

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			
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Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html			
Additional information	The latest version of this document can be found at http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html			

conforms to the statemen	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 *	Notebook PC			
Commercial name *	Lenovo IdeaPad U510			
Model number *	0191;4941			
Issue date *	12-8-13			
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 contro such as organized by IT-Företagen (see www.itecodeclaration.org).		

Model number *	Lenovo IdeaPad U510
Issue date *	2012-8-13

Logo

lenovo

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 Note B1)				
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	\boxtimes			
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				
D4 4	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				
1 1.7	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).			\square	
	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			
	microgram/cm ² /week (see legal reference).				
D / / at	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				
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)	\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, medica or data integrity reasons do not have to be "easily removable". (See legal reference)	e 🖂			
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).				
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).	3			
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).			\square	
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 an 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).	\square			
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.				

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

Model n	umber *	Lenovo IdeaPad U510				
Issue da	ate *	le	lenovo			
Produc	t environ	mental attributes - Market requirements - Environmental conscious desigr	Re	auire	ment	met
Item		atory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P6	Treatme	nt information				
P6.1*	Informati	on for recyclers/treatment facilities is available (see legal reference).		\square		
P7	Design Disasse	mbly, recycling				
P7.1*	Parts that	t have to be treated separately are easily separable		\boxtimes		
P7.2*	Plastic m	naterials in covers/housing have no surface coating.		\boxtimes		
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.		\boxtimes		
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly availab	e tools.	\boxtimes		
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).		\boxtimes		
	Product	lifetime				
P7.7*	Upgradir	g can be done e.g. with processor, memory, cards or drives		\boxtimes		
P7.8*	Upgradir	g can be done using commonly available tools		\boxtimes		
P7.9.	Spare pa	rts are available after end of production for: 5 years				
P7.10	Service i	s available after end of production for: 5 years				
		and substance requirements				
P7.11*		cover/housing material type:				
D7 40	Material	type: PC+ABS-FR(40) Material type: Material type:				
P7.12		I cable insulation materials of power cables are PVC free.		<u>Ц</u>		_Ц_
P7.13		I cable insulation materials of signal cables are PVC free				<u> </u>
P7.14		/housing plastic parts >25g are free from chlorine and bromine.			<u>Ц</u>	<u> </u>
P7.15	Note B2		2-21. (See			
P7.16	Marking:	tarded plastic parts >25g in covers / housings are marked according ISO 1043-4: FR(40)				
P7.17		I specifications of flame retardants in printed circuit boards >25g (without components): additive) , TBBPA (reactive) , Other; chemical name: , CAS #:				
	ISO 104	I specifications of flame retardants in printed circuit boards (without components) >25g ac 3-4: Brominated Epoxy Resin See P14	cording			
P7.18	concentr	etarded plastic parts >25g contain the following flame retardant substances/prepa ations above 0.1%:	rations in			
	Provide complete 1. Chem	 it: No legal limits exist, this is a market requirement. a list of all used flame retardants including MSDS for each flame retardant. The list mu chemical name, CAS number and supplier. ical name: , CAS #: , Supplier: ical name: , CAS #: , Supplier: 	st contain			
	Alt. 2	ical name: , CAS #: , Supplier: I specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	Plastic p	arts >25g are free from flame retardant substances/ preparations above 0.1% classified a 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	s R45,			
P7.20		lastic parts' weight >25g, recycled material content is 2.7%.				
P7.21	Of total p	lastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sou	Irces are free from mercury		\boxtimes		
P8	Batterie					
P8.1*		hemical composition: Lithium Ion/Lithium Manganese Dioxide				
P8.2	Batteries	meet the requirements of the following voluntary program/s: US RBRC				

Annex B of ECMA-370 4th edition, June 2009

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.

Model nu	Imber *	eno	vo IdeaPad	d U510						
Issue dat	te * 20	1 2-8- 1	3				Logo	leno	vo	
Product	environmen	ntal at	tributes - Market	requirements (co	ontinued)			Require	ment	met
Item				•	•			Yes	No	n.a.
P9	Energy con	sumpt	ion							
9.1			following power lev ped w/ WOL Enable	els or energy consu ed.	mptions are reported	ed: See P14		\boxtimes		
Energy m	ode *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference and test me		ard for energy m	odes	
Peak (On-max)			65W	65 W	65 W	Full load				
Catego	ry B/A									
Idle State	e - WOL Enabl	led	7.455/6.878W	7.46/6.892W	8.72/7.511 W	Use for En	ergy Star	r V5 registration(P _{idle})	
Sleep (S3	3) - WOL Enab	oled	1.032/0.735 W	1.035/0.731 W	1.106/0.755W	Use for En	ergy Star	r V5 registration(P _{sleep})	
Sleep (S3	3) - WOL Disal	bled	0.923/0.619 W	0.924/0.617 W	0.991/0.638 W	Reference				
Off (S5) -	WOL Enabled	d	0.49/0.513 W	0.495/0.512 W	0.545/0.536 W	Use for En	ergy Star	r V5 registration(P _{off})	
Off (S5) -	WOL Disable	d	0.38/0.397W	0.383/0.395 W	0.431/0.422 W	Use for Eu	Р			
charger p	power supply / lugged in the w disconnected f	vall	0.129/0.15 W	0.133/0.152 W	0.174/0.184 W					
TEC Typical Ei	nergy Consum	ption	kWh/week	kWh/week	kWh/week					
Etec * Annual Er	nergy Consum	ption	23.071/21.416 kWh/year	23.113/21.444 kWh/year	26.750/23.218 kWh/year	$E_{TEC} = (876)$ 0.1 + P_{idle} x		x (P _{off} x 0.6 + P _s	_{leep} X	
			Poff: Off Mode(S5) - WOL Enabled; Psleep: Sleep Mode(S3) - WO			L Enabled; Pidl	e: Idle Stat	te - WOL Enabled		
Display re	esolution : 12	80*800	Megapixels							
Print Spee	ed :		Images per minu	te						
		erov sa	ave mode: 25 minutes							
P9.2*				tion is provided with	the product.			\square		님
P9.3*	ENERGY ST Others spec	TAR®	version: Version 5.0	nents of the following 0 dated July 1, 2009 nal Power Supplies	Product category	: A				
P10	Emissions Noise emissions	sion –	Declared according	to ISO 9296						
P10.1	Mode		Node description		Declared A-weighted sound power level <i>L_{WAd}</i> (B)	sound poperator pos	oressure l iition 🔀 ktop 🔀	A-weighted level $L_{p Am}$ (dB) Bystander pos (only if product	is not	
	Idle	*	HDD: Idle		* 2.6			operator atter	nded)	
Operation '		*	HDD: Operating		* 2.6	20.0				
	Other mode Measured ad	I	•	ECMA-74						
D10.2			Other		ed by ECMA-74 wit		urement d	listance m)	
P10.2	The product	meets	the acoustic hoise	requirements of the	rollowing voluntary	program/s:				\square

Model nu	mber *	Lenovo IdeaPad U510				
Issue date	e *	2012-8-13 Logo	len	OL	10	
Product	environr	nental attributes - Market requirements (continued)	Req	uirem	nent	met
Item			Ý	es	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	Typical e	emission rate (print phase) is (mg/h):				\square
		Dust Ozone Styrene Benzene TVOC				
P10.5		al emission requirements of the following voluntary program/s are met for :	[\boxtimes
		Dust Ozone Styrene Benzene TVOC				
		nagnetic emissions			_	
P10.6	program	er display meets the requirement for low frequency electromagnetic fields of the following voluntary /s: MPR-II		\triangleleft		
P11		nable 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 c EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets the requirements 1.	of			\square
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 technologies.		\times		
P12.2*	The phy	sical input device meets the requirements of ISO 9995 and ISO 9241-410.		\triangleleft		
P13	Packagi	ng and documentation				
P13.1*	Product Product	packaging material type(s): <i>Corrugated Carton</i> weight (kg): <i>0.378</i> packaging material type(s): <i>Polyethylene Cushions</i> weight (kg): <i>0.058</i> packaging material type(s): <i>Others</i> weight (kg): <i>0.230</i>				
P13.2*		plastic packaging is free from PVC.		\triangleleft		
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-consumer recycle % (Japan only 70%)	d			
P14		nal information (See Note B4)				
	informat knowled provided informat		ased on ation. Th	suppl	lier's ormat	
P7.17		t does not contain free TBBPA in printed circuit boards(without components)>25g.				
P9		ergy Star Qualified (insert appropriate Product type; i.e. Desktop, Notebook, etc.) for the late ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls (insert appropriate web url)	st infol	matic	on:	

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