reflectance factor) shall be submitted. These documents shall indicate the specific whiteness value for the test results, whether florescent whiteners are added. If added, the amount used in the documents submitted.

Whether chlorine has is used in the pulp whitening process shall be indicated.

B. Wood

(12) The percentage of reused/unused wood or waste plant fiber provided by terminology as materials for wooden parts shall be 100% (weight percentage). Less useful wood with small diameters shall satisfy Attachment 1 for forest certification if corresponding to "a" or "b".

(Note) The weight percentage means the weight percentage of the product or each material at the air dried state*1 or at the point of constant weight*2 under the condition of a temperature of 20±2°C and humidity of 65±5%.

- *1: Indicates leaving in a well-ventilated room for seven days or more.
- *2: Change is less than 0.1% when weight is measured every 24 hours.
- *1 is not applicable if lumber and logs are used. It can be applied when using wood corresponding to the water content percentage of 15% or below in domestic and

overseas public dried material water content percentage criteria.

[Certification Procedure]

Documents issued by the raw material vendor certifying that the raw material is reused /unused wood or waste plant fibers shall be submitted. If there are multiple vendors, a list of the vendors and list of certification of the top 10 vendors in terms of volume of material traded shall be submitted.

If using thinned wood as the material, a certificate of origin that includes information on the place of production, type of tree, and year of planting shall be submitted with photographs of the forest concerned (showing clearly that the forest stand has been thinned). The thinning percentage and how many times the forest stand has been thinned, including the most recent thinning shall also be indicated if possible.

If using less useful wood, the following information shall be submitted. At the same time, official documents stating that the forest has been certified as sustainable by a third party shall be submitted.

- Type of forest (natural or man-made, etc.), place of production, type of tree, and year of tree planting if man-made forest.
- Under what conditions was the wood produced (damaged by disease/pests, damaged by disaster, bent or narrow trees, etc.). For small diameter log, indicate logging method and tip end diameter.
 - If using bamboo as the raw material in less useful wood, certificates indicating the following information and photographs/maps of the surroundings of the bamboo grove shall be submitted.
- Type of bamboo, place of production, surrounding conditions, and description that logging is carried out for the purpose of appropriate maintenance and management in environment preservation, as well as management plans and quantity.
- (13) Products shall not use wood preserving agents (wood termicides, preservatives, pesticides, and fungicides) as prescription constituents.

[Certification Procedure]

Whether termicides, preservatives, and pesticides are used as prescription constituents shall be indicated in the Attached Certificate.

(14) Regarding products used indoors, no emissions of toluene or xylene shall be detected at product shipment. "No emissions detected" means less than the minimum value measured by JIS A 1901. "Measuring methods for emission of volatile organic chemicals (VOC), formaldehyde and other carbonyl compounds—small chamber method."

[Certification Procedure]

Results of tests prescribed in JIS shall be submitted. The test method shall be based on JIS A 1901. However tests can be exempted for products not added with toluene and xylene as prescription constituents.

(15) For products used indoors and using adhesive or paint, emissions of formaldehyde from the product, wood material, adhesive or paint shall be of the F**** grade in accordance with JIS or JAS, or falling outside the scope of

regulations by the Ministry of the Land, Infrastructure and Transport. The products should meet the numerical criteria of "a" or "b" below. However, this item is not applied to "incense stick".

- a. The amount of Formaldehyde emissions measured by JIS A 1460 "Building boards Determination of formaldehyde emission Desicator method" shall be below 0.3 mg/l for average value and below 0.4 mg/l for maximum value.
- b. The emission rate of formaldehyde measured by JIS A 1901 "Determination of the emission of volatile organic compounds and formaldehydes for building products -- Small chamber method" shall be less than 5µg/(m2-h).

[Certification Procedure]

Results of tests prescribed in JIS A 1460 or JIS A 1901 or tests by methods prescribed in specific JIS or JAS criteria shall be submitted to indicate that standard values are met. For materials and products permitted to be labeled F**** grade in accordance with JIS and JAS, documents certifying this or copies of such documents can be submitted in place of test results. For materials and products authorized as falling outside the scope of regulations by the Ministry of Land, Infrastructure and Transport, documents certifying this or copies of such documents can be submitted in place of test results. For materials and products permitted to be labeled as using non-formaldehyde adhesives by JAS, documents certifying this or copies of such documents can be submitted in place of test results.

C. Plastic

(16) Weight percentage of recycled polymer in the total raw material polymer of the product shall be over 50% for products made of post-consumer materials as the raw material polymer. However, for products made of pre-consumer materials as the raw material polymer, weight percentage of recycled polymer made from pre-consumer materials in the total raw material polymer of the product shall be over 60%.

For toothbrushes, replacement of only a brush section may be acceptable. In addition, a tooth brush with 3 or more brush sections shall be sold as a set so that a user can replace a brush section more than twice, and only also a replacement brush shall be available.

For film products, weight percentage of recycled polymer in the total weight of raw material polymer shall be over 40%.

For synthetic paper, weight percentage of recycled polymer in the total weight of raw material polymer shall be over 50%.

Products using plant-based plastic shall meet the criteria item (17) instead of this item

[Certification Procedure]

The weight percentage of pre-consumer materials and post-consumer materials making up the whole product shall be indicated in the Attached Certificate. Raw material certificates issued by the raw material supplier shall also be attached.

For toothbrushes with a replaceable brush section, a product label, package, instruction manual, pamphlet, etc. that describe a breakdown of a product to be sold as a set, a method for replacing a brush section, and a statement that a replacement brush is available shall be submitted.

- (17) Products using plant-based plastic shall meet all requirements in the following a) to c). Regarding plant-based synthetic plastic, PE, PET, PLA and PTT shall be applicable.
 - a) The content of bio-based synthetic polymer in the product shall be equal to or higher than 25%;
 - b) The Applicant shall have the understanding of the supply chain from cultivation of plant materials to manufacturing of plant-based plastic (raw resin). Each process shall conform to the checklist in the Attachment 2; and
 - c) The Applicant shall have confirmed by the life cycle assessment (LCA) that for the plant-based plastic (raw resin), greenhouse gas emissions (CO₂ conversion) from raw material procurement to discarding/recycling does not increase, when compared with conventional resin that is to be replaced. Note that if any increase in the emissions is offset by the reliable carbon offset (such as purchasing clean electric power, etc.), the applied product shall also conform to this item.

[Certification Procedure]

a) Certificates indicating the calculated content of bio-based synthetic polymers in the product shall be submitted. For the plant-based plastic (raw resin) thereof, measurement results of the bio-based synthetic polymer content calculated with the method specified in ISO 16620-3, using measurement results of the bio-based carbon content and element composition by the 14C method specified in ISO 16620-2 or ASTM D6866 shall be mentioned. Should there be any deviation of 10% or higher between the measurement results and the content of bio-based synthetic polymer in the standard, a description of a reason(s) therefor shall also be included. The measurement results of the bio-based carbon content shall be submitted as an attached document.

In addition, for appropriate maintenance of the content of bio-based synthetic polymer after certification, any of the following certificates issued by a raw resin supplier (including a dealer) shall be submitted.

- An explanatory document stating that measurements of the content of bio-based carbon will be regularly carried out, and that measurement results can be disclosed as per a request of the Eco Mark Office; and
- A certificate that the Applicant has been audited or certified by a third party for management of the content of the bio-based synthetic polymer.
- b) Certificates issued by a raw resin supplier (including a dealer) indicating the supply chain (flow diagram, etc. and including purification, fermentation, etc.) from the cultivation area (country, state, city, etc.) to manufacturing of plant-based plastic (raw resin), and status of conformance to the Attachment X shall be submitted.
- c) Results of the LCA assessment of the plant-based plastic (raw resin) shall be submitted (reference to the existing paper, etc. is acceptable). If carbon offset is adopted, data describing content of the carbon offset and reliability shall be submitted together.
- (18) HCFCs shall not be used during the manufacture of plastic materials.

[Certification Procedure]

Certificates issued by the manager of the plant manufacturing the plastic material shall be submitted.

(19) Polymers including halogens and organic halogen compounds shall not be added to plastic products as prescription constituents.

[Certification Procedure]

Whether polymers including halogens and organic halogenides have been added to packaging shall be indicated in the Attached Certificate.

(20) Products shall not contain harmful substances such as heavy metal, etc. prescribed in laws and voluntary criteria of the industry concerned as prescription constituents.

Plastic additives shall conform to the positive list prescribed in the voluntary criteria of each industry such as the Japan Hygienic Olefin And Styrene Plastics Association.

The plastic color material shall conform to the "color material criteria" of the Japan Hygienic Olefin And Styrene Plastics Association for the content and emissions of heavy metal, etc.

[Certification Procedure]

Certificates issued by the raw material supplier, or documents certifying results of tests performed by a third party testing center or public institution shall be submitted. However, if all the raw materials used do not contain the corresponding chemical substances as prescription components, documents certifying this issued by the raw material suppliers or applicant can be submitted instead.

(21) The product shall not contain Polybrominated biphenyl (PBB), Polybrominated diphenylether (PBDE) or short-chain chlorinated paraffin (the number of chained C is 10 to 13 and contained chloride concentration is 50% or over) as a prescription constituent when flame retardant is used in plastics.

[Certification Procedure]

Compliance with this item shall be indicated in the Attached Certificate. In the case of using flame retardant, the applicant shall submit a document specifying the names of chemical substances.

D. Glass

(22) Use of glass cullet shall be above 70% (weight percentage). It shall be above 20% (weight percentage) in heat-resistant glass.

[Certification Procedure]

The utilization rate of glass cullet and weight percentage of glass materials making up the whole product shall be indicated in the Attached Certificate.

(23) Safety of the glass bottle (elution of total mercury, chromium, arsenic,

selenium) shall be verified and explained. The elution of the subject materials shall conform to the requirement of the Environmental Standard concerning soil pollution (the Ministry of Environment Notice No.46, Aug.23, 1991).).

[Certification Procedure]

Purchasing methods and acceptance test standards (for cadmium, lead, mercury, chromium, arsenic, and selenium; tests may not be required for certain substances) of glass cullets shall be submitted.

(24) Coloring agents used in products shall not contain cadmium, lead, mercury, chromium, arsenic, selenium and their compounds as prescription constituents.

[Certification Procedure]

Component list issued by the manufacturer of coloring agents or the Material Safety Data Sheet (MSDS) shall be submitted.

E. Fibers

(25) Fibers used in the product shall make up less than 50% of the exterior of products.

[Certification Procedure]

The percentage of fibers making up the exterior of products excluding accessories shall be indicated in the Attached Certificate.

- (26) Fibers of products shall meet one of the following conditions: a, b, or c.
 - a. The weight of waste fibers or recycled fibers in the total weight of the product shall meet the Standard Mixture Amount shown in Table 3.
 - b. The fiber portion of products shall be made of 100% cotton. At the same time, products shall be, made of unbleached cotton, hydrogen peroxide bleached cotton or ozone bleached cotton, and without using florescent whitener.
 - c. The fiber portion of products shall be made of 100% natural fibers such as cotton. At the same time, products shall be organically grown material.

Table 3. Standard Mixture Amount of Fiber Versus Total Weight of Product

Type of Fiber	Standard Mixture Amount			
Waste fibers	10% or more		70% or more for products using cupra fibers, and unused material shall be 10% or more	
Recycled fiber	Reclaimed fiber 10% or more		е	
	Recycled polymer fiber	50% or more	For the amount of resin content, recycled polymer shall be 50% or more.	
		25% or more	For fiber-based recycled fibers, the recovered	

		fiber-based recycled polymer shall be 25% or more.
Chemically recycled fiber	50% or more	Recycled monomer as monomer content shall be 50% or more.
	25% or more	For fiber-based recycled fibers, the recovered fiber-based recycled polymer shall be 25% or more.
Other recycled fiber	50% or more	9

[Certification Procedure]

The applicant or the manufacturer shall submit a certificate indicating the mass ratio of the fiber material. They shall submit a material certificate indicating the details of unused/recycled materials, recycled methods, content rate, management methods, etc. which was issued by the supplier of the fiber material. When criteria for fiber-based recycled fibers are applied, amounts of recycled materials received (amounts used) and their breakdown (recovered fiber, other waste plastic, etc.) and results from a recent year, as well as their receiving system and results of recovered fiber from post-consumer materials shall be reported. However, when Eco Mark-certified products are used for the cloth, the indication of the "Product brand name", "Certification number" and "Model (product number)" in relation to the cloth, etc. in the attached certificate may be substituted for a materials certificate.

- (27) The product containing plant-based synthetic fiber shall meet all the following requirements, a-c.
 - a. The content ratio of bio-based synthetic polymer in the total mass of the fiber portions shall be 10% or more. Also, the mass ratio of plant-based synthetic fiber in the total mass of the fiber portions shall be 25% or more. Regarding plant-based synthetic resin, PE fibers, PET fibers, PLA fibers and PTT fibers shall be applicable.
 - b. The applicant shall have the understanding of the supply chain from cultivation of plant materials to manufacturing of plant-based plastic (raw resin). Each process shall conform to the checklist in the Appendix X; and
 - c. The applicant shall have confirmed by the life cycle assessment (LCA) that for the plant-based plastic (raw resin), greenhouse gas emissions (CO₂ conversion) from raw material procurement to discarding/recycling does not increase, when compared with conventional resin that is to be replaced. Note that if any increase in the emissions is offset by the reliable carbon offset (such as purchasing clean electric power, etc.), the applied product shall also conform to this item.

[Certification Procedure]

a. The applicant or the manufacturer shall submit a certificate calculating the

bio-based synthetic polymer content ratio and the mass ratio of plant-based synthetic fibers in the fiber portion and a material certificate indicating bio-based synthetic polymer content ratio in the bio-based synthetic fiber material issued by a fiber material supplier or a raw resin supplier. For the plant-based plastic (raw resin) thereof, measurement results of the bio-based synthetic polymer content calculated with the method specified using bio-based carbon content in ISO 16620-3, using measurement results of the bio-based carbon content and element composition by according to the 14C method specified in ISO 16620-2 or ASTM D6866-05 shall be mentioned. Should there be any deviation of 10% or higher between the measurement results and the bio-based synthetic polymer content rate in the standard, a description of a reason(s) therefor shall also be included.

The measurement results of the bio-based carbon content rate shall be submitted as an attached document.

In addition, for appropriate maintenance of the bio-based synthetic polymer content rate after certification, any of the following certificates issued by a raw resin supplier (including a dealer) shall be submitted.

- An explanatory document stating that measurements of the bio-based carbon polymer content rate will be regularly carried out, and that measurement results can be disclosed as per a request of the Eco Mark Office; and
- A certificate that the Applicant has been audited or certified by a third party for management of the bio-based synthetic polymer content rate.
- b. Certificates issued by a raw resin supplier (including a dealer) indicating the supply chain (flow diagram, etc. and including purification, fermentation, etc.) from the cultivation area (country, state, city, etc.) to manufacturing of plant-based plastic (raw resin), and status of conformance to the Attachment 2 shall be submitted.
- c. Results of the LCA assessment of the plant-based plastic (raw resin) shall be submitted (reference to the existing paper, etc. is acceptable). If carbon offset is adopted, data describing content of the carbon offset and reliability shall be submitted together.

However, when an Eco Mark certified product is used for an intermediate product, the indication of the "Product name (Product brand name)", "Certification number" and "Model (product number)" in relation to the thread, cloth, etc. in the attached certificate may be substituted for the certificate for a raw resin supplier (including a dealer) or a fiber material supplier (a material certificate, measurement results of the bio-based synthetic polymer content, a certificate of the appropriate maintenance of bio-based synthetic polymer content rate after certification, Checklist of Traceability of Plant-based Plastic (Raw Resin), LCA evaluation result).

- (28) Use of chemical substances in products shall meet all the following requirements, a-c.
 - a. Adequate consideration shall be given so that various processing (mildew proofing, fluorescent whitening, flame retarding, softening, sanitation, antimicrobial finishing, product bleaching) is limited to a necessity minimum, products will not be subjected to excessive processing, and that use of any processing agent that is suspected to affect safety to human body should be refrained voluntarily. Also, standard values in Attachment 2-1 shall be met.

The product shall not contain such flame retardants as Polybrominated biphenyl

- (PBB), Polybrominated diphenylether (PBDE), short-chain chlorinated paraffin (the number of chained C is 10 to 13 and contained chloride concentration is 50% or over) or Hexabromocyclododecane (HBCD) when flame retardant is used.
- b. The amount of free formaldehyd shall conform to a standard value in Attachment2-2. However, this item shall not be applied to a product which is installed outside the buildings; and
- c. For a dye and pigment to be used in the product, dyes and pigments and chrome defined in 1), 2), and 3) of the Attachment 2-3 shall not be added as a prescription constituent.

[Certification Procedure]

- a. The applicant or the manufacturer shall submit a certificate indicating the processing or non-processing of the product. If a type of processing or chemical agent that is being considered is made or used, a safety data sheet which confirms the non-use of the substance in Table 7, or a certified document of the test results, etc. shall be submitted.
- b. For amount of free formaldehyde, test result by a third-party testing organization or an applying company itself shall be submitted.
- c. The non-use substance or test results issued by the dye plant (including spin-dyeing and printing) shall be submitted. If the non-use of dyes, pigment and chromate stipulated in 1), 2) and 3) of Table 9 at each phase of the supply chain in relation to fiber materials excluding small accessories is confirmed by complying with voluntary standards (Japan Textile Federation), regarding the non-use of hazardous substances on fiber products and management is implemented by clarifying traceability, a certificate (including a sample of the confirmed documents), which describes the management method issued by the applicant or the manufacturer is acceptable
- (29) Products shall not use resins made of halogens. (This item applies to resin fibers and post-processes and does not apply to coloring materials and fluorine-based additives).

[Certification Procedure]

Whether resins composed of halogens are used shall be indicated in the Attached Certificate

F. Rubber

(30) The weight percentage of recycled rubber out of the total rubber used in the product shall be above 10%. However, this shall be over 60% for normal temperature molded products using rubber powder.

[Certification Procedure]

The weight percentage of recycled rubber materials making up the total rubber weight shall be indicated in the Attached Certificate. Raw material certificates issued by raw material suppliers shall be attached.

(31) Harmful substances contained in rubber shall conform to criteria on heavy metals prescribed in the Ministry of Environment Notice No.46, Aug.23, 1991.

[Certification Procedure]

Certificates issued by raw material suppliers and documents certifying results of tests implemented by a third party testing center or public institution shall be submitted. However, if all the raw materials used do not contain the corresponding chemical substances as prescription components, documents certifying compliance with this criterion issued by the raw material suppliers or applicant can be submitted instead.

(32) The product shall not contain Polybrominated biphenyl (PBB), Polybrominated diphenylether (PBDE) or short-chain chlorinated paraffin (the number of chained C is 10 to 13 and contained chloride concentration is 50% or over) as a prescription constituent when flame retardant is used in rubber.

[Certification Procedure]

Compliance with this item shall be indicated in the Attached Certificate. In the case of using flame retardant, the applicant shall submit a document specifying the names of chemical substances.

(33) Information on appropriate handling of products such as precautions on handling and storage and allergy information, etc. shall be provided in instruction manuals, on product labels, and in pamphlets.

For labeling of allergy information on products, the following requirements shall be observed:

- a. In material labeling, name of materials related to natural rubber, rubber, or plastic shall be indicated. For synthetic rubber and plastic, indicate the specific name in brackets behind the name of the material.
 - Example: Synthetic rubber (nitrile rubber), natural rubber
- b. For synthetic rubber, natural rubber and plastic products, in addition to the current precautions on use, also include precautions on use for allergy referring to Example 1 below. For natural rubber products, in addition to the current precautions on use, also include precautions on use for latex allergy referring to Example 2.
 - Example 1: May cause itchiness, skin irritation, rash. In such cases, discontinue use.
 - Example 2: This product is made of natural rubber. Natural rubber can rarely cause itchiness, redness, rash, bloating, fever, difficulty in breathing, asthma-like symptoms, drop in blood pressure, shock, and other allergic symptoms. In such cases, discontinue use promptly and consult your physician.

[Certification Procedure]

Labeling of allergy information shall be indicated specifically in the Attached Certificate. (Drawings and photographs can be used to supplement description)

G. Ceramics

(34) For ceramics, for each raw material category given in Table 4, the weight of

recycled materials in the total weight of the product shall meet the Standard Mixture Amount shown. However, for products made of several recycled materials so that they apply to several Standard Mixture Amount in Table 4 below, the total weight percentage of all recycled materials shall be above the standard mixture amount shown. The Standard Mixture Amount lower limit is calculated using the following equation based on the proportional composition.

Standard Mixture Amount (lower limit of recycled material)(%) = (AxX1+BxX2)/(A+B)

(Set for products using [Standard Mixture Amount X1% category material] = A% and [Standard Mixture Amount X2% category material] = B%)

Table 4 Raw Material Categories of Recycled Materials, Certification on Use, and Standard Mixture Amount

Category and name of of rec	Standard Mixture Amount ^{Note2)}		
Category	Name of recycled material	(Weight%)	
Waste from mines and ceramics and quarries and quarries -Micro silica sand generated at separation of silica by water		35%	
Metal industry waste	-Steel slug -Casting sand -Copper slug -Ferro-nickel slug -Electrical furnace slug	3070	
Used pottery		15%	
Glass cullet		Glass weight/product weight $\geq 15\%$ Glass cullet use rate $\geq 70\%$	
Other industrial waste	-Coal ash -Shell	50%	

Note 1) For products in which a small amount of colorant is added to molten parts, the weight of colorant shall not be included in the weight of all materials used for calculating the standard mixture amount.

Note 2) For the products containing moisture, use dry weight, and for fired and molten products, the weight loss on burning shall not be included.

Note 3) For products applicable to several standard mixture amounts in this table due to multiple recycled materials used, calculate the standard mixture amount on a proportional basis.

Example) Fired and molten parts using ceramic waste and sewer sludge

Ceramic waste A (%)(Standard mixture amount 35%)

Used pottery B (%) (Standard mixture amount 15%)

In this case, the standard mixture amount (lower limit of recycled material content) (%) is (Ax35+Bx15)/(A+B).

Consequently, in this case, the A+B total content rate is required to be above the standard mixture amount calculated in the above equation.

Note 4) For products using glass cullets in the raw material category in Table 3, the weight percentage of glass materials making up the product weight shall be above 15%, and the rate of using glass cullets shall be 70%.

[Certification Procedure]

The standard mixture amount and total weight percentage of the recycled materials shall be indicated in the Attached Certificate for each raw material category in Table 4. Raw material certificates issued by raw material suppliers shall be attached.

(35) The Product shall conform to the standards concerning elusion of heavy metals and other hazardous substances that are set forth in Attached Table 2 of the enforcement regulation of the Soil Contamination Countermeasures Law (2002 Ministerial Order No. 29 of the Ministry of the Environment) with respect to cadmium, lead, hexavalent chromium, arsenic, mercury, selenium among the specified hazardous substances listed therein.

[Certification Procedure]

The results of tests conducted by a third party testing organization or a public organization shall be submitted.

4-1-3. Criteria on individual products and Certification Procedures

(33) For products composed of multiple materials such as "clothespins, laundry line", parts composed of different materials including other living and cultural supplies shall be easy to separate to facilitate recycling. If the used materials are consistent, the standard mixture amount of each material shown in Table 5 shall apply.

Table 5 Criteria on Materials in which products composed of consistent material in multiple parts

Material	Standard mixture amount of recycled materials		
Paper	Same as 4-1-2. Criteria for paper		
Wood	Same as 4-1-2. Criteria for wood		
Plastic	50% (Post consumer material is 50%)		
Glass	60%		
Fiber	Same as 4-1-2. Criteria for fibers		
Rubber	Same as 4-1-2. Criteria for rubber		
Ceramics	Value deducting 10% from the content rate		
	shown in 4-1-2.(34) Table 4		

[Certification Procedure]

Documents with drawings showing clearly that products have been designed so that separation and sorting are easy shall be submitted. If materials used are consistent, document indicating this shall be submitted.

4-2. Quality criteria and Certification procedure

(37) The product quality shall conform to Japanese Industrial Standard, Japan Agricultural Standards and the industry quality standards. In addition, the quality control is adequately implemented in the manufacturing stage.

[Certification Procedure]

Certificates of compliance with the corresponding quality criteria shall be submitted. At the same time, certificates and declarations issued by the manager of the plant manufacturing the product that quality control is implemented in the manufacturing stage and shipped that only products passing quality inspections are shipped shall be submitted. If the applied product or the manufacturing plant of the applied product is JIS or JAS certified, submission of a photocopy of such JIS or JAS certification shall be sufficient for certification of conformance to this item.

5. Considerations

In manufacturing products, it is desirable to consider the following, although they are not requirements for certification. The conformance to the individual criteria item shall be indicated in Attached Certificates.

- (1) Products shipped in simple packaging shall meet the following criteria for packaging material.
 - a. Percentage of waste paper in the pulp mixture shall be above 70%
 - b. Weight percentage of recycled polymers in the total raw material polymers used in plastic sheets shall be above 60%.

6. Product Classification, Indication and Others

- (1) Products shall be classified by the sub-category purposes and by brand or series name indicated in Table 1 of 2. Applicable Scope. Products shall not be classified by size or color. However bathroom supplies, and toiletries shall be classified by the sub-category purposes indicated in Table 1, and by brand or series name. When applying for certification of a toothbrush with a replaceable brush section, an applicant shall be able to include a replacement brush in the same product category.
- (2) Environmental information for each product category shown in Attachment 4 shall be indicated below the mark. The environmental information indicated shall be enclosed in a rectangular box. However, the indication of Eco Mark and certification information (Type B indication) can be allowed by following "Guide to Eco Mark usage" (enforced on March 1, 2011). The location and details of the Eco Mark to be indicated shall be submitted when applying for Eco Mark product certification and use.

For Eco Mark products certified under Eco Mark Product Category No.115 'Products Using Thinned-out Wood, Reused Wood, etc.', No.118 'Plastic Products Using Recycled Materials' or and those which conclude Eco Mark contract under this product category after April 1, 2005, the display of environmental information below mark which is used in the former product category may be indicated the

same as before.

(3) The Eco Mark indication method shall be followed in accordance with Guide to Eco Mark Usage.

Established: July 1, 2004 (Version 1.0)

Revised: Oct 14, 2004, Applicable Products, etc (Version1.1)

Revised: May 13, 2005, 4-6(1) and Attachment 1 (Version1.2)

Revised: Sept. 8, 2005, 4-1-2.(15) (Version 1.3)

Revised: October 19, 2006, 4.(23)-(26), 4.(51)-(54), 6(2) (Version 1.4)

Revised: April 13, 2007, 4-1-2.(15) (Version 1.5)

Revised: August 2, 2007, 4-1-3.(42) (Version1.6)

Extension of Expiration date: Oct. 5, 2007

Revised: Feb. 14, 2008, (Version 1.7)

Revised: August 21, 2008, (Version 1.8)

Revised: May 1, 2009, (Version 1.9)

Revised: November 4, 2009, (Version1.10)

Revised: December 13, 2010, (Version1.11)

Revised: March 1, 2011, (Version 1.12)

Revised: August 1, 2011, (Version1.13)

Revised: November 1, 2011, (Version1.14)

Revised: February 1, 2012, (Version 1.15)

Revised: July 5, 2012 (Version 1.16)

Extension of Expiration date: February 1, 2014

Revised: June 1, 2015, (Version 1.17)

Revised: June 1, 2016 (Version 1.18)

Revised: February 1, 2017, (Version1.19)

Revised: September 1, 2017, (Version1.20)

Expiration date: June 30, 2020

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

Attachment 1 Forest Certification defined in Terminology

	a contract of the contract of	
Certification criteria	Certification shall keep balance between ecological and	
	social benefits, agree to Agenda 21 and the Declaration	
	of Forest Principle, and observe related international	
	agreements and treaties.	
	Certification shall contain definite requirements and	
	shall promote and be oriented to sustainable forest.	
	Certification shall be nationally or internationally	
	recognized and shall be recommended as part of an	
	open process to which ecological, economic, and social	
	interested parties can participate.	
Certification system	The certification system shall provide high	
	transparency, maintain extensive national or	
	international reliability, and enable the verification of	
	requirements.	
Certification	Certification organization and association shall be	
organization and	highly impartial and reliable, allow them to be verified	
association	as to whether or not they satisfy requirements, report	
	the verification results, and be able to effectively	
	implement requirements.	

Attachment 2 Checklist of Traceability of Plant-based Plastic (Raw Resin)

No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
1	Prevention of global warming, conservation of the natural ecosystem	Hasn't the farm land where plants are cultivated been converted from forests in the recent ten years?	Farm land	□Yes/ □No	□Confirmed the laws and regulations concerning the land conversion for the site. □Gained the understanding of the actual condition of the site through on-site investigation or hearings. □Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party. - Name of the guideline: - Location of release: □Also using the certification system of an independent third party, regarding the procurement of plants. -Name of certification system: □Others (Describe specifically.):
2	Conservation of the ecosystem	If the Applicant uses the genetically engineered crop as a raw material, has the Applicant assessed ensuring of safety?	Farm land	□Yes/ □No/ □Not applicable (Not used)	□Confirmed the laws and regulations concerning genetically engineered crop on the site. □Gained the understanding of the actual condition of the site through on-site investigation or hearings. □Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party. - Name of the guideline: - Location of release: □Also using the certification system of an independent third party, regarding the procurement of plants. -Name of certification system: □Others (Describe specifically.):

No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
3	Prevention of land acidification/nutrient enrichment/water contamination		Farm land	□Yes/ □No	□Confirmed the laws and regulations concerning fertilizers/agricultural chemicals on the site □Gained the understanding of the actual condition of the site through on-site investigation or hearings. □Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party Name of the guideline: - Location of release: □Also using the certification system of an independent third party, regarding the procurement of plantsName of certification system: □Others (Describe specifically.):
4	Appropriate water usage	Has the Applicant gained the understanding of usage conditions of water in the main cultivation area of plants?	Farm land	□Yes/ □No	□Confirmed the laws and regulations concerning usage of water (limits on the amount of water) on the site. □Gained the understanding of the actual condition of the site through on-site investigation or hearings. □Defined and released the guideline for procurement of plants. Alternatively, conforming to the guideline of an independent third party. - Name of the guideline: - Location of release: □Also using the certification system of an independent third party, regarding the procurement of plants. -Name of certification system: □Others (Describe specifically.)

No	Purpose	Request (Item that must be realized)	Subject	Realized	Implementation Method (Check off all relevant items.)
5	Use of recycled resources, avoidance of competition for food	part of crude raw materials of	Raw resin	□Yes/ □No/ □Not applicable (Not available)	Name of recycled resource in use [
6	Prevention of global warming	Has the Applicant gained the understanding of the processing status of biogas (such as methane) having a high global warming potential that is generated in the course of reaction of plant-based ethanol in the manufacturing plant for the main crude raw material?	Crude raw material manufacturing plant	□Yes/ □No	□Gained the understanding of the actual condition of the site through on-site investigation or hearings. □Others (Describe specifically.) []
7	Utilization of non-fossil energy sources and renewable sources	If a plant is newly set up in the course of cultivation to raw resin manufacturing, did the Applicant utilize as many non-fossil energy sources (for example, bagasse or biogas) or renewable energy sources as possible?	Manufacturing plant	□Yes/ □No	Energy name and method of utilization []
8	Legal compliance	Is discharged water in the plant controlled in accordance with the laws and regulations of the region, etc., where the plant for manufacturing the plant-based plastic (raw resin) is located?	Resin manufacturing plant	□Yes/ □No	Attach data describing the control of discharged water of the plant

Attachment 3-1. Standard value for processing agents of fiber material

Name	Criteria	Test Method	Concerned Products	
Organic mercury	Shall not be	MHW Ordinance	Products using	
compound	detected	No. 34	fungicide	
Triphenyltin compound				
Tributyltin compound				
Dieldrin	30 ppm or less	MHW Ordinance	Products using wool	
DTTB		No. 34	products or	
		OekoTex	mothproofing agents	
APO	Shall not be	MHW Ordinance	Products using fire	
TDBPP	detected	No. 34	retardant agents	
Bis (2,3-dibromopropyl)				
phosphate compound				
PFOS	1μg/m² or less	CEN/TS15968:20	Products using	
PFOA	1μg/m² or less	10	fluorine system water	
		ISO25101	repellent agents, oil	
		OekoTex	repellent agents or	
			soil-release finishing	
			agents	
DEHP/ DBP/ BBP/	0.1wt% or less	EN15777:2009	Printed products for	
DNOP/ DINP/ DIDP		MHL notification	small babies	
		No. 370		
		OekoTex		

Attachment 3-2 Standard of formaldehyde amount

Name of Substance	Clothes for infants (under 24 months old)	Products likely to touch the skin (beddings, towels, and fabricated basic textiles for inner wear and underwear)	Other products (curtains, carpets, aprons, etc.)	Test Method
Formaldehyde	Not detected (16ppm or less)	75ppm or less	300ppm or less	Ordinance No. 34 of the Ministry of Health and Welfare

Attachment 3-3 List of prohibited dyes and pigments

1) Azo Dyes which may generate the following carcinogenic amines in degradation (Dyes whose detection value of the following aromatic amine exceed 30mg/kg according to JIS L 1940-1 and JIS L 1940-3 (ISO24362-1, ISO24362-3, or EN 14362-1, EN14362-2))

	· · · · · · · · · · · · · · · · · · ·
CAS No	Name
92-67-1	4-Aminobiphenyl
92-87-5	Benzidine
95-69-2	4-Chloro-o-toluidine
91-59-8	2-Naphthylamine
97-56-3	o-Aminoazotoluene
99-55-8	2-Amino-4-nitrotoluene
106-47-8	4-Chloroaniline
615-05-4	2,4-Diaminoanisole
101-77-9	4,4'-Diaminodiphenylmethane
91-94-1	3,3-Dichlorbenzidine
119-90-4	o-Dianisidine; 3,3'-Dimethoxybenzidine
119-93-7	o-Tolidine; 3,3'-Dimethylbenzidine
838-88-0	4,4'-Diamino-3,3'-dimethyldiphenylmethane
120-71-8	p-Cresidine
101-14-4	4,4'-Diamino-3,3'-dichlorodiphenylmethane
101-80-4	4,4'-Diaminodiphenyl ether
139-65-1	4,4'-Diaminodiphenyl sulfide
95-53-4	o-Toluidine
95-80-7	2,4-Diaminotoluene
137-17-7	2,4,5-Trimethylaniline
90-04-0	o-Anisidine
95-68-1	2,4-Xylidine
87-62-7	2,6-Xylidine
60-09-3	4-Aminoazobenzene

2) Carcinogenic Dyes

CAS No	C.I.	
569-61-9	C.I. BASIC RED 9	CI 42500
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500
3761-53-3	C.I. ACID RED 26	CI 16150
2602-46-2	C.I. DIRECT BLUE 6	CI 22610
1937-37-7	C.I. DIRECT BLACK 38	CI 30235
573-58-0	C.I. DIRECT RED 28	CI 22120
2832-40-8	C.I. DISPERSE YELLOW 3	CI 11855
632-99-5	C.I. BASIC VIOLET14	
82-28-0	C.I. DISPERSE ORANGE11	

3) Skin Sensitizing Dyes

	0 0	
2475-46-9	C.I. DISPERSE BLUE 3	CI 61505
12222-75-2	C.I. DISPERSE BLUE 35	
	C.I. DISPERSE BLUE 106	
	C.I. DISPERSE BLUE 124	
2832-40-8	C.I. DISPERSE YELLOW 3	CI 11855
730-40-5	C.I. DISPERSE ORANGE 3	CI 11005
	C.I. DISPERSE ORANGE 37	
2872-52-8	C.I. DISPERSE RED 1	CI 11110
2475-45-8	C.I. DISPERSE BLUE 1	CI 64500
3179-90-6	C.I. DISPERSE BLUE 7	CI 62500
3860-63-7	C.I. DISPERSE BLUE 26	CI 63305
	C.I. DISPERSE BLUE 102	
	C.I. DISPERSE ORANGE 1	CI 11080
	C.I. DISPERSE ORANGE 76	
2872-48-2	C.I. DISPERSE RED 11	CI 62015

	C.I. DISPERSE RED 17	CI 11210
119-15-3	C.I. DISPERSE YELLOW 1	CI 10345
	C.I. DISPERSE YELLOW 9	CI 10375
	C.I. DISPERSE YELLOW 39	
	C.I. DISPERSE YELLOW 49	
	C.I. DISPERSE BROWN1	

Omitted below.
