

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 *	Lenovo	Logo
Company name *	Lenovo	
Contact information *	Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5J3 Morrisville, North Carolina 27560 alcarter@lenovo.com	lenovo.
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment	t.html
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 *	lotebook PC			
Commercial name *	Lenovo G500s			
Model number *	20245;80AD			
Issue date *	2013-4-27			
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	\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 *	Lenovo G500s		
Issue date *	2013-4-27	Logo	lenovo.

Product	oduct environmental attributes - Legal requirements			t 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*	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values. 4* Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated			
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): http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.html#environment	\boxtimes		
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*				
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).			
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 with legally required standards for radio and telecommunication devices (see legal reference).	\boxtimes		
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	\square		
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).			\square
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.	d 🔀		
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 Montrea Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	I 🔯		

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

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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	\boxtimes			
P7.2*	Plastic materials in covers/housing have no surface coating.	\boxtimes			
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	\boxtimes			
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		$\overline{\sqcap}$	$\overline{\Box}$	
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	$\overline{\boxtimes}$	$\overline{\sqcap}$	Ī	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ	Ī	
	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: 5 years			Ħ	
P7.10	Service is available after end of production for: 5 years			Ħ	
	Material and substance requirements				
P7.11*	Product cover/housing material type:				
	Material type: <i>PC+ABS-FR(40)</i> Material type: Material type:				
P7.12	Electrical cable insulation materials of power cables are PVC free.		\boxtimes		
P7.13	Electrical cable insulation materials of signal cables are PVC free	$\overline{}$		$\overline{}$	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.			\overline{H}	
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See				
F1.13	Note B2)			Ш	
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:				
_	Marking: <i>FR</i> (40)				
P7.17	Alt. 1				
	Chemical specifications of flame retardants in printed circuit boards >25g (without components):		Ш		
	TBBPA (additive) ☐, TBBPA (reactive) ☒, Other; chemical name: , CAS #:				
	Alt. 2				
	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according				
	ISO 1043-4: Brominated Epoxy Resin See P14				
P7.18	Alt. 1				
	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in				
	concentrations above 0.1%:				
	Comment: No legal limits exist, this is a market requirement. Provide a list of all used flame retardants including MSDS for each flame retardant. The list must contain				
	complete chemical name, CAS number and supplier.				
	1. Chemical name: , CAS #: , Supplier:				
	2. Chemical name: , CAS #: , Supplier:				
	3. Chemical name: , CAS #: , Supplier:				
	Alt. 2	\boxtimes	Ш	Ш	
	Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	FR(40) Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45,		$\overline{}$		
17.10	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 3.4%.				
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sources are free from mercury	\boxtimes			
P8	Batteries				
P8.1*	Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide				
P8 2	Batteries meet the requirements of the following voluntary program/s: US PRPC				

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 met			

Product environmental a	duct environmental attributes - Market requirements (continued) Requirement met					met
Item	Yes No n.					n.a.
P9 Energy consumption						
	9.1 For the product the following power levels or energy consumptions are reported: See P14 The product is shipped w/ WOL Enabled.					
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standar and test method *	rd for energy modes	
Peak (On-max)	90 W	90 W	90 W	Full load		
Category B	Category B					
Idle State - WOL Enabled	7.235 W	7.259 W	7.574 W	Use for Energy Star	V5 registration(P _{idle})	
Sleep (S3) - WOL Enabled	0.827 W	0.836 W	0.929W	Use for Energy Star	V5 registration(P _{sleep})	
Sleep (S3) - WOL Disabled	0.827 W	0.836 W	0.928 W	Reference		
Off (S5) - WOL Enabled	0.397 W	0.400 W	0.439 W	Use for Energy Star	V5 registration(P _{off})	
Off (S5) - WOL Disabled	0.396W	0.400 W	0.438 W	Use for EuP		
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	0.085 W	0.086 W	0.194 W			
TEC Typical Energy Consumption	kWh/week	kWh/week	kWh/week			
ETEC * Annual Energy Consumption	21.824 kWh/year	21.911 kWh/year	23.026 kWh/year	$E_{TEC} = (8760/1000) x$ 0.1 + $P_{idle} x$ 0.3)	$(P_{off} \times 0.6 + P_{sleep} \times$	
	P _{off} : Off Mode(S5) - I	WOL Enabled; P _{sleep} : S	Sleep Mode(S3) - WO	L Enabled; P _{idle} : Idle State	e - WOL Enabled	
Display resolution : 1280*80	00 Megapixels					
Print Speed :	Images per minu	ite				
Default time to enter energy s	ave mode: 25 minute	es				
P9.2* Information about	the energy save fund	ction is provided with	the product.			
ENERGY STAR® Others specify: E	s the energy requirer version: Version 5.0 nergy Star for Exter	0 dated July 1, 2009	Product category:	. B		
P10 Emissions Noise emission	 Declared according 	to ISO 9296				
	Mode description	10 100 9290	Declared A-weighted sound power	Declared A sound pressure le	evel $L_{p{\sf Am}}$ (dB)	
			level $L_{W\!Ad}$ (B)	Operator position Desktop or Desk side	Bystander positions (only if product is not operator attended)	
Idle	* HDD: Idle		* 3.0	24		
Operation	* HDD: Operating		* 3.1	24	.8	
Other mode		7 = 0.11 = :				-
Measured accord	ing to: X ISO7779 C	ECMA-74 (only if not cover	ed by ECMA-74 wit	h L _{pAm} measurement di	stance m)	
P10.2 The product meet	s the acoustic noise				\Box \Box	\square

Model no	umber *	Lenovo G500s				
Issue da	te *	2013-4-27	Logo	leno	VO.	
Product	t environr	mental attributes - Market requirements (continued)		Require	ment	met
Item				Yes	No	n.a.
	Chemic	al emissions from printing products				
P10.3*		formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:				\boxtimes
P10.4		emission rate (print phase) is (mg/h):				$\overline{\boxtimes}$
		Dust Ozone Styrene Benzene TVOC				
P10.5	Chemica	al emission requirements of the following voluntary program/s are met for :				\boxtimes
	[Dust Ozone Styrene Benzene	TVOC 🗌	_		
		magnetic emissions				
P10.6		er display meets the requirement for low frequency electromagnetic fields of the foll /s: MPR-II	owing voluntary			
P11		nable materials for printing products				
P11.1*	A Safety	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requ	ired (see P4.3).			\boxtimes
P11.2*	Paper c EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets th 1.	e requirements of	of		
P11.3*	2-sided	(duplex) printing/copying is an integrated product function.				\boxtimes
P12	Ergono	mics for computing products				
P12.1*	The disp	play meets the ergonomic requirements of ISO 9241-307 for visual display technolo	gies.	\boxtimes		
P12.2*	The phy	sical input device meets the requirements of ISO 9995 and ISO 9241-410.		\boxtimes		
P13	Packagi	ing and documentation				
P13.1*	Product Product	packaging material type(s): Corrugated Carton weight (kg): 0.395 packaging material type(s): Polyethylene Cushions weight (kg): 0.106 packaging material type(s): Others weight (kg): 0.230				
P13.2*	Product	plastic packaging is free from PVC.		\boxtimes		
P13.3*		media for user and product documentation (tick box): ic , Paper , Other				
P13.4*		er user and product documentation, please specify contained percentage of post-co % (Japan only 70%)	nsumer recycled			
P14		nal information (See Note B4)				
B7.47	informat knowled provided informat		nt is provided bas ate such informati account Represer	ed on sup on. The in	plier's iforma	;
P7.17		t does not contain free TBBPA in printed circuit boards(without components):		· Infame -		
P9		ergy Star Qualified (insert appropriate Product type; i.e. Desktop, Notebook, e ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls (insert appropriate w		intorma	uon:	

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