## Product Environmental Aspects Declaration



EP and IJ printer (PCR-ID:AD-04)

No. AD-18-E1085 Date of publication Sep./19/2018

# RICOH imagine. change.



Environment Contact: RICOH Company, Ltd. Corporate Communication Center email: envinfo@ricoh.co.jp



### **MP C501SP**

【 Part #418149 】

1.Printing process: Electrophotography (EP)2.Color: Monochrome and Full-color3.Print speed: 50 prints/minute (8.5" x 11")

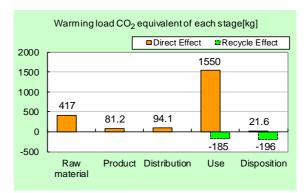
Use stage conditions:

Period of use: 5 years, Amount of use: 1,497,600 pages

\*\*The warming load of the use stage does not include environmental impact
originated from printing paper, as specified in the PCR.

| Consumption and discharge in a  | All the stage sum totals |
|---------------------------------|--------------------------|
| life cycle                      | เบเลเร                   |
| Global Warming (CO <sub>2</sub> | 2160kg                   |
| equivalent)                     | (1780kg)                 |
| Acidification (SO <sub>2</sub>  | 3.67kg                   |
| equivalent)                     | (3.18kg)                 |
| Energy resources (crude oil     | 40.7GJ                   |
| equivalent)                     | (32.7GJ)                 |

 $\%\mbox{Figures}$  in ( ) indicated environmental impact including recycle effect \*note3



#### Notes:

- 1. Original LCA data is available on PEIDS: Product Environmental Information Declaration Sheet, and Product Data Sheet.
- 2. Unified rules and requirements for EcoLeaf LCA, for intended product category, are available as a PCR: Product Category Rule. Visit EcoLeaf website under JEMAI homepage at http://www.ecoleaf-jemai.jp/eng/ for details.
- 3. Recycle Effect illustrates an indirect influence to other products/services.
- 4. Basic Units used for calculations are based on Japan domestic data at this time, due to a lack of base data to establish localized Basic Unit for overseas locations adequately.
- 5. This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.

#### [Supplemental environmental information]

- · Certified regulations: International Energy Star Program, EU RoHS.
- •This product and its main components such as photoreceptor, toner, carrier are produced in our factories certified to ISO14001 management system standard.

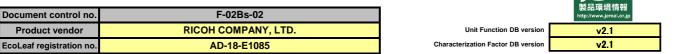
PCR review was conducted by: PCR Deliberation Committee, January 01, 2008, Name of representative: Youji Uchiyama, University of Tsukuba, Graduate School

Independent verification of the declaration and data, according to ISO14025 □internal ■external Third party verifier \* : Kazuo Naito, system certification auditor

Programme operator: Japan Environmental Management Association for Industry, ecoleaf@jemai.or.jp

<sup>\*</sup> In the case of an business entity certified as an Ecoleaf-data-collection system, the names of certification auditors are written.

#### Product Environmental Information Data Sheet (PEIDS)



| PCR name | EP and IJ print | er                  | Product type |              | MP C501SP [ | Part #418149 ]    |     |
|----------|-----------------|---------------------|--------------|--------------|-------------|-------------------|-----|
| PCR code | AD-04           | Product weight (kg) | 101          | Package (kg) | 17          | Weight total (kg) | 118 |

|                                  |  |                       |                    | Life Cycle Stage                            | 11.2 | Prod         | uction   | D: 47 4      |          | D: 1/2      | Recycle   |
|----------------------------------|--|-----------------------|--------------------|---|------|--------------|----------|--------------|----------|-------------|-----------|
| In/Out items  Energy Consumption |  |                       |                    |   | Unit | Raw material | Product  | Distribution | Use      | Disposition | Effect    |
|                                  |  | En                    | oray Ca            | ancumption                                  | MJ   | 7.71E+03     | 1.48E+03 | 1.27E+03     | 3.02E+04 | 2.95E+01    | -8.02E+03 |
|                                  |  |                       | ergy Co            | orisumption                                 | Mcal | 1.84E+03     | 3.53E+02 | 3.03E+02     | 7.22E+03 | 7.05E+00    | -1.92E+03 |
|                                  |  |                       | SS                 | Coal  | kg   | 6.49E+01     | 9.35E+00 | 2.97E-03     | 1.09E+02 | 1.34E-01    | -7.67E+01 |
|                                  |  |                       | Energy             | Crude oil (for fuel)                        | kg   | 6.72E+01     | 1.08E+01 | 2.77E+01     | 2.97E+02 | 3.95E-01    | -3.93E+01 |
|                                  |  |                       | sor                | LNG   | kg   | 1.23E+01     | 6.85E+00 | 4.28E-01     | 9.81E+01 | 7.16E-02    | -3.63E+00 |
|                                  |  |                       | <u>Б</u>           | Uranium content of an ore                   | kg   | 1.07E-03     | 6.32E-04 | 2.01E-07     | 4.74E-03 | 9.09E-06    | 7.39E-05  |
|                                  | <u> </u>                                     |                       |                    | Crude oil (for material)                    | kg   | 3.49E+01     | 0        | 0            | 1.00E+02 | 0           | -8.18E+01 |
|                                  | mpact by Resource Consumption                | S                     |                    | Iron content of an ore                      | kg   | 5.18E+01     | 0        | 0            | 3.30E+01 | 0           | -8.64E+01 |
|                                  | ΕÉ   | Exhaustible resources |                    | Cu content of an ore                        | kg   | 1.35E+00     | 0        | 0            | 2.69E-01 | 0           | -1.78E+00 |
|                                  | ns   | ١ă                    |                    | Al content of an ore                        | kg   | 1.39E+00     | 0        | 0            | 2.12E+00 | 0           | -3.32E+00 |
|                                  | l ë  | SSC                   | Ś                  | Ni content of an ore                        | kg   | 5.59E-01     | 0        | 0            | 1.50E+00 | 0           | -1.76E-03 |
|                                  | 0  | ) re                  | ပ္ပ                | Cr content of an ore                        | kg   | 7.74E-01     | 0        | 0            | 2.04E+00 | 0           | -3.21E-02 |
|                                  | 2  | ple                   | Ę                  | Mn content of an ore                        | kg   | 3.65E-01     | 0        | 0            | 4.17E-01 | 0           | -7.50E-02 |
|                                  | no   | sti                   | resources          | Pb content of an ore                        | kg   | 1.13E-01     | 0        | 0            | 2.32E-02 | 0           | -1.45E-01 |
|                                  | es   | ac                    | =                  | Sn content of an ore                        | kg   | 2.51E-03     | 0        | 0            | 2.83E-04 | 0           | 0         |
|                                  | 2  | ×                     | Mineral            | Zn content of an ore                        | kg   | 1.14E+00     | 0        | 0            | 2.38E-01 | 0           | -1.42E+00 |
|                                  | þ  | ш                     | <u>.</u>           | Au content of an ore                        | kg   | 3.00E-05     | 0        | 0            | 2.29E-05 | 0           | 0         |
|                                  | ರ  |                       | Σ                  | Ag content of an ore                        | kg   | 4.30E-04     | 0        | 0            | 3.22E-06 | 0           | 0         |
| S                                | l ed   |                       |                    | Silica Sand                                 | kg   | 3.34E+00     | 0        | 0            | 4.00E+00 | 0           | -3.16E+00 |
| /se                              | 트  |                       |                    | Halite                                      | kg   | 3.13E+01     | 5.46E-03 | 0            | 3.35E+01 | 3.69E-03    | -9.50E-01 |
| aj.                              | Inventory analyses                           |                       |                    | Limestone                                   | kg   | 1.16E+01     | 0        | 0            | 8.85E+00 | 2.92E-01    | -1.53E+01 |
| a                                |  |                       |                    | Natural soda ash                            | kg   | 2.70E-01     | 0        | 0            | 4.08E-01 | 0           | -2.41E-01 |
|                                  |  | Renewable Wood        |                    | Wood  | kg   | 2.40E+01     | 0        | 0            | 1.50E+02 | 0           | 0         |
| 윧                                |  | reso                  | ources             | Water                                       | kg   | 2.35E+04     | 7.97E+03 | 2.24E+00     | 1.19E+05 | 1.15E+02    | -6.33E+03 |
| Ş.                               |  |                       |                    | CO <sub>2</sub>                             | kg   | 4.07E+02     | 7.90E+01 | 9.01E+01     | 1.47E+03 | 2.16E+01    | -3.69E+02 |
| =                                |  |                       | 0                  | SO,   | kg   | 2.79E-01     | 5.55E-02 | 5.60E-02     | 8.73E-01 | 1.17E-02    | -2.37E-01 |
|                                  | l e  |                       | 919                | NO <sub>v</sub>                             | kg   | 4.94E-01     | 5.33E-02 | 4.46E-01     | 2.40E+00 | 3.16E-02    | -3.67E-01 |
|                                  | 0  |                       | 효                  | N <sub>2</sub> Ô                            | kg   | 3.62E-02     | 8.26E-03 | 1.48E-02     | 2.74E-01 | 3.98E-05    | -4.60E-02 |
|                                  | <u>o</u>                                     |                       | to Atmosphere      | CH₄   | kg   | 2.82E-03     | 1.69E-03 | 5.37E-07     | 1.26E-02 | 2.43E-05    | 2.61E-04  |
|                                  | arc arc                                      |                       | ₽                  | CO  | kg   | 6.36E-02     | 1.18E-02 | 1.21E-01     | 3.80E-01 | 7.05E-03    | 1.04E-02  |
|                                  | ۱ څ <sub>۲</sub>                             |                       | ⋖                  | NMVOC                                       | kg   | 5.52E-03     | 3.31E-03 | 1.05E-06     | 2.47E-02 | 4.76E-05    | 5.10E-04  |
|                                  | )is(   |                       | \$                 | C,H,  | kg   | 1.79E-02     | 1.37E-03 | 1.32E-02     | 8.70E-02 | 2.22E-04    | -1.91E-02 |
|                                  | 탈  |                       |                    | Dust  | kg   | 6.09E-02     | 2.40E-03 | 4.24E-02     | 1.98E-01 | 1.76E-03    | -6.80E-02 |
|                                  | <u>.</u> ë <u>è</u>                          |                       |                    | BOD   | kg   | -            | -        | -            | -        | -           | -         |
|                                  | mission/Disc<br>environment                  | E E                   | i te               | COD   | kg   | -            | -        | -            | -        | -           | -         |
|                                  | Emission/Discharge to the environment        | to Water<br>system    | to Water<br>domain | N total                                     | kg   | -            | -        | -            | -        | -           | -         |
|                                  |  | o v                   | o<br>o             | P total                                     | kg   | -            | -        | -            | -        | -           | -         |
|                                  | mpact by                                     | Ξ                     |                    | SS  | kg   | -            | -        | -            | -        | -           | -         |
|                                  | ac   |                       |                    | Unspecified Solid Waste                     | kg   | 3.91E+00     | 2.87E-02 | 0            | 3.13E+01 | 8.23E+00    | -9.40E-01 |
|                                  | Ιď   | to                    | Soil               | Slag  | kg   | 1.96E+01     | 0        | 0            | 1.17E+01 | 0           | -2.77E+01 |
|                                  | =  | SV:                   | stem               | Sludge                                      | kg   | 2.97E+00     | 0        | 0            | 4.54E+00 | 0           | -7.13E+00 |
|                                  |  | 1                     |                    | Low level radio-active waste                | kg   | 7.47E-04     | 4.42E-04 | 1.40E-07     | 3.31E-03 | 6.35E-06    | 5.18E-05  |
| ment                             | source                                       | Exha                  | ustible            | oquivaionit)                                | kg   | 1.32E+02     | 3.02E+01 | 2.82E+01     | 5.25E+02 | 6.42E-01    | -9.23E+01 |
| sessr                            | <b>∠</b>   § ⊑                               |                       | ources             | Mineral resources (Iron ore equivalent)     | kg   | 1.06E+03     | 0        | 0            | 1.39E+03 | 0           | -6.77E+02 |
| act as                           | by Emission /<br>Discharge to<br>environment | to Atm                | nosphere           | Global Warming (CO <sub>2</sub> equivalent) | kg   | 4.17E+02     | 8.12E+01 | 9.41E+01     | 1.55E+03 | 2.16E+01    | -3.81E+02 |
| Impact                           | by Em<br>Disch<br>enviro                     | to rui                | . ээрного          | Acidification (SO <sub>2</sub> equivalent)  | kg   | 6.25E-01     | 9.28E-02 | 3.68E-01     | 2.55E+00 | 3.38E-02    | -4.95E-01 |

[Notes for readers: EcoLeaf common rules]

#### I. Stage related

- A. "Production" stage is intended for two sub-stages listed below.
- (1) "Raw material" production: consists of mining, transportation and raw material production.
- $\begin{tabular}{ll} \begin{tabular}{ll} \beg$
- B. "Distribution" stage is intended for transportation of produced product. Transportation of consumables and maintenance goods (e.g. replacement parts) for use of the product are included into "Use" stage.
- C. Use stage is intended for use of the product (active mode, standby mode, etc.) and production, transportation to disposal/recycle of consumables/maintenance goods (e.g. replacement parts).
- See stage is intended to use of the product (active immed, status) mixed, etc., and production, transportation to usposar/legy-or usonamental immacts by product disposition/Recycle? stage is intended for environmental immacts by product disposition/recycle, and deduction by recycling (e.g. immact reduction of raw material production).
- E. 'Recycle Effect' illustrates an indirect environmental influences to other products/services by use of reclaimed materials/parts, and/or by supply of used products to other businesses for material reclaim/parts reuse.

  Case 1: Use of reclaimed materials/parts: Sum of increase of environmental impact by collection activities of used materials/parts, and decrease by volume reduction of used materials/parts.

  Case 2: Supply of used products to other businesses for material reclaim/parts reuse: Sum of increase of environmental impact by materials/parts reclaiming process, and decrease by volume reduction of new materials/parts production.

#### II. Inventory analyses

- A. Data of mineral ore on "Exhaustible resources" are presented in weight of pure ingredients (e.g. iron, aluminum) in the ore.
- B. Data on energy resources are presented based on origin in calorific value. e.g. Data on uranium ore presents weight of uranium concentrate, which is available for use as an atomic fuel.
- $\textbf{C. Data of discharge to water system are in actual figure } \ (\textbf{not calculated using unit function in inventory analyses}) \, . \\$

#### III Impact analyses

impact analyses

Result of the "Impact analyses" is found in converting results of inventory analyses into total amount of a reference material (e.g. CO<sub>2</sub> in case of "Global Warming").

- A. Impact "by resource consumption" represents magnitude of impacts to resource depletion.
- B. Impact by resource consumption represents magnitude of impacts to resource depiction.

  B. Impact "by emission/discharge to environment" represents magnitude of impacts to Atmosphere, Water and Soil system.

#### IV Data entry format

- A. Exponential notation, after the decimal point to two, should be used.
- B. Indicate "0" instead exponential notation, if the result of calculation or estimation is considered as "zero" or negligible in comparison to related results.
- C. Indicate " " if calculation nor estimation can not be done, in order to differentiate to indicate "zero".
  - (BGD for material production are for production from mineral ore. Those data do not include reclaiming processes like recovery from scrap.)

#### [Notes for readers: Target product specific]

This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.

#### Product data sheet

(Input data and parameters for LCA)

| Document control no.     | F-03s-02            |
|--------------------------|---------------------|
| Product vendor           | RICOH COMPANY, LTD. |
| EcoLEaf registration no. | AD-18-E1085         |



| PCR name              | EP and IJ printer ( PCR-ID : AD-04 ) | Product type        | MP C501SP [ Part #418149 ] |              |    |                   |     |
|-----------------------|--------------------------------------|---------------------|----------------------------|--------------|----|-------------------|-----|
| LCA/LCIA in units of: | 1 product                            | Product weight (kg) | 101                        | Package (kg) | 17 | Weight total (kg) | 118 |

1. Product information (per unit): parts etc. by material and by process/assembly method

|         | Bre             | eakdown of pi | rimary materials         |             | Math breakdown of parts, which          | h need to apply | Processing / Assembly Base U | nits (Parts B, C) |
|---------|-----------------|---------------|--------------------------|-------------|---|-----------------|------------------------------|-------------------|
|         | Material name   | Weight (kg)   | Material name            | Weight (kg) | Process name                            | Weight (kg)     | Process name                 | Weight (kg)       |
|         | Stainless steel | 3.53E+00      | Lubricant                | 1.14E-02    | Press molding:<br>Iron (kg)             | 5.13E+01        | Parts assembly (kg)          | 9.96E+01          |
|         | Aluminum        | 1.31E+00      | Thermoplastic resin      | 3.96E+01    | Press molding:<br>Nonferrous metal (kg) | 5.16E+00        |                              |                   |
| ct      | Glass           | 2.78E+00      | Thermosetting resin      | 1.53E+00    | Injection molding (kg)                  | 4.01E+01        |                              |                   |
| Product | Rubber          | 2.95E-01      | Electronic circuit board | 1.48E+00    | Glass molding (kg)                      | 3.08E+00        |                              |                   |
|         | Other metals    | 3.85E+00      |                          |             |   |                 |                              |                   |
|         | Paper           | 7.88E+00      |                          |             |   |                 |                              |                   |
|         | Ordinary steel  | 4.88E+01      |                          |             |   |                 |                              |                   |
|         | Wood            | 7.00E+00      |                          |             |   |                 |                              |                   |
|         | Subtotal        | 7.55E+01      | Subtotal                 | 4.26E+01    |   |                 |                              |                   |
|         |                 | Total         |                          | 1.18E+02    | Subtotal                                | 9.96E+01        | Subtotal                     | 9.96E+01          |

Note

2. Production site information (per unit): Consumption and discharge/emission for production/processing/assembly within the site.

SOx and NOx should be indicated in  $SO_2$ ,  $NO_2$  equivalent.

| 듬                      | Classification | Energy                 | Energy                                       | Material         | Material                 |  |  |
|------------------------|----------------|------------------------|--|------------------|--------------------------|--|--|
| Consumption            | Distribution   | Electricity (kWh)      | Furnace urban<br>gas (13A) (m <sup>3</sup> ) | Clean water (kg) | Industrial water<br>(kg) |  |  |
| Si O                   | Quantity       | 3.59E+01               | 2.77E+00                                     | 1.77E+02         | 6.85E+02                 |  |  |
| ၁                      | Note           |                        |  |                  |                          |  |  |
| > a>                   | Classification | Water system           |  |                  |                          |  |  |
| Emission/<br>Discharge | Distribution   | Sewage processing (kg) |  |                  |                          |  |  |
| E E                    | Quantity       | 9.42E+02               |  |                  |                          |  |  |
|                        | Note           |                        |  |                  |                          |  |  |

Note

3. Distribution stage information (per unit): means, distance, loading ratio, consumptions and emissions/discharges.

|            | Means of       | Diesel truck:  | Diesel truck:  | Diesel truck:        | Diesel truck:  | Freight by ship | Freight by ship | Freight by ship      | Freight by ship |
|------------|----------------|----------------|----------------|----------------------|----------------|-----------------|-----------------|----------------------|-----------------|
| <u>.</u> 0 | transportation | 20 ton (kg·km) | 20 ton (kg·km) | 20 ton (kg·km)       | 20 ton (kg·km) | (kg·km)         | (kg·km)         | (kg·km)              | (kg·km)         |
| stribut    | Conditions     | Mass(kg)       | Distance (km)  | Loading<br>Ratio(%w) | Load(kg·km)    | Mass(kg)        | Distance (km)   | Loading<br>Ratio(%w) | Load(kg·km)     |
| ä          | Quantity       | 1.18E+02       | 1.28E+03       | 4.93E+01             | 3.05E+05       | 1.18E+02        | 1.16E+04        | 1.00E+02             | 1.37E+06        |
|            | Note           |                |                |                      |                |                 |                 |                      |                 |

Note

4. Use stage (per unit): use condition (mode, term) including active mode, standby mode and maintenance.

4.1 Product and accessories subject to this analysis

|         | aut and a      | receseee eanoje                    | Ct to tills allalysi           | ·  |  |  |                                 |                                 |                                |
|---------|----------------|------------------------------------|--------------------------------|--|--|--|---------------------------------|---------------------------------|--------------------------------|
|         | Classification | Consumption                        | Consumption                    | Consumption                              | Consumption                                | Consumption  | Consumption                     | Consumption                     | Consumption                    |
|         | Distribution   | Stainless steel plate (kg)         | Aluminum plate (kg)            | Glass (kg)                               | Styrene-<br>butadiene rubber<br>(SBR) (kg) | Copper plate (kg)                                  | Zinc (kg)                       | Gold (kg)                       | Silver (kg)                    |
|         | Quantity       | 9.49E+00                           | 2.00E+00                       | 4.82E+00                                 | 5.13E-01                                   | 8.35E-01   | 1.93E-02                        | 2.29E-05                        | 3.22E-06                       |
|         | Note           |                                    |                                |  |  |  |                                 |                                 |                                |
|         | Classification | Consumption                        | Consumption                    | Consumption                              | Consumption                                | Consumption  | Consumption                     | Condition                       | Consumption                    |
|         | Distribution   | Tin (kg)                           | Corrugated cardboard (kg)      | Lubricant (kg)                           | ABS (kg)                                   | PA66<br>(Polyamide 66)<br>(kg)                     | PBT (kg)                        | Diesel truck:<br>20 ton (kg·km) | Polycarbonate (kg)             |
| Product | Quantity       | 1.86E-04                           | 7.07E+01                       | 4.69E-03                                 | 2.70E-01                                   | 4.34E-02   | 2.27E-02                        | 3.01E+05                        | 2.64E-01                       |
|         | Note           |                                    |                                |  |  |  |                                 |                                 |                                |
|         | Classification | Consumption                        | Consumption                    | Consumption                              | Consumption                                | Condition  | Consumption                     | Consumption                     | Consumption                    |
| ā       | Distribution   | Polycarbonate-<br>ABS (70/30) (kg) | High density polyethylene (kg) | Low density polyethylene (kg)            | PET (kg)                                   | Freight by ship (kg·km)                            | POM (polyacetal) (kg)           | Polypropylene<br>(kg)           | Polystyrene (kg)               |
|         | Quantity       | 3.09E+01                           | 1.78E-01                       | 7.51E+00                                 | 7.95E+01                                   | 1.69E+06   | 8.26E-01                        | 1.57E+00                        | 9.74E+00                       |
|         | Note           |                                    |                                |  |  |  |                                 |                                 |                                |
|         | Classification | Consumption                        | Consumption                    | Consumption                              | Condition                                  | Consumption  | Consumption                     | Consumption                     | Consumption                    |
|         | Distribution   | PVC (kg)                           | Epoxy resin<br>(EP) (kg)       | Expandable hard polyurethane (Hard) (kg) | Diesel truck:<br>20 ton (kg·km)            | Expandable soft polyurethane (for automobile) (kg) | Unsaturated polyester (UP) (kg) | Assembled circuit board (kg)    | Electroplated steel Plate (kg) |
|         | Quantity       | 6.91E-03                           | 4.77E-01                       | 7.08E-02                                 | 4.58E+03                                   | 2.57E-01   | 3.87E-01                        | 1.22E-01                        | 6.99E+00                       |
|         | Note           |                                    |                                |  |  |  |                                 |                                 |                                |

|      | Classification        | Consumption                  | Condition                   | Consumption                 | Consumption                                | Consumption            | Consumption             | Condition                       | Consumption                    |
|------|-----------------------|------------------------------|-----------------------------|-----------------------------|--|------------------------|-------------------------|---------------------------------|--------------------------------|
|      | Distribution          | Cold-Rolled steel plate (kg) | Freight by ship (kg·km)     | Press molding:<br>Iron (kg) | Press molding:<br>Nonferrous metal<br>(kg) | Injection molding (kg) | Glass molding (kg)      | Diesel truck:<br>20 ton (kg·km) | Parts assembly (kg)            |
| nct  | Quantity              | 2.19E+01                     | 2.58E+04                    | 3.62E+01                    | 2.86E+00                                   | 4.65E+01               | 9.56E-01                | 1.78E+05                        | 8.65E+01                       |
| onpo | Note                  |                              |                             |                             |  |                        |                         |                                 |                                |
| Pro  | Classification        | Energy                       | Energy                      | Material                    | Material                                   | Water system           | Condition               | Consumption                     | Consumption                    |
|      |                       |                              | Furnace urban               |                             | Industrial water                           | Sewage                 | Erojaht by ohin         |                                 |                                |
|      | Distribution          | Electricity (kWh)            | gas (13A) (m <sup>3</sup> ) | Clean water (kg)            | (kg)                                       | processing (kg)        | Freight by ship (kg·km) | Electricity (kWh)               | Gasoline as fuel (kg)          |
|      | Distribution Quantity | Electricity (kWh) 2.73E+02   |                             | Clean water (kg) 1.12E+02   |  | •                      |                         | Electricity (kWh) 5.37E+02      | Gasoline as fuel (kg) 3.67E+00 |

Note

#### 4.2 Disposition/Recycle information on consumables and replacement parts

|             | Classification | Process                                  | Process                                      | Process                             | Process                                     | Process   | Process  | Process  | Process                   |
|-------------|----------------|--|--|-------------------------------------|---|---|--|--|---------------------------|
|             | Distribution   | Landfill:<br>Industrial waste<br>(kg)    | Incineration to<br>landfill<br>(as ash) (kg) | Diesel truck:<br>4 ton (kg·km)      | Shredding (kg)                              | Sorting:<br>Iron<br>(by magnetic<br>force) (kg) | Sorting:<br>Nonferrous metal<br>(by eddy current<br>with wind force)<br>(kg) | Sorting:<br>Plastics<br>(by relative<br>density difference<br>in water) (kg) | Recycle:<br>to Glass (kg) |
|             | Quantity       | 1.47E+01                                 | 7.07E+01                                     | 6.84E+03                            | 9.64E+01                                    | 9.59E+01  | 6.12E+01   | 5.85E+01   | 4.43E-01                  |
| <b></b>     | Note           |  |  |                                     |   |   |  |  |                           |
| ples        | Classification | Process                                  | Process                                      | Process                             | Process                                     | Deduction                                       | Deduction  | Deduction  | Deduction                 |
| Consumables | Distribution   | Recycle:<br>to cold-rolled steel<br>(kg) | Recycle:<br>to Aluminum plate<br>(kg)        | Recycle:<br>to copper plate<br>(kg) | Recycle:<br>to Thermoplastic<br>pellet (kg) | Glass (kg)                                      | Cold-Rolled steel plate (kg)   | Aluminum plate (kg)  | Copper plate (kg)         |
|             | Quantity       | 3.47E+01                                 | 1.92E+00                                     | 9.34E-01                            | 4.37E+01                                    | 4.34E-01  | 3.47E+01   | 1.92E+00   | 9.34E-01                  |
|             | Note           |  |  |                                     |   |   |  |  |                           |
|             | Classification | Deduction                                | Process                                      |                                     |   |   |  |  |                           |
|             | Distribution   | Polystyrene (kg)                         | Diesel truck:<br>10 ton (kg·km)              |                                     |   |   |  |  |                           |
|             | Quantity       | 4.37E+01                                 | 7.71E+04                                     |                                     |   |   |  |  |                           |
| N           | Note           |  |  | •                                   |   |   |  |  |                           |

Note

#### 5. Disposition/Recycle stage information (per product): process method and scenarios

|          | Classification | Process  | Process  | Process                                   | Process                                      | Process                               | Process                             | Deduction                                   | Process   |
|----------|----------------|--|--|---|--|---------------------------------------|-------------------------------------|---|---|
|          | Distribution   | Landfill:<br>Industrial waste<br>(kg)  | Shredding (kg)   | Incineration:<br>Industrial waste<br>(kg) | Incineration to<br>landfill<br>(as ash) (kg) | Diesel truck:<br>10 ton (kg·km)       | Diesel truck:<br>4 ton (kg·km)      | High density polyethylene (kg)              | Sorting:<br>Iron<br>(by magnetic<br>force) (kg) |
|          | Quantity       | 6.17E+00   | 1.11E+02   | 1.90E+00                                  | 1.33E+01                                     | 8.87E+04                              | 6.11E+02                            | 9.87E-01                                    | 9.85E+01  |
|          | Note           |  |  |   |  |                                       |                                     |   |   |
|          | Classification | Process  | Process  | Process                                   | Process                                      | Process                               | Process                             | Process                                     | Deduction                                       |
| Scenario | Distribution   | Sorting:<br>Nonferrous metal<br>(by eddy current<br>with wind force)<br>(kg) | Sorting:<br>Plastics<br>(by relative<br>density difference<br>in water) (kg) | Recycle:<br>to Glass (kg)                 | Recycle:<br>to cold-rolled steel<br>(kg)     | Recycle:<br>to Aluminum plate<br>(kg) | Recycle:<br>to copper plate<br>(kg) | Recycle:<br>to Thermoplastic<br>pellet (kg) | Glass (kg)                                      |
|          | Quantity       | 4.98E+01   | 4.50E+01   | 2.48E+00                                  | 4.87E+01                                     | 1.22E+00                              | 4.97E+00                            | 3.85E+01                                    | 2.44E+00  |
|          | Note           |  |  |   |  |                                       |                                     |   |   |
|          | Classification | Deduction  | Deduction  | Deduction                                 | Deduction                                    |                                       |                                     |   |   |
|          | Distribution   | Cold-Rolled steel plate (kg)   | Aluminum plate (kg)  | Copper plate (kg)                         | Polystyrene (kg)                             |                                       |                                     |   |   |
|          | Quantity       | 4.87E+01   | 1.22E+00   | 4.97E+00                                  | 3.75E+01                                     |                                       |                                     |   |   |
|          | Note           |  |  |   |  |                                       |                                     |   |   |

Note

#### 6. Others

This declaration was produced using Product Category Rule intended for a product model sold in the Japanese market and using the qualitative and quantitative data collected in Japan.