

## 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	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 statements given in this declaration.		
Type of product *	Multifunction	
Commercial name *	MP C4503ZSP	
Model number *	Aficio MP C4503ZSP	
Issue date *	12 August 2013	
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		Requireme	nt met
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration		
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 *	Aficio MP C4503ZSP		
Issue date *	12 August 2013	Logo	RICOH

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 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).  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 (see legal reference).  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):	.a.
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), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (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).  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 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).  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 (see legal reference).  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):	<u> </u>
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P1.10* REACH Article 33 information about substances in articles is available at (add URL or mail contact):	
ama@viach auvana aam	
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)	_
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).	T
P3.2* The product complies with legally required standards for electromagnetic compatibility (see legal reference).	┭
P3.3* If product is intended for connection to a public telecom network or contains a radio transmitter, it complies	Ť
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).	
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).	_
	<u></u>
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).	$\overline{}$
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.	_

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

Model number *	Aficio MP C4503ZSP		
Issue date *	12 August 2013	Logo	<b>RICOH</b>

Product	environmental attributes - Market requirements - Environmental conscious design	Require	ment	met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	$\boxtimes$		
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable			
P7.2*	Plastic materials in covers/housing have no surface coating.		∺	∺
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		H	∺
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		H	∺
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		旹	∺
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).			
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives		П	
P7.8*	Upgrading can be done using commonly available tools		Ħ	Ħ
P7.9.	Spare parts are available after end of production for: <b>7</b> years		Ħ	Ħ
P7.10	Service is available after end of production for: 7 years		Ħ	Ħ
	Material and substance requirements			
P7.11*	Product cover/housing material type:			
	Material type: PC+ABC Material type: PC+PS 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.			
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B <sup>2</sup> )			
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking:			
P7.17	Alt. 1			
	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			
D7.40	ISO 1043-4:			
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in	ı 🗆		
	concentrations above 0.1%:	. П	ш	ш
	Comment: No legal limits exist, this is a market requirement.			
	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:			_
			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%. [pls see P14 for additional information]			
P7.21	Of total plastic 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		Ш	
P8	Batteries and max. mercury content per lamp.			
P8.1*	Battery chemical composition: Manganese dioxide lithium			
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 e	Product environmental attributes - Market requirements (continued) Requirement met					
Item						
P9	Energy consumpti					
9.1	For the product the	following power levels	or energy consump	tions are report	<u>:ed:</u>	
Energy mod	de *	Power level at 100 V AC	Power level at 115 V AC	Power level 230 V AC	at	Reference / Standard for energy modes and test method *
Operating	Mode	W	W	Mono 667.3 V Colour 758.3 V		
Ready Mod	de	W	W	100 W		
Low Powe	r Mode	W	W	<b>67.6</b> W		
Sleep Mod	le	W	W	<i>0.88</i> W		
		W	W	W		
		W	W	W		
EPS No-loa		W	W	W		
charger plu outlet but d the product	ower supply / gged in the wall isconnected from i.)					
PTEC * Typical Ene	ergy Consumption	W	W	W		
TEC * Typical Ene	ergy Consumption	kWh/week	kWh/week	1.984 kWh/we	ek	
ETEC * Annual Ene	ergy Consumption	kWh/year	kWh/year	<b>95.232</b> kWh/ye	ear	
Display res	olution* : Meg	gapixels				
Print Speed	d * : <b>45</b> Images	s per minute				
Default time	e to enter energy sav	ve mode: 1 minutes				
P9.2*	Information about th	ne energy save functio	n is provided with th	e product.		
P9.3*		the energy requirement rersion: 1.1 Tier: 2 Pro			n/s:	
P10	Emissions					
		Declared according to	ISO 9296			
P10.1	Mode M	lode description		Declared A-weighted sound power		Declared A-weighted sound pressure level $L_{p  ext{Am}}$ (dB)
				level $L_{W\!Ad}$ (B)	Ope	rator position Bystander positions  Desktop (only if product is not operator attended)
	Idle *	Stand-by	*	* <b>3.5</b>		19.4
	Operation *	Operating Mode	*	6.6		51.2
	Other mode					
	Measured according		ECMA-74 (only if not covered	by ECMA-74 wit	h L <sub>pAr</sub>	<sub>n</sub> measurement distance m)
P10.2	P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:  Blue Angel					

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Product	environmental attributes - Market requirements (continued)	equire	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 (mono 0.85 colour 1.1) Ozone (mono < limit of detection colour < limit of detection)			
	Styrene (mono < limit of detection colour < limit of detection) Benzene (mono < limit of detection colour < limit of detection) TVOC (mono 1.5 colour 7.8)			
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 program/s:			$\boxtimes$
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.	$\boxtimes$		
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.			$\boxtimes$
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.			$\boxtimes$
P13	Packaging and documentation			
P13.1*	Product packaging material type(s): Corrugated Paper weight (kg): 11.363			
	Product packaging material type(s): <i>Plastic</i> weight (kg): <i>1.078</i> Product packaging material type(s): weight (kg):			
P13.2*	Product plastic packaging is free from PVC.			
P13.3*	Specify media for user and product documentation (tick box):			井
1 13.3	Electronic , Paper , Other			
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: %			
Rev.	User and product documentation do not contain chlorine bleached paper	$\boxtimes$		
P13.5	Additional information (See Note B4)			
P14	This product is designed to utilise recycled plastic materials wherever available.			
	This product is designed to dulise recycled plastic materials wherever available.			

Note 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