

Product environmental attributes – THE ECO DECLARATION


The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).
Additional information regarding each item may be found under P14.

| | | |
|------------------------|---|---|
| Brand * | <i>RICOH</i> |  |
| Company name * | <i>RICOH Company Ltd.</i> | |
| Contact information * | <i>Ricoh Europe Plc</i> <i>20 Triton Street, London NW1 3BF, United Kingdom</i> <i>emo@ricoh-europe.com</i> | |
| Internet site * | <i>www.ricoh.com</i> | |
| 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 * | <i>Printer</i> |
| Commercial name * | <i>SP C440DN</i> |
| Model number * | <i>SP C440DN</i> |
| Issue date * | <i>14 May 2015</i> |
| Intended market * | <input type="checkbox"/> Global <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <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.

| Quality Control | Item | Requirement met | |
|-----------------|---|-------------------------------------|--------------------------|
| | | Yes | No |
| 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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| Model number * | SP C440DN | Logo |  |
| Issue date * | 14 May 2015 | | |

| Product environmental attributes - Legal requirements | | Requirement met | | |
|--|---|-------------------------------------|--------------------------|-------------------------------------|
| Item | | Yes | No | n.a. |
| P1 Hazardous substances and preparations | | | | |
| P1.1* | Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and ^{Note B¹}) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.2* | Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. | <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 (see legal reference). Comment: Legal reference has no maximum concentration values. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.4* | Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.5* | Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference). | <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) (see legal reference). Comment: Legal reference has no maximum concentration values. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P1.7* | Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1) | <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 (see legal reference). Comment: Legal reference has no maximum concentration values. | <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 above 0.5 microgram/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P1.10* | REACH Article 33 information about substances in articles is available at (add URL or mail contact): emo@ricoh-europe.com | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2 Batteries | | | | |
| P2.1* | If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2.2* | Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2.3* | Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3 Safety, EMC connection to the telephone network and labeling | | | | |
| P3.1* | The product complies with legally required safety standards as specified (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3.2* | The product complies with legally required standards for electromagnetic compatibility (see legal reference). | <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 complies with legally required standards for radio and telecommunication devices (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3.4* | The product is labeled to show conformance with applicable legal requirements (see legal reference). | <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 max 0.01% (see legal reference and Note B1). | <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 max 0.1% by weight (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P4.3* | If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P5 Product packaging | | | | |
| P5.1* | Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P5.2* | Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P5.3* | The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Note B¹: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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| Model number * | SP C440DN | Logo |  |
| Issue date * | 14 May 2015 | | |

| 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. |
| P6 | Treatment information | | | |
| P6.1* | Information for recyclers/treatment facilities is available (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.10 | Service is available after end of production for: 7 years | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | Material and substance requirements | | | |
| P7.11* | Product cover/housing material type: Material type: PC+ABS Material type: Material type: | | | |
| P7.12 | Electrical cable insulation materials of power cables are PVC free. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P7.13 | Electrical cable insulation materials of signal cables are PVC free | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P7.14 | All cover/housing plastic parts >25g are free from chlorine and bromine. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.15 | All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B ²) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P7.16 | Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P7.17 | Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> , Other; chemical name:, CAS #: BFRs are used, which are not restricted of their inclusion by regulations | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P7.18 | Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: 1. Chemical name: , CAS #: 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(40) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P7.19 | Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| P7.20 | Of total plastic parts' weight >25g, recycled material content is <0.1% | | | |
| P7.21 | Of total plastic parts' weight >25g, biobased material content is 0% | | | |
| P7.22 | 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* | Battery chemical composition: Manganese dioxide lithium | | | <input type="checkbox"/> |
| P8.2 | Batteries meet the requirements of the following voluntary program/s: European eco-label (EU Flower) criteria (2002/687/EC & 2001/686/EC) | | | <input checked="" type="checkbox"/> |


Note B2: IEC61249-2-21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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| Model number * | SP C440DN | | Logo | |
| Issue date * | 14 May 2015 | | | |

Product environmental attributes - Market requirements (continued) **Requirement met**

| Item | | | | Yes | No | n.a. | | |
|--|--|-------------------------|--|---|--|-------------------------------------|-------------------------------------|-------------------------------------|
| P9 Energy consumption | | | | | | | | |
| 9.1 | For the product the following power levels or energy consumptions are reported: | | | | | | | |
| Energy mode * | Power level at 100 V AC | Power level at 115 V AC | Power level at 230 V AC | Reference / Standard for energy modes and test method * | | | | |
| <i>Operating Mode</i> | W | W | Mono 758.6 W Colour: 770.5 W | | | <input type="checkbox"/> | | |
| <i>Ready Mode</i> | W | W | 157 W | | | <input type="checkbox"/> | | |
| <i>Sleep Mode</i> | W | W | 0.66 W | | | <input type="checkbox"/> | | |
| | W | W | W | | | <input type="checkbox"/> | | |
| | W | W | W | | | <input type="checkbox"/> | | |
| | W | W | W | | | <input type="checkbox"/> | | |
| EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.) | W | W | W | | | <input checked="" type="checkbox"/> | | |
| PTEC * Typical Energy Consumption | W | W | W | | | <input checked="" type="checkbox"/> | | |
| TEC * Typical Energy Consumption | kWh/week | kWh/week | 4.336 kWh/week | | | <input type="checkbox"/> | | |
| ETEC * Annual Energy Consumption | kWh/year | kWh/year | 208.128 kWh/year | | | <input type="checkbox"/> | | |
| Display resolution* : | Megapixels | | | | | <input checked="" type="checkbox"/> | | |
| Print Speed* : | 40 Images per minute | | | | | <input type="checkbox"/> | | |
| Default time to enter energy save mode: | 6 minutes | | | | | <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® version: 2.0 Product category: Printer Others specify: | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P10 Emissions | | | | | | | | |
| Noise emission – Declared according to ISO 9296 | | | | | | | | |
| P10.1 | Mode | Mode description | Declared A-weighted sound power level $L_{WA,d}$ (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"/> | (only if product is not operator attended) | | | |
| | | | | or Desk side <input type="checkbox"/> | | | | |
| | Idle | * Stand-by | * 4.6 | 37.6 | | <input type="checkbox"/> | | |
| | Operation | * Operating Mode | * Mono: 6.9 Colour: 7 | Mono: 58.6 Colour: 59.9 | | <input type="checkbox"/> | | |
| | Other mode | | | | | | | |
| | Measured according to: <input checked="" type="checkbox"/> ISO7779 <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: | | | | Blue Angel | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | | | | Nordic Swan | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| Model number * | SP C440DN | | Logo |  |
| Issue date * | 14 May 2015 | | | |

| Product environmental attributes - Market requirements (continued) | | | Requirement met | | |
|--|---|---------------------------|--|---|---|
| Item | | | Yes | No | n.a. |
| Chemical emissions from printing products | | | | | |
| P10.3* | Test performed according to ECMA-328 (ISO/IEC 28360) standard <input type="checkbox"/> , other specify: RAL-UZ171 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P10.4 | Typical emission rate (print phase) is (mg/h): Dust (mono: 1.4 colour: 0.93) Ozone (mono: <limit of detection colour: <limit of detection) Styrene (mono: 0.11 colour: 0.3) Benzene (mono: 0.009 colour: 0.007) TVOC (mono: 8.3 colour: 11) | | | | <input checked="" type="checkbox"/> |
| P10.5 | Chemical emission requirements of the following voluntary program/s are met for: Dust <input checked="" type="checkbox"/> Ozone <input checked="" type="checkbox"/> Styrene <input checked="" type="checkbox"/> Benzene <input checked="" type="checkbox"/> TVOC <input checked="" type="checkbox"/> | Blue Angel Nordic Swan | <input type="checkbox"/> <input type="checkbox"/> | <input checked="" type="checkbox"/> <input type="checkbox"/> | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| Electromagnetic emissions | | | | | |
| P10.6 | Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P11 Consumable materials for printing products | | | | | |
| P11.1* | A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3). | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P11.2* | Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P11.3* | 2-sided (duplex) printing/copying is an integrated product function. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P12 Ergonomics for computing products | | | | | |
| P12.1* | The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P12.2* | The physical input device meets the requirements of ISO 9995 and ISO 9241-410. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| P13 Packaging and documentation | | | | | |
| P13.1* | Product packaging material type(s): Corrugated Paper weight (kg): 8.2 Product packaging material type(s): Plastic weight (kg): 0.701 Product packaging material type(s): weight (kg): | | | | |
| P13.2* | Product plastic packaging is free from PVC. | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P13.3* | Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> , Paper <input checked="" type="checkbox"/> , Other <input type="checkbox"/> | | | | <input type="checkbox"/> |
| P13.4* | For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: % | | | | <input checked="" type="checkbox"/> |
| Rev. P13.5 | User and product documentation do not contain chlorine bleached paper | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P14 Additional information (See ^{Note B⁴}) | | | | | |
| <i>This product is designed to utilise recycled plastic materials wherever available.</i> | | | | | |
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Note B⁴: 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.

Legal references Europe Annex B

| Reference | Declaration item |
|--|------------------------------|
| 2002/95/EC (ROHS Directive) | P1.1, P4.1 |
| REACH, Annex XVII | P1.6, P1.8, P4.2 |
| REACH, Annex XVII | P1.4 |
| REACH, Annex XVII | P1.2 |
| REACH, Annex XVII | P1.7 |
| REACH, Annex XVII | P1.9 |
| Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000 | P1.3 |
| Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002 | P1.5 |
| 2006/66/EC (Battery and accumulators Directive) | P2.1, P2.2, P2.3, P3.4, P8.1 |
| 2006/95/EC (Low Voltage Directive) | P3.1, 3.4 |
| 2004/108/EEC (New EMC Directive) | P3.2, 3.4 |
| 1999/5/EC (R&TTE Directive) | P3.3, 3.4 |
| "REACH" Regulation (1907/2006), annex VII | P1.10 |
| (EC) No.1272/2008 regulation on classification, labeling and packaging (CLP) | P4.3 |
| REACH article 31, annex II | P4.3 |
| 2004/12/EC (Directive on packaging and packaging waste) | P5.1 |
| (97/129/EC) (Commission Decision on Identification System for Packaging Materials) | P5.2 |
| 2037/2000/EC Regulation on Substances that Deplete the Ozone Layer | P5.3 |
| 2002/96/EC (WEEE directive) | P3.4, P6.1 |
| (EC) No.1272/2008 regulation on classification, labeling and packaging (CLP) | P7.19 |