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Company environmental profile - THE ECO DECLARATION

Brand	RICOH	Logo
Company name *	RICOH Company Ltd.	
Contact information	Ricoh Europe Plc 66 Chiltern Street, London W1U 4AG, United Kingdom emo@ricoh-europe.com	nashua <u>tec</u>
Internet site *	www.ricoh.com	
Issue date *	1 November 2010	
Intended market *	🔲 Global 🔀 Europe 📃 Asia, Pacific & Japan 🗌 Americas	Other
Additional information		

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Quality	control	Requireme	ent met
Item		Yes	No
QC1 *	The company enforces an internal quality control system to ensure the correctness of this eco declaration	\boxtimes	
QC2 *	QC2 * The company is a member of an eco declaration system that enforces regular independent quality control.		

Compan	y environmental profile - Legal requirements	Require	ement	t met
Item		Yes	No	n.a.
C1	Product recycling			
C1.1*	The company participates in a system or has its own system for collection and recycling of end of life products in countries where the company puts them on the market and where required (2002/96/EC WEEE directive).			
C2	Battery recycling			
C2.1*	The company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (2006/66/EC Battery and accumulators Directive) or pays eco tax / fee where required.			
C3	Packaging recycling			
C3.1*	The company participates in a system or has its own system for collection and recycling of packaging material in countries where the company puts products on the market and where required (2004/12/EC Directive on packaging and packaging waste)			

Compa	ny environmental profile - Market requirements	Requir	ement	t met
Item		Yes	No	n.a.
C4	Environmental policy and environmental management			
C4.1*	The company has a documented environmental policy approved by the management.	\boxtimes		
C4.2*	The company has an environmental management system covering: Product development Manufacturing If so certified according to: ISO 14001 Other as specified in C6	\boxtimes		
C4.3	The company regularly publishes an environmental report. If so, it meets the recommendations of A The Global Reporting Initiative D Other as specified in C6	\boxtimes		
C5	Recycling			
C5.1*	Information about the product, battery & packaging take back system (C1, C2, C3) is available in printed or electronic format.	\boxtimes		
C6	Additional information			

Product environmental attributes – THE ECO DECLARATION

	used on product specification or test results based obtained from sample testing), that the product ts given in this declaration.
Type of product *	Multifunction product
Commercial name *	MP C4501
Model number *	Aficio MP C4501
Issue date *	1 November 2010

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Model number *	Aficio MP C4501		
Issue date *	1 November 2010	Logo	nashuatec

Product	environmental attributes - Legal requirements	Requir	emen	t met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain lead max 0.1%, cadmium max 0.01%, mercury max 0.1%, hexavalent chromium max 0.1%, polybrominated biphenyls (PBB) max 0.1% and polybrominated diphenyl ethers (PBDE) max 0,1% (2002/95/EC ROHS Directive) see note B1			
P1.2*	Products do not contain Asbestos (REACH, Annex XVII). Comment: Legal reference has no maximum concentration value.	\boxtimes		
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (<i>Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000</i>). Comment: Legal reference has no maximum concentration values.			
P1.4*	Products do not contain polychlorinated biphenyl (PCB) max 0.005% by weight, polychlorinated terphenyl (PCT) max 0.005% by weight (<i>REACH, Annex XVII</i>).	\square		
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 max 0.1% (<i>Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002</i>).			
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>REACH, Annex XVII</i>). Comment: Legal reference has no maximum concentration values.			\boxtimes
P1.7*	Textile and leather parts with direct skin contact do not contain Azo colorants that split aromatic amines max 0.003% by weight (<i>REACH, Annex XVII and Note B1</i>).			\boxtimes
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (<i>REACH, Annex XVII</i>). Comment: Legal reference has no maximum concentration values.			
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm2/week (<i>REACH, Annex XVII</i>). Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact) (REACH Regulation 1907/2006, Annex VII)	\square		
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 (2006/66/EC Battery and accumulators Directive).			
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 (2006/66/EC Battery and accumulators Directive).	\square		
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" (2006/66/EC Battery and accumulators Directive).			
P3	Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (2006/95/EC Low Voltage Directive).	\boxtimes		
P3.2*	The product complies with legally required standards for electromagnetic compatibility (2004/108/EEC New EMC Directive).	\boxtimes		
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 (1999/5/EC (R&TTE Directive).	\square		
P3.4*	The product is labeled to show conformance with applicable legal requirements (2006/66/EC Battery and accumulators Directive, 2006/95/EC Low Voltage Directive, 2004/108/EEC New EMC Directive, 1999/5/EC R&TTE Directive, 2002/96/EC WEEE directive)			
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% (2002/95/EC ROHS Directive).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (REACH, Annex XVII).			
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/MSDS) in accordance with these requirements (EC No. 1272/2008 regulation on classification, labeling and packaging CLP, REACH article 31, annex II).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain lead, mercury, cadmium and hexavalent chromium max 0.01% by weight of this together (2004/12/EC Directive on packaging and packaging waste).			
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (97/129/EC Commission Decision on Identification System for Packaging Materials).			
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (2037/2000/EC Regulation on Substances that Deplete the Ozone Layer). Comment: Legal reference has no maximum concentration values.			

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

Model nu		Aficio MP C4501				
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Produ	ct enviro	nmental attributes - Market requirements - Environmental conscious	design	Requir	omon	t mot
Item		atory to fill in. Additional information regarding each item may be found under P14.	uesign	Yes	No	n.a.
P6		nt information		100	110	
P6.1*		on for recyclers/treatment facilities is available (2002/96/EC WEEE directive).				
P7	Design	mbly, recycling				
P7.1*		t have to be treated separately are easily separable				
P7.2*		aterials in covers/housing have no surface coating.			H	⊢⊢
P7.3*		arts >100g consist of one material or of easily separable materials.			⊢⊢	╞
P7.4*		arts >25g have material codes according to ISO 11469 referring ISO 1043.			-	╞
P7.5	•	arts are free from metal inlays or have inlays that can be removed with commonly a	available tools		$- \blacksquare$	⊢⊢
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).			⊢⊢	╶╞┤
1 1.0	Product					
P7.7*		g can be done e.g. with processor, memory, cards or drives				
P7.8*		g can be done using commonly available tools			H	⊢⊢
P7.9.		Ints are available after end of production for: 7 years			H	╶╞╡
P7.10		s available after end of production for: 7 years			\dashv	╞
		and substance requirements				
P7.11*		cover/housing material type:				
	Material	type: PC + ABS Material type: PC + PS Materia	al type:			
P7.12		I cable insulation material of power cables are PVC free.		\boxtimes		
P7.13	Electrica	I cable insulation materials of signal cables are PVC free.		\boxtimes		
P7.14	All cover	/housing plastic parts >25g are free from chlorine and bromine.		\boxtimes		
P7.15	All printe note B2)	d circuit boards (without components) >25g are halogen free, as defined in IEC612	49-2-21 (see	\boxtimes		
P7.16	Flame re Marking:	tarded plastic parts >25g in covers / housings are marked according ISO 1043-4:		\boxtimes		
P7.17	Alt. 1 Chemica	I specifications of flame retardants in printed circuit boards >25g (without compone additive), TBBPA (reactive), Other; chemical name: ,	ents): CAS #:			
		l specifications of flame retardants in printed circuit boards (without components) > 3-4: <i>FR (17)</i>	25g according			
P7.18	concentr	tarded plastic parts >25g contain the following flame retardant substances/prepara ations above 0.1%: it: No legal limits exist, this is a market requirement.	tions in			
	2. Chem	ical name: , CAS #: ical name: , CAS #: ical name: , CAS #:				
	Alt. 2 Chemica <i>FR (40)</i>	l specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	R40, R40 regulatio	arts>25g are free from flame retardant substances/preparations above 0.1% classi 6, R48, R50, R51, R53, R60, R61 and any combination of these (<i>see note B3</i>)(<i>EC</i> <i>n on classification, labeling and packaging CLP</i>)	No. 1272/2008			
P7.20		plastic parts' weight >25g, recycled material content is 0% [pls see P14 for addition	al information]			
P7.21 P7.22		plastic parts' weight >25g, biobased material content is 0%. Irces are free from mercury				
	If mercur	y is used specify: Number of lamps: and max. mercury content per lamp:	mg			
P8 P8.1*	Batterie	s hemical composition (2006/66/EC Battery and accumulators Directive): Lithium-io	2			
P8.2		meet the requirements of the following voluntary program/s: <i>European eco-label</i>				<u> </u>
F0.2	criteria	(2001/687/EC & 2001/686/EC)	(EU Flower)			

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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Produc	t environmenta	al attribu	t <mark>es - Market requ</mark> i	irements (c	continu	ied)			Re	equire	ment	met
Item	_									Yes	No	n.a.
P9 9.1	Energy consum	-	ng power levels or en		antione	ave been	monsured					
-								1		<u> </u>		
Energy r	node *		Power level at 100 V AC	Power level 115 V A		Power le [.] 230 V			e / Standard nd test metho		rgy	
Maximu	m Energy Consu	mption	VV	W		1700 V	V					
Operati	ng Mode		VV	W		796.9 V	V					
Ready N	Mode		VV	W		181 W						
Low Po	wer Mode		W	W		102 W						
Off/Slee	ep Mode		W	W		1.5 W						
			VV	W		١	N					
EPS No-			W	W			W					\square
	I power supply / c in the wall outlet b											
disconne	ected from the pro											
PTEC * Typical E	Energy Consumpti	on	W	W		W						
TEC *	Energy Consumpti	ion	kWh/week	kWh	/week	2.647 kW	/h/week					
ETEC *			kWh/year	kWh	/year	127 056	kWh/year					
	Energy Consumpti	on	(www.ycar	KVV1	/ year	121.000	Kwrii year					
	resolution * : dpi											
Print Spe	eed * : 45 pages	per minut	e									
	time to enter energ	gy save mo	ode: 16 minutes									
P9.2*			gy save function is p		•					\boxtimes		
P9.3*			ergy requirements of 1.1 Tier: 2 Produ				1/s:			\square		
P10	Emissions											
	Noise emission	- Declare	ed according to ISO 9	296								
P10.1	Mode	Iode Mode description		A-w	Declared A-weighted sour		Declared A-weighted sound pressure level L_{pAm} (dB)					
						L_{WAd} (B)	Operator p	osition	Bystander	positior	าร	
						WAd (D)		esktop	(only if p	broduct	is not	
							or Des	· =	opera	tor atter	nded)	
	Idle	* Stand-	by		* 4.2				26.5			
	Operation	* Operat	ting Mode		* 6.8	6.8 50.9						
	Other mode											
	Measured accor	ding to: 📐		-74 if not covered		NA 74 mit	hl mooo	uromont di	atanaa	m)		
P10.2	The product me	ets the acc	bustic noise requirem						Starice	m)		
	·				0	,			lue Angel ordic Swan	\square		
	Chamical amia	alawa fuan	e enintine en el cete									
P10.3*			n printing products to ECMA-328 (ISO/IE	=C 20260) of	andard	othor		117		\square		
P10.4			t phase) is (mg/h):	20 20300) SI	anuaru	, other	specify: RAI	-02				
			olour 2.41) Ozone (m	onochrome	<limit o<="" td=""><td>f detectio</td><td>n colour 2.7</td><td>5) Styrene</td><td>monochrom</td><td>e <mark>0.06</mark> c</td><td>colour</td><td>0.11</td></limit>	f detectio	n colour 2.7	5) Styrene	monochrom	e <mark>0.06</mark> c	colour	0.11
			<i>imit of detection</i> col					<mark>9.68</mark>)		\square		
P10.5			ments of the followin ∇		orogram	/s are met	t for :					
	Dust 🖂 Ozone	Styrer	ne 🔀 Benzene 🔀 T						ue Angel ordic Swan		H	
P10.6	Electromagneti		ns ne requirement for lov	w froqueness	oloctror	agnotic fic	lde of the fe	llowing yel	untan/			
1 10.0	program/s:	เร เกออเจ แ		w nequency (CIECUUII			nowing voi	antar y			\boxtimes

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Produc	t environmental attributes - Market requirements (continued)	Require	ment	met
Item		Yes	No	n.a
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).	\square		
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.	\square		
P11.3*	2-sided (duplex) printing/copying is an integrated product function.	\boxtimes		
P12	Ergonomics for computing products			
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.			\times
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.			\square
P13	Packaging and documentation			
P13.1*	Product packaging material type(s):Corrugated Paperweight (kg):10.52Product packaging material type(s):Plasticweight (kg):0.875Product packaging material type(s):weight (kg):weight (kg):			
P13.2*	Product plastic packaging is free from PVC	\square		
P13.3*	Specify media for user and product documentation (tick box): Electronic Z Paper Z Other _			
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber.			\square
P14	Additional information			
	This product is designed to utilise recycled plastic materials wherever available			