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## Product environmental attributes – THE ECO DECLARATION

Brand *	RICOH	
Company name *		
Contact information *	emo@ricoh-europe.com	
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 *	Printer
Commercial name *	SP 4100NL
Model number *	Aficio SP 4100NL
Issue date *	April 28, 2008
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			
Item	Additional information regarding each item may be found under P14.			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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Issue date *	<b>April 28<sup>th</sup> 2008</b>	

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.
<b>P1</b>	<b>Hazardous substances and preparations</b>			
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"/>
<b>P2</b>	<b>Batteries</b>			
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"/>
<b>P3</b>	<b>Electrical safety, EMC and connection to the telephone network</b>			
P3.1*	The product meets the Low Voltage Directive (LVD) regarding electrical safety ( <i>73/23/EEC &amp; 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, 20<sup>th</sup> 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"/>
<b>P4</b>	<b>Consumable materials</b>			
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 &amp; 2001/58/EC</i> ) is available.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P5</b>	<b>Product packaging</b>			
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"/>
<b>P6</b>	<b>Treatment information</b>			
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.	
<b>P7</b>	<b>Design</b>				
	<b>Disassembly, recycling</b>				
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"/>	
	<b>Product lifetime</b>				
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"/>	
	<b>Material and substance requirements</b>				
P7.11*	Product cover/housing material type: Material type: <b>PC + ABS</b> Material type: <b>PC + PS</b> Material type:				
P7.12*	Electrical cable insulation material of power cables are halogen free (including PVC)	<input type="checkbox"/>	<input checked="" 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: <b>40</b>	<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: <b>17</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P7.18	Weight of recycled material in plastic parts is				
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"/>	
<b>P8</b>	<b>Batteries</b>				
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:			<input type="checkbox"/>	
P8.3	Batteries meet the requirements of the following voluntary program/s: <i>European eco-label (EU Flower) criteria (2001/687/EC &amp; 2001/686/EC)</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>P9</b>	<b>Energy consumption</b>				
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	<b>1500 W</b>		Maximum power	*	<input type="checkbox"/>
On-normal	* <b>566.1 W</b>	to	Operating mode	*	<input type="checkbox"/>
On-idle	<b>105 W</b>	to	Ready mode	*	<input type="checkbox"/>
Save 1	* <b>6.5 W</b>	<b>60 to off/sleep mode</b>	Off/Sleep Mode	*	<input checked="" type="checkbox"/>
Save 2		to		*	<input type="checkbox"/>
Off 1	*	to		*	<input checked="" type="checkbox"/>
Off 2		to		*	<input checked="" type="checkbox"/>
No load	*			*	<input checked="" type="checkbox"/>
TEC	* <b>121.4 kWh/y</b> Typical Energy Consumption per year			*	<input checked="" 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 <b>1.1</b> Tier: <b>2</b> Product category: <b>Monochrome laser printer</b> 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.
<b>P10 Emissions</b>					
<b>Noise emission</b> – Declared according to ISO 9296					
P10.1	Mode	Mode description	Declared A-weighted sound power level L <sub>WAd</sub> (B)	Declared A-weighted sound pressure level L <sub>pAm</sub> (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	*	* 4.4	35	<input type="checkbox"/>
	Operation	*	* 6.8	59	<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 <sub>pAm</sub> measurement distance m)					
P10.2	The product meets the acoustic noise requirements of the following voluntary program/s:				
				TCO	<input checked="" type="checkbox"/> <input type="checkbox"/> <input 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"/>
<b>Chemical emissions from printing products</b>					
P10.3*	Test performed according to ECMA-328 standard <input type="checkbox"/> , other specify: <b>RAL-UZ</b>				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	The test covers: 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"/>				
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"/>
<b>Electromagnetic emissions</b>					
P10.5	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"/>
<b>P11 Consumable materials for printing products</b>					
P11.1*	A Material Safety Data Sheet (MSDS) 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 recycled fibres that meets the requirements of EN12281 can be used.				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P11.3*	2-sided (duplex) printing/copying is an integrated product function.				<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
<b>P12 Ergonomics for computing products</b>					
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.				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
P12.2*	The product keyboard meets the requirements of ISO 9995 and EN 29241-4.				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
P12.3*	The computer input device meets the requirements of ISO 9241-9.				<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
<b>P13 Packaging and documentation</b>					
P13.1*	Product packaging material type(s): <b>Corrugated paper</b>		weight (kg): <b>5.15</b>	<input checked="" type="checkbox"/> <input type="checkbox"/>	
	Product packaging material type(s): <b>Plastic</b>		weight (kg): <b>0.11</b>		
	Product packaging material type(s):		weight (kg):		
P13.2*	Product plastic packaging is halogen free (including PVC)				<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P13.3*	User and product documentation do not contain chlorine bleached paper				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P13.4*	User and product documentation contain recycled paper				<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>P14 Additional information</b>					

#### 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.