

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	DICOLL
	20 Triton Street, London NW1 3BF, United Kingdom	RICOH
	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 statement	ts given in this declaration.				
Type of product *	Printer				
Commercial name *	SP 4510SF				
Model number *	SP 4510SF				
Issue date *	13 January 2015				
Intended market *	☐ Global 区 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		Requireme	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 🔀	

Model number *	SP 4510SF		
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Product	duct environmental attributes - Legal requirements			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)			
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	\square		
	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).			
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	$\neg \neg$	\Box	X
	aromatic amines. (See legal reference and Note B1)	Ш	ш	
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as			\boxtimes
	pentachlorophenol and derivatives (see legal reference). 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	\square	$\overline{}$	
1 1.5	microgram/cm²/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.		Ш	
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	\square	\Box	
	emo@ricoh-europe.com		ш	
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		$\overline{}$	
	accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)		<u>Ц</u>	
P2.3*	design of the product). Exception: Batteries that are permanently installed for safety, performance, medical		Ш	Ш
Do	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).		<u>Ц</u>	Щ_
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	\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 (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).			
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).	\boxtimes		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).	\boxtimes		
	Comment: Legal reference has no maximum concentration values.			

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

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Product	equire	men	met	
Item	ct environmental attributes - Market requirements - Environmental conscious design *=mandatory to fill in. Additional information regarding each item may be found under P14.			n.a.
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).			
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	\boxtimes		
P7.2*	Plastic materials in covers/housing have no surface coating.		Ħ	Ħ
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		旹	∺
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	\overline{X}	井	井
	, , ,		井	
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		_Ц	<u> </u>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	\boxtimes	Ш	
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\boxtimes		<u>Ц</u>
P7.8*	Upgrading can be done using commonly available tools	\boxtimes		
P7.9.	Spare parts are available after end of production for: 7 years	\boxtimes		
P7.10	Service is available after end of production for: 7 years	\boxtimes		
	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.			
P7.13	Electrical cable insulation materials of signal cables are PVC free			
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.		\Box	T
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See			
P7.16	Note B ²) Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:		\Box	
	Marking:			
P7.17				
	Chemical specifications of flame retardants in printed circuit boards >25g (without components):			
	TBBPA (additive) , TBBPA (reactive) , Other; chemical name:, CAS #:			
	Alt. 2			
	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according		ш	Ш
	ISO 1043-4:			
P7.18	Alt. 1			
	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%:			
	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:			
D7.40		-	<u> </u>	Щ
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)		Ш	Ш
P7.20	Of total plastic parts' weight >25g, recycled material content is 0%.	-		
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.			
P7.22	Light sources are free from mercury			
Do	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg			
P8.1*	Batteries Battery chemical composition: Manganese dioxide lithium			
			Ш	
P8.2	Batteries meet the requirements of the following voluntary program/s: <i>European eco-label (EU Flower)</i>			\boxtimes

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	oduct environmental attributes - Market requirements (continued) Requirement me					met		
Item						Yes	s No	n.a.
P9 Energy consur	•							
9.1 For the product	the following power levels	or energy consump	tions are report	ed:				
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level 230 V AC	at	Reference / Standa modes and test method		energy	
Operating Mode	W	W	615.9 W					
Ready Mode	W	W	97.2 W					
Sleep Mode	W	W	0.72 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.)	1							
PTEC * Typical Energy Consumptio	W	W	W					\boxtimes
Typical Energy Consumption	'							
TEC *	kWh/week	kWh/week	1.759 kWh/wee	ek				
Typical Energy Consumptio	n							
ETEC *	kWh/year	kWh/year	84.432 kWh/ye	ear				
Annual Energy Consumptio	n							
Display resolution* :	lay resolution*: Megapixels							
•	refault time to enter energy save mode: 1 minutes				H			
•	ut the energy save functio	on is provided with th	ne product					片
				n/o:			_#	<u> </u>
ENERGY STAR	ets the energy requirements version: 2.0 Produ	uct category: <i>Printer</i>		11/5.				
Others specify: P10 Emissions								
	n – Declared according to	ISO 9296						
P10.1 Mode	Mode description		Declared		Declared A-weigl			
			A-weighted sound power		sound pressure level $\it I$	$_{pAm}$ (dE	3)	
			level L_{WAd} (B)	Ope	rator position 🔀 🛮 Bys	tander po	ositions	
			,,,,,,		Desktop (only	if produc	ct is not	
						erator att		
Idle	* Stand-by	,	* 3.4		18.9			
Operation	* Operating Mode	•	* 7.2		63.3			
Other mode								
Measured acco	Measured according to: ISO7779 LECMA-74							
	Other	(only if not covered	by ECMA-74 wit	h L _{pAn}	measurement distance	m))	
P10.2 The product me	ets the acoustic noise req	uirements of the foll	owing voluntary	progra	am/s: Blue Angel Nordic Swa	n 🔲		

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Product	environmental attributes - Market requirements (continued)	Requirer	ment	met	
Item		Yes	No	n.a.	
	Chemical emissions from printing products				
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard , other specify: RAL-UZ171	\boxtimes			
P10.4	Typical emission rate (print phase) is (mg/h):			\boxtimes	
	Dust 0.65 Ozone 0.23 Styrene 0.08 Benzene <0.01 TVOC 2.18				
P10.5	Chemical emission requirements of the following voluntary program/s are met for:				
	Dust ✓ Ozone ✓ Styrene ✓ Benzene ✓ TVOC ✓ Blue Angel	\boxtimes	Ш	Ш	
	Nordic Swan			\boxtimes	
	Electromagnetic emissions				
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary			\boxtimes	
	program/s:				
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).	\boxtimes			
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements EN12281.	of 🔀			
P11.3*	2-sided (duplex) printing/copying is an integrated product function.				
P12	Ergonomics for computing products				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.				
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.				
P13	Packaging and documentation				
P13.1*	Product packaging material type(s): Corrugated Paper weight (kg): 3.017				
	Product packaging material type(s): <i>Plastic</i> weight (kg): <i>0.854</i>				
P13.2*	Product packaging material type(s): weight (kg): Product plastic packaging is free from PVC.	<u> </u>	$\overline{}$	$\overline{}$	
				井	
P13.3*	Specify media for user and product documentation (tick box): Electronic , Paper , Other .			Ш	
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled				
_	fiber: %				
Rev. P13.5	User and product documentation do not contain chlorine bleached paper				
P14	Additional information (See Note B ⁴)				
	This product is designed to utilise recycled plastic materials wherever available.				

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