

**Product environmental attributes - IT Eco Declaration 2003**

<b>Brand</b>	<i>RICOH</i>	
<b>Manufacturer</b>	<i>Ricoh Company Ltd.</i>	
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<b>Additional information</b>		

<b>This declaration covers the below listed Information Technology product categories* with specified product identity (ID) such as type/model number.</b>		
<input type="checkbox"/> Computer system unit CPU	<input type="checkbox"/> Mobile/portable computer	<input type="checkbox"/> Server
<input type="checkbox"/> Display/ monitor	<input type="checkbox"/> Keyboard	Digital <input type="checkbox"/> Projector <input type="checkbox"/> Camera
<input checked="" type="checkbox"/> Printer <input type="checkbox"/> Copier <input type="checkbox"/> Fax <input type="checkbox"/> Multifunction product <input type="checkbox"/> Scanner	<input type="checkbox"/> Other IT product, specify:	
<input checked="" type="checkbox"/> Black/white <input type="checkbox"/> Colour Pages per minute: <b>75</b>		
<b>Product identity</b>	<b>Aficio SP 9100DN</b>	
<b>Issue date</b>	<i>10 augustus 2006</i>	
<b>Guideline document (Version of Guideline document used for completion of this declaration (month, year))</b>	<i>June 2004</i>	

**This IT Eco Declaration consists of three documents:**

- Company environmental profile: Divided into two sections, legal and market requirements
- Product environmental attributes: Divided into two sections, legal and market requirements
- Guideline document with extensive clarifications, comments and references.

The latest version of all these documents can be downloaded from: [www.itecodeclaration.org](http://www.itecodeclaration.org)

**Notes:**

Voluntary vs compulsory requirements: Items marked V are voluntary to answer, all other items must be answered.

The latest version of the Guideline document must be used. Specify in table above according to which version of the guideline document this declaration has been completed.

This version of the IT Eco Declaration is adjusted to the document "Product-related Environmental Attributes", issued by the European Association for Standardizing Information and Communication Systems (ECMA), TR/70, version 1999.

This version of the IT Eco Declaration meets the basic principles of ISO14021:1999, Environmental labels and declarations – Self-declared environmental claims (Type II environmental labelling).

When references are given to standards like ISO, IEC and EN, the latest version should always be referred to.

For telecommunication products, use eco declaration for telecommunication products.

This IT Eco Declaration version can be used from October 1<sup>st</sup> 2003 and shall be used for products announced after December 1<sup>st</sup> 2003.

**The IT Eco Declaration is a system for declaration of environmental aspects of IT and telecom products, developed by the Nordic IT organisations, IT-Företagen in Sweden, ITB in Denmark, IKT-Norge in Norway and TTK ry in Finland.**

**This IT Eco Declaration may only be used after having signed a contract with at least one of these organisations.**

Product identity	<b>Aficio SP 9100DN</b>		
Issue date	10 augustus 2006	Logo	<b>nashuatec</b>

Product environmental attributes - <u>Legal requirements</u>		Requirement met		
Item	Additional information regarding each item may be found under P14.	Yes	No	n.a.
<b>P1 Environmental conscious design</b>				
P1.1	Product parts are free from, i.e. less than 0.1% by weight (b.w.), CFCs & HCFCs, asbestos, PCB & PCT (3093/94/EEC, 76/769/EEC, 6th amendment, 99/77/EEC, 82/828/EEC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2	Components are free from, i.e. less than 0.1% b.w., mercury (Hg), except for small amounts of mercury which are allowed in light sources. (SE SFS 1998:944)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3	Cadmium (Cd) content of colorants, stabilizers, and surface treatments does not exceed, 0.01% b.w., as specified in 76/769/EEC, 10th amendment, 1991/338/EEC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4	Paints are free from lead (Pb), i.e. less than 0.1% b.w., (76/769/EEC, 8th amendment, 89/677/EEC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.5	Paints, coatings, plastics, rubbers and seals are free from flame retardants and/or plasticizers containing Short Chain Chlorinated Paraffines (SCCPs) with more than 0,1% by weight, 10-13 carbon atoms, minimum 48% chlorine by weight, CAS number 63449-39-8 (NO MVD regulation 1544, 2000.12.13 and FI 416/2003).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.6	If the product is intended for direct and prolonged skin contact, the surfaces do not release nickel (Ni) above levels specified in (76/769/EEC, 8th amendment, 94/27/EEC)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P2 Batteries</b>				
P2.1	If hazardous batteries are used in the product, they are labelled. (93/86/EEC).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2	If batteries are used in the product they are free (<0.0005% by weight) from mercury (Hg) (98/101/EC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P3 Electrical safety, EMC and connection to the telephone network</b>				
P3.1	The product meets the Low Voltage Directive (LVD) regarding electrical safety (73/23/EEC & 93/68/EEC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2	The product meets the EMC Directive regarding electromagnetic compatibility (89/336/EEC)	<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 (1999/5/EC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.4	The product is CE-marked (93/68/EEC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>P4 Consumable materials</b>				
P4.1	If a photo conductor (drum, belt etc.) is used in the product, it is free (<0.01% by mass) from cadmium (Cd) (76/769/EEC and 91/338/EEC)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P4.2	If an ink is used in the product, it is free (<0.01% by mass) from cadmium (Cd) (91/338/EEC)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P4.3	If toner/ink (or corresponding) are used in the product, they are classified and if required labelled in accordance with EU directives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P5 Packaging materials</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 (100 ppm). (94/62/EC).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2	The product packaging material is free from CFC/HCFC.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>This product meets above listed legal requirements</b>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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Product environmental attributes - <u>Market requirements</u>				Requirement met			
Item	V = Voluntary to answer. Additional information regarding each item may be found under P14.			Yes	No	n.a.	
<b>P6 Environmental conscious design</b>							
<b>Disassembly, recycling</b>							
P6.1	Gluing/welding of different material has been avoided.			<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P6.2	Plastic materials in covers/housing are free from surface coating.			<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P6.3	Mechanical plastic parts >100g, consist of one material or of easily separable materials.			<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P6.4	Plastic parts >25g, have material codes according to ISO 11469.			<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P6.5	<b>V</b>	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"/>	
P6.6	If labels are required they should be separable. (This requirement does not apply to safety labels).			<input checked="" type="checkbox"/>	<input type="checkbox"/>		
<b>Product lifetime</b>							
P6.7	Upgrading of the product can be done with commonly available tools			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P6.8	Processor, memory and cards of various types can be changed/upgraded.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P6.9	Hard disk, CD/DVD drives and / or floppy drive can be changed/upgraded.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P6.10	<b>V</b>	Spare parts are available after end of production for:		7 years		<input type="checkbox"/>	
<b>Material requirements</b>							
P6.11	Plastic parts >25g are free from PBB/PBDE, i.e less than 0.1% b.w.			<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P6.12	<b>V</b>	Plastic parts >25g are free from flame retardant substances/preparations above 0.1% classified as R45/46, R50/51/52/53 and R60/61 (67/548/EEC)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P6.13	Chemical specification of flame retardants in plastic parts >25g according to ISO 1043-4 declared below:						
		Product cover/ housing:	FR (40)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		Printed circuit boards:	FR (17)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<b>V</b>	Other plastic parts:	FR (40)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P6.14	Product cover/housing material type, specified according to ISO 1043-1						
		Material type PC + ABS	Material type PC + PS				
P6.15	Electrical cable insulation material specification			<input type="checkbox"/> PVC	<input checked="" type="checkbox"/> Other		
P6.16	<b>V</b>	Light sources are free from mercury, i.e. less than 0.1% b.w.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		If mercury is used specify: Number of lamps & max. mercury per lamp mg					
P6.17	<b>V</b>	Mechanical plastic parts > 25g are free from lead (Pb), i.e. less than 0.1% b.w.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P6.18	<b>V</b>	Product parts are free from beryllium (Be) and beryllium oxide (BeO), i.e. less than 0.1% b.w.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>P7 Batteries</b>							
P7.1	Product is free from batteries defined as hazardous (91/157/EEC)			<input checked="" type="checkbox"/>	<input type="checkbox"/>		
P7.2	<b>V</b>	Batteries are used that meet the European eco-label (EU Flower) criteria (2001/687/EC & 2001/686/EC)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P8 Energy consumption</b>							
P8.1			n.a.			n.a.	
	<b>V</b>	Maximum power	W	<input type="checkbox"/>	<b>V</b> Operation	1332 W	<input type="checkbox"/>
		Low power mode	192 W	<input type="checkbox"/>	Off mode	W	<input checked="" type="checkbox"/>
		Sleep mode	W	<input checked="" type="checkbox"/>	Deep sleep mode	W	<input checked="" type="checkbox"/>
<b>If the product is in Stand by mode, it reverts to:</b>							
		Low power mode in	1 min	<input type="checkbox"/>	Sleep mode in	min	<input checked="" type="checkbox"/>
	<b>V</b>	Deep sleep mode in	min	<input checked="" type="checkbox"/>	<b>V</b> Off mode in	15 min	<input type="checkbox"/>
P8.2	2-sided printing/copying (duplex) from 1-sided originals is an integrated product function.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P8.3	Information about the energy save function is given in the user documentation. (Not applicable when no instruction is needed to operate the energy save function, i.e. the energy save function cannot be adjusted or inhibited by the user.)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P8.4	The product meets the requirements of ENERGY STAR®. Evidence on <a href="http://www.eu-energystar.org">www.eu-energystar.org</a>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
P8.5	<b>V</b>	The product meets the requirements of GEEA.			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P8.6	<b>V</b>	Display meets the energy save requirements of the European eco-label (EU Flower) (2001/686/EC & 2001/687/EC).			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>V</b>	Desktop or portable computer meets the energy save requirements of the European eco-label (EU Flower) (2001/686/EC & 2001/687/EC)			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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<b>Product environmental attributes - Market requirements (continued)</b>		<b>Requirement met</b>			
Item	V = Voluntary to answer. Additional information regarding each item may be found under P14.	Yes	No	n.a.	
<b>P9 Noise characteristics (Measured and declared according to ISO 7779 and ISO 9296)</b>					
P9.1	Declared A-Weighted Sound Power Level, LWAd (1B = 10 dB) Operating mode: L <sub>WAd</sub> : 7.3 B      Idling mode: L <sub>WAd</sub> : 5.4 B			<input type="checkbox"/>	
P9.2	V The product meets the acoustic noise requirement of:	TCO	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P9.3	V Declared A-Weighted Sound Pressure Level, LpAm (measured at the operator position if applicable; otherwise measured at the 1m bystander positions). Operating mode: L <sub>pAm</sub> : 56 dB      Idling mode: L <sub>pAm</sub> : 33 dB Test position:      L <sub>pAm</sub> : <input checked="" type="checkbox"/> Operator position <input type="checkbox"/> Bystander positions Test position for PC tower      L <sub>pAm</sub> : <input type="checkbox"/> Table top <input type="checkbox"/> Floor standing			<input type="checkbox"/>	
<b>P10 Emissions</b>					
P10.1	Chemical emission test performed according to RAL-UZ <input checked="" type="checkbox"/> , other standard <input type="checkbox"/> , specify:		<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"/> TVOC <input checked="" type="checkbox"/> Benzene <input checked="" type="checkbox"/>				
P10.2	V The product meets the requirement for chemical emission in:	TCO	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>
P10.3	Display/monitor/portable computer meets the requirement for low frequency electromagnetic fields in:	MPR-II	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		TCO	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		prEN50279- A <input type="checkbox"/> , -B <input type="checkbox"/> , -C <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>P11 Consumable materials</b>					
P11.1	The photo conductor is free from selenium.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.2	If the photo conductor contains selenium there is a system for waste recovery.		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P11.3	V Safety Data Sheet/Material Safety Data Sheet (SDS/MSDS) is available for toner/ink (99/45/EC & 2001/58/EC)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P11.4	V Paper containing recycled fibres and meeting requirements of ENV12281 can be used in the product.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P12 Ergonomics</b>					
P12.1	The computer system meets the ergonomic requirements of EN 29241-3, -7, -8 for CRT displays and EN-ISO 13406-2 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): Corrugated paper      Weight (kg): 16.01 Plastic      Weight (kg): 1.47			<input type="checkbox"/>	
P13.2	V Plastic packaging material is marked according to DIN 6120, ISO 11469 or ISO 1043, 1-4.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.3	V Product plastic packaging is free from chlorine		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P13.4	V User and product documentation are free from chlorine bleached paper		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P14 Additional information</b>					