

## 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 *	RICOH	Logo
Company name *	RICOH Company Ltd.	
Contact information *	Ricoh Europe Plc 20 Triton Street, London NW1 3BF, United Kingdom emo@ricoh-europe.com	RICOH
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 4510DN				
Model number *	SP 4510DN				
Issue date *	26 March 2014				
Intended market *	🗌 Global 🛛 Europe 📃 Asia, Pacific & Japan 📃 Americas 🗌 Other				
Additional information					

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

Quality Control			nt met
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	$\boxtimes$	
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).	ol 🔀	

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Product	oduct environmental attributes - Legal requirements				
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 <sup>Note</sup> B <sup>1</sup> )				
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	$\square$			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	$\boxtimes$			
1 1.5	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-				
	trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.				
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	$\boxtimes$			
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).	$\boxtimes$			
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.				
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split			$\square$	
D1.0*	aromatic amines. (See legal reference and Note B1)				
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference).				
D. i. at	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/cm <sup>2</sup> /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	$\boxtimes$			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	$\boxtimes$			
	emo@ricoh-europe.com				
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)				
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)	$\boxtimes$			
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)				
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).	$\square$			
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).		Ħ		
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies		H	H	
	with legally required standards for radio and telecommunication devices (see legal reference).				
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	$\boxtimes$			
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).	$\boxtimes$			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).	$\boxtimes$			
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).				
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.				
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	$\square$			
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.	$\square$			

Note B<sup>1</sup>: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Draduat	onviron	mentel attributes. Market reguirements. Environmentel conscious design — De		mont	mot	
		mental attributes - Market requirements - Environmental conscious design Re atory to fill in. Additional information regarding each item may be found under P14.	equire Yes	No		
Item P6		nt information	res	INO	n.a.	
P6.1*		on for recyclers/treatment facilities is available (see legal reference).				
P7	Design					
	Disasse	mbly, recycling	-			
P7.1*		t have to be treated separately are easily separable	$\boxtimes$			
P7.2*	Plastic materials in covers/housing have no surface coating.					
P7.3*	Plastic p	arts >100g consist of one material or of easily separable materials.	$\boxtimes$			
P7.4*	Plastic p	arts >25g have material codes according to ISO 11469 referring ISO 1043.	$\times$			
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available tools.				
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).				
	Product					
P7.7*	Upgradir	g can be done e.g. with processor, memory, cards or drives	$\square$			
P7.8*	Upgradir	g can be done using commonly available tools	$\square$			
P7.9.	Spare pa	Ints are available after end of production for: 7 years		Ē		
P7.10	_	s available after end of production for: 7 years		Ħ	Ħ	
		and substance requirements				
P7.11*		cover/housing material type:				
		type: PC+ABS Material type: PC+PS Material type:				
P7.12	Electrica	I cable insulation materials of power cables are PVC free.				
P7.13	Electrica	l cable insulation materials of signal cables are PVC free				
P7.14	All cover	/housing plastic parts >25g are free from chlorine and bromine.				
P7.15	All printe	d circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See				
P7.16	Flame re Marking:	tarded plastic parts >25g in covers / housings are marked according ISO 1043-4:				
P7.17		I specifications of flame retardants in printed circuit boards >25g (without components): additive) , TBBPA (reactive), Other; chemical name:, CAS #:				
	ISO 1043	I specifications of flame retardants in printed circuit boards (without components) >25g according 3-4:				
P7.18		etarded plastic parts >25g contain the following flame retardant substances/preparations in ations above 0.1%:				
	Comm 1. Chem 2. Chem	ent: No legal limits exist, this is a market requirement. ical name: , CAS #: ical name: , CAS #: ical name: , CAS #:				
	Chemica	I specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	R40, R46	arts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)				
P7.20		plastic parts' weight >25g, recycled material content is 0%.				
P7.21		extra 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					
P8	Batterie					
P8.1*	Battery c	hemical composition: Manganese dioxide lithium				
P8.2		meet the requirements of the following voluntary program/s: <i>European eco-label (EU Flower)</i> (2002/687/EC & 2001/686/EC)				

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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Product environmental attributes - Market requirements (continued) Requirement me					met		
Item						Yes No	n.a.
P9 Energy consump							
9.1 For the product th	9.1 For the product the following power levels or energy consumptions are reported:						
Energy mode *	Power level at <b>100</b> V AC	Power level at 115 V AC	Power level 230 V AC	at	Reference / Standard modes and test method *	for energy	
Operating Mode	W	W	561.7 W				
Ready Mode	W	W	90.5 W				
Sleep Mode	W	W	0.56 W				
	W	W	W				
	W	W	W				
	W	W	W				
EPS No-load	W	W	W				$\boxtimes$
(External power supply / charger plugged in the wall outlet but disconnected from the product.)							
PTEC * Typical Energy Consumption	W	W	W				$\square$
Typical Energy Consumption							
TEC *	kWh/week	kWh/week	1.710 kWh/wee	ek			
Typical Energy Consumption							
ETEC *	kWh/year	kWh/year	82.08 kWh/yea	r			
Annual Energy Consumption							
Display resolution* : M	egapixels		I				
Print Speed * : 40 Imag	es per minute						
Default time to enter energy s	ave mode: 1 minutes						
P9.2* Information about	the energy save functio	n is provided with th	e product.				
P9.3* The product meet ENERGY STAR® Others specify:	s the energy requirement version: <b>2.0</b> Pro	nts of the following v duct category: <i>Print</i>		n/s:			
P10 Emissions	Destand second's site	100 0000					
	<ul> <li>Declared according to Mode description</li> </ul>	150 9296	Declared		Declared A-weighte	d	
			A-weighted		sound pressure level $L_{pA}$		
			sound power level $L_{WAd}$ (B)	Ope	-	nder positions	
					Desktop		
						product is not ator attended)	
Idle	* Stand-by		* 3.4		20		
Operation	* Operating Mode	ł	* 7.1		60.5		
Other mode							-
Measured accord	ing to: 🔀 ISO7779 📃 Other	ECMA-74 (only if not covered	by ECMA-74 with	ո L <sub>pAr</sub>	n measurement distance	m)	
P10.2 The product meet	s the acoustic noise req	uirements of the foll	owing voluntary p	orogra	am/s: Blue Angel Nordic Swan		

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Product e	environn	nental attributes - Market requirements (continued)		R	equire	ment	met
Item					Yes	No	n.a.
	Chemica	al emissions from printing products					
P10.3*	Test perf	formed according to ECMA-328 (ISO/IEC 28360) standard, other specify: RAL	- UZ171		$\square$		
P10.4		emission rate (print phase) is (mg/h):					$\overline{\boxtimes}$
	•••	3 Ozone < limit of detection Styrene 0.051 Benzene < limit of detection TVO	C <b>4.5</b>				
P10.5	Chemica Dust 🔀	I emission requirements of the following voluntary program/s are met for:		e Angel Swan			
	Electron	nagnetic emissions					
P10.6		er display meets the requirement for low frequency electromagnetic fields of the fol	lowing vol	untary			$\square$
P11		able materials for printing products					
P11.1*	A Safety	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally req	uired (see	P4.3).	$\square$		
P11.2*	Paper co EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets t 1.	he require	ments of	$\boxtimes$		
P11.3*	2-sided (	duplex) printing/copying is an integrated product function.			$\boxtimes$		
P12		nics for computing products					
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technolo	gies.				$\boxtimes$
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410.					$\boxtimes$
P13	Packagi	ng and documentation					
P13.1*	Product	packaging material type(s): Corrugated Paper packaging material type(s): Plastic packaging material type(s): weight (kg): 0.754 weight (kg): 0.754					
P13.2*		plastic packaging is free from PVC.			$\square$		
P13.3*							
P13.4*		er user and product documentation, please specify contained percentage of post-co	onsumer re	ecycled			
Rev. P13.5	User and	product documentation do not contain chlorine bleached paper			$\square$		
P14		nal information (See <sup>Note</sup> B <sup>4</sup> )					
	Tł	his product is designed to utilise recycled plastic materials wherever availab	le.				

<sup>&</sup>lt;sup>Note</sup> B<sup>4</sup>: 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