


THE ECO DECLARATION



Product environmental attributes – THE ECO DECLARATION

| | | |
|------------------------|--|---|
| Brand * | RICOH |  |
| Company name * | RICOH Company Ltd. | |
| Contact information * | | |
| Internet site * | www.ricoh.com | |
| Additional information | | |

| | |
|--|--|
| The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration. | |
| Type of product * | Digital Copier |
| Commercial name * | MP 4000 |
| Model number * | Aficio MP 4000 |
| Issue date * | 13 January 2010 |
| Intended market * | <input type="checkbox"/> Global <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Japan <input type="checkbox"/> U.S. <input type="checkbox"/> Other |
| Additional information | |

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

The declaration may be published only when all rows and/or fields marked with a * are filled-in (n.a. for not applicable).

| Quality Control | Requirement met | Yes | No |
|-----------------|---|-------------------------------------|--------------------------|
| Item | Additional information regarding each item may be found under P14. | | |
| QC1 * | The company enforces an internal quality control scheme to ensure the correctness of this eco declaration | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| QC2 * | The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org). | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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| Product environmental attributes - Legal requirements | | Requirement met | | |
|--|--|-------------------------------------|--------------------------|-------------------------------------|
| Item | *=mandatory to fill in. Additional information regarding each item may be found under P14. | Yes | No | n.a. |
| P1 Hazardous substances and preparations | | | | |
| P1.1* | Products do not contain lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) as specified in <i>EU 2002/95/EC and its amendments</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.2* | Products do not contain Asbestos (<i>EU 76/769/EEC, amendment 1999/77/EC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.3* | Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (<i>EU : Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.4* | Products do not contain polychlorinated biphenyl (PCB), polychlorinated terphenyl (PCT), (<i>EU 76/769/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.5* | Products do not contain short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP as specified in <i>Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.6* | Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (<i>EU 76/769/EEC</i>) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P1.7* | Textile and leather parts with direct skin contact do not contain Azo colourants that split aromatic amines as specified in <i>EU 76/769/EEC, amendment 2003/3/EC</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P1.8* | Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (<i>EU 76/769/EEC</i>) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P1.9* | Parts with direct and prolonged skin contact do not release nickel in concentrations higher than specified in <i>76/769/EEC, amendment 94/27/EEC</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2 Batteries | | | | |
| P2.1* | If hazardous batteries (as defined in <i>91/157/EEC</i>) are used in the product they are easily removable and labelled with the disposal and the substance logo (as defined in <i>91/157/EEC, 93/86/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2.2* | If batteries are used in the product they do not contain mercury in concentrations higher than specified in <i>91/157/EEC</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2.3* | If batteries are permanently installed in the product, information on the environmentally hazardous substances and safe removal method is listed in the user manual (<i>91/157/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3 Electrical safety, EMC and connection to the telephone network | | | | |
| P3.1* | The product meets the Low Voltage Directive (LVD) regarding electrical safety (<i>73/23/EEC & 93/68/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3.2* | The product meets the EMC Directive regarding electromagnetic compatibility (<i>89/336/EEC / 2004/108/EEC after June, 20th 2007</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3.3* | If product is intended for connection to a public telecom network or contains a radio transmitter, it meets the EU R&TTE Directive (<i>1999/5/EC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3.4* | The product is CE-marked and a Declaration of Conformity is available (<i>93/68/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P4 Consumable materials | | | | |
| P4.1* | If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium in concentrations higher than specified in (<i>76/769/EEC and 91/338/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P4.2* | If ink/toner is used in the product, it does not contain cadmium in concentrations higher than specified in (<i>76/769/EEC and 91/338/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P4.3* | If the ink/toner formulation/preparation is classified as hazardous according to EU Directive 1999/45/EC, and as amended, the product/packaging is labelled and a Material Safety Data Sheet (MSDS) in accordance with (<i>99/45/EC & 2001/58/EC</i>) is available. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P5 Product packaging | | | | |
| P5.1* | The sum of the concentration levels of lead, cadmium, mercury, and hexavalent chromium present in packaging or packaging components does not exceed 0,01% by weight (<i>94/62/EC</i>). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P5.2* | Plastic packaging material is marked according to ISO 11469 referring ISO 1043. (<i>97/129/EEC</i>) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P5.3* | The product packaging material is free from CFC/HCFC. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P6 Treatment information | | | | |
| P6.1* | Information for recyclers/treatment facilities (e.g. as requested by 2002/96/EC) is available. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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| Product environmental attributes - Market requirements - Environmental conscious design | | | | | | | |
|---|---|-----------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Requirement met | | | | | | | |
| Item | * =mandatory to fill in. Additional information regarding each item may be found under P14. | | | | Yes | No | n.a. |
| P7 Design | | | | | | | |
| Disassembly, recycling | | | | | | | |
| P7.1* | Parts that have to be treated separately are easily separable | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.2* | Plastic materials in covers/housing have no surface coating. | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.3* | Plastic parts >100g consist of one material or of easily separable materials. | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.4* | Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043. | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.5 | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.6* | Labels are easily separable. (This requirement does not apply to safety/regulatory labels). | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Product lifetime | | | | | | | |
| P7.7* | Upgrading can be done e.g. with processor, memory, cards or drives | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.8* | Upgrading can be done using commonly available tools | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.9. | Spare parts are available after end of production for: 7 years | | | | | | <input type="checkbox"/> |
| P7.10 | Service is available after end of production for: 7 years | | | | | | <input type="checkbox"/> |
| Material and substance requirements | | | | | | | |
| P7.11* | Product cover/housing material type: Material type: PC + ABS Material type: PC + PS Material type: | | | | | | |
| P7.12* | Electrical cable insulation material of power cables are halogen free (including PVC) | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.13* | Electrical cable insulation material of signal cables are halogen free (including PVC) | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.14 | All cover/housing plastic parts >25g are halogen free | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.15 | All printed circuit boards (without components) >25g are halogen free | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.16 | Chemical specifications of flame retardants in cover / housing plastic parts >25g according ISO 1043-4: Cover/ housing: FR (40) | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.17 | Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: Printed circuit boards: FR (17) | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.18 | Weight of recycled material in plastic parts is <10% | | | | | | |
| P7.19 | Plastic parts >25g are free from flame retardant substances/preparations above 0.1% classified as R45/46, R50/51/53 and R60/61 (67/548/EEC) | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.20 | Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P8 Batteries | | | | | | | |
| P8.1* | Product does not contain batteries defined as hazardous according to 91/157/EEC | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P8.2* | Battery chemical composition: Lithium-ion battery | | | | | | <input checked="" type="checkbox"/> |
| P8.3 | Batteries meet the requirements of the following voluntary program/s: European eco-label (EU Flower) criteria (2001/687/EC & 2001/686/EC) | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P9 Energy consumption | | | | | | | |
| 9.1 | For the product the following power levels or energy consumptions have been measured: | | | | | | |
| Mode | Power level at *220-240 Volts | Time (s) to <mode> | Mode description | Reference/ Standard | n.a. | | |
| On-max | 1.5 kW | | * Maximum Energy Consumption | * | <input type="checkbox"/> | | |
| On-normal | * 777.1 W | to | * Operating Mode | * | <input type="checkbox"/> | | |
| On-idle | 143 W | to | * Ready Mode | * | <input type="checkbox"/> | | |
| Save 1 | * W | to | * | * | <input type="checkbox"/> | | |
| Save 2 | W | to | * | * | <input type="checkbox"/> | | |
| Off 1 | * 5.7 W | 60 to off mode | * | * | <input type="checkbox"/> | | |
| Off 2 | W | to | * | * | <input type="checkbox"/> | | |
| No load | * W | | External power supplies/charger plugged in but disconnected from the product | * | <input type="checkbox"/> | | |
| TEC | * 3.494 kWh/y Typical Energy Consumption per year | | | | * | <input type="checkbox"/> | |
| P9.2* | Information about the energy save function is provided with the product. | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P9.3 | The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® MOU GEEA Others specify: | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

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Product environmental attributes - Market requirements (continued) Requirement met

Item * =mandatory to fill in. Additional information regarding each item may be found under P14. Yes No n.a.

P10 Emissions

Noise emission – Declared according to ISO 9296

| P10.1 | Mode | Mode description | Declared A-weighted sound power level L_{WAd} (B) | Declared A-weighted sound pressure level L_{pAm} (dB) | | |
|---|------------|-------------------------|---|--|--|--------------------------|
| | | | | Operator position <input checked="" type="checkbox"/> | Bystander positions <input type="checkbox"/> | |
| | | | | Desktop <input type="checkbox"/> or Deskside <input type="checkbox"/> | (only if product is not operator attended) | |
| | Idle | * Stand-by | * 3.9 | | 22 | <input type="checkbox"/> |
| | Operation | * Operating Mode | * 6.9 | | 51 | <input type="checkbox"/> |
| | Other mode | | | | | |
| Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74 with L_{pAm} measurement distance m) | | | | | | |

P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:

| | | | |
|--------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| TCO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Blue Angel | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| European eco.label (EU Flower) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Nordic Swan | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Chemical emissions from printing products

P10.3* Test performed according to ECMA-328 standard , other specify: **RAL UZ**

The test covers: Dust Ozone Styrene Benzene TVOC

P10.4 The product meets the chemical emission requirements of the following voluntary program/s:

| | | | |
|-------------|-------------------------------------|--------------------------|-------------------------------------|
| TCO | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Blue Angel | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Nordic Swan | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Electromagnetic emissions

P10.5 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s:

P11 Consumable materials for printing products

P11.1* A Material Safety Data Sheet (MSDS) is available for the ink/toner preparation, even if not legally required (see P4.3).

P11.2* Paper containing recycled fibres that meets the requirements of EN12281 can be used.

P11.3* 2-sided (duplex) printing/copying is an integrated product function.

P12 Ergonomics for computing products

P12.1* The computer system meets the ergonomic requirements of EN 29241-3, -7, -8 for CRT displays and EN-ISO13406-2 for flat panel displays.

P12.2* The product keyboard meets the requirements of ISO 9995 and EN 29241-4.

P12.3* The computer input device meets the requirements of ISO 9241-9.

P13 Packaging and documentation

P13.1* Product packaging material type(s): **Corrugated Paper** weight (kg): **10.55**
Product packaging material type(s): **Plastic** weight (kg): **0.979**
Product packaging material type(s): weight (kg):

P13.2* Product plastic packaging is halogen free (including PVC)

P13.3* User and product documentation do not contain chlorine bleached paper

P13.4* User and product documentation contain recycled paper

P14 Additional information

| | | | |
|--|--|--|--|
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| | | | |
| | | | |

NOTE

Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.