

## 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 *	Notebook PC				
Commercial name *	Lenovo IdeaPad S400 Touch				
Model number *	20283;80A1				
Issue date *	2012-4-17				
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	ent 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 IdeaPad S400 Touch		
Issue date *	2013-4-17	Logo	lenovo.

<b>Product</b>	environmental attributes - Legal requirements	Require	ment	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), 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).			
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)			$\boxtimes$
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			
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).	$\boxtimes$		
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).			
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	$\boxtimes$	$\Box$	
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).			
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.	al 🔀		

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

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Product	Product environmental attributes - Market requirements - Environmental conscious design					
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).	$\boxtimes$			<u></u>	
P7	Design Disassembly, recycling					
P7.1*	Parts that have to be treated separately are easily separable	X	П		T	
P7.2*	Plastic materials in covers/housing have no surface coating.		Ħ		Ť	
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		Ħ		寸	
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		H		Ť	
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		H	_	十	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		ᅢ		Ť	
	Product lifetime				_	
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	$\square$		Г	┰	
P7.8*	Upgrading can be done using commonly available tools	$\boxtimes$	+		╡	
P7.9.				_	┿	
P7.10	Spare parts are available after end of production for: 5 years				┽	
1 7.10	Service is available after end of production for: 5 years					
P7.11*	Material and substance requirements  Product cover/housing material type:					
	Material type: PC+ABS-FR(40) Material type: Material type:					
P7.12	Electrical cable insulation materials of power cables are PVC free.		$\boxtimes$		T	
P7.13	Electrical cable insulation materials of signal cables are PVC free	Ħ			Ť	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	$\overline{\boxtimes}$	$\overline{\Box}$		┿	
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See			-	芐	
	Note B2)	ш			_	
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: FR(40)				]	
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 ISO 1043-4: <i>Brominated Epoxy Resin See P14</i>				]	
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 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, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)				]	
P7.20	Of total plastic parts' weight >25g, recycled material content is <b>5.4%</b> .					
P7.21	Of total plastic parts' weight >25g, biobased material content is <b>0</b> %.					
P7.22	Light sources are free from mercury	X			T	
P8	Batteries			_	Ė	
P8.1*	Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide				Ī	
P8.2	Batteries meet the requirements of the following voluntary program/s: US RBRC				1	

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 enviro	nmental at	ttributes - Market	requirements (co	ontinued)	Requiremen	t met
Item				•	Yes No	n.a.
	y consump					
The p		e following power lev oped w/ WOL Enable		mptions are reporte		
Energy mode *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	
Peak (On-max)		<b>40</b> W	<b>40</b> W	<b>40</b> W	Full load	
Category A		1				· ·
Idle State - WOL	Enabled	<b>4.91</b> W	<b>5.19</b> W	<b>4.89</b> W	Use for Energy Star V5 registration(P <sub>idle</sub> )	
Sleep (S3) - WOL	. Enabled	0.56 W	0.54 W	<b>0.53</b> ₩	Use for Energy Star V5 registration(P <sub>sleep</sub> ,	
Sleep (S3) - WOL	. Disabled	<i>0.671</i> W	<b>0.651</b> W	<b>0.647</b> W	Reference	
Off (S5) - WOL E	nabled	0.40 W	0.39 W	0.39 W	Use for Energy Star V5 registration(Poff)	
Off (S5) - WOL D	isabled	<i>0.409</i> W	<b>0.394</b> W	<b>0.406</b> W	Use for EuP	
EPS No-load (External power si charger plugged ir outlet but disconni the product.)	n the wall	0.146 W	0.145 W	0.159 W		
TEC Typical Energy Co	onsumption	kWh/week	kWh/week	kWh/week		
ETEC * Annual Energy Consumption		15.50 kWh/year	16.16 kWh/year	15.37 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{sleep})$ 0.1 + $P_{idle} \times 0.3$	
		P <sub>off</sub> : Off Mode(S5) - V	WOL Enabled; P <sub>sleep</sub> : S	Sleep Mode(S3) - WOL	Enabled; P <sub>idle</sub> : Idle State - WOL Enabled	•
Display resolution	1280*80	0 Megapixels				
Print Speed	:	Images per minu	te			
Default time to en	ter energy sa	ave mode: 25 minute	S			
P9.2* Inform	ation about	the energy save fund	ction is provided with	the product.		
ENER Others	GY STAR® s specify: <i>Er</i>	s the energy requirent version: Version 5.0 pergy Star for Extern	dated July 1, 2009	Product category:	A 🖂 🗆	
P10 Emiss		- Declared according	to ISO 9296			
P10.1 Mode		Mode description	10 100 9290	Declared A-weighted sound power	Declared A-weighted sound pressure level $L_{p{\sf Am}}$ (dB)	
					Operator position Bystander positions  Desktop (only if product is no operator attended)	t
Idle						
Operation * HDD: Operating			* 3.0	26.1		
	mode	<u> </u>	7			_
Measu	ured accordii	ng to: ISO7779 Dother	ECMA-74  (only if not cover	ed by FCMA-74 with	h L <sub>pAm</sub> measurement distance m)	
P10.2 The p	roduct meets	s the acoustic noise			,	

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Product environmental a	Product environmental attributes - Market requirements (continued) Requirement met				
Item				Yes No	n.a.
P9 Energy consum					
	ne following power lev ipped w/ WOL Enable		mptions are reporte	ed: See P14	
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for energy modes and test method *	
Peak (On-max)	<b>65</b> W	<b>65</b> W	<b>65</b> W	Full load	
Category B	1	•	•		ı
Idle State - WOL Enabled	<b>4.85</b> W	<b>5.30</b> W	<b>5.29</b> W	Use for Energy Star V5 registration(P <sub>idle</sub> )	
Sleep (S3) - WOL Enabled	0.63 W	0.62 W	<b>0.64</b> W	Use for Energy Star V5 registration(P <sub>sleep</sub> )	
Sleep (S3) - WOL Disabled	0.605 W	0.601 W	<i>0.656</i> W	Reference	
Off (S5) - WOL Enabled	0.37 W	0.37 W	0.40 W	Use for Energy Star V5 registration(Poff)	
Off (S5) - WOL Disabled	0.350W	0.354 W	0.397 W	Use for EuP	
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	0.134 W	0.137 W	0.176 W		
TEC Typical Energy Consumption	kWh/week	kWh/week	kWh/week		
ETEC * Annual Energy Consumption	<b>15.24</b> kWh/year	16.42 kWh/year	16.57 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{sleep} \times 0.1 + P_{idle} \times 0.3)$	
	P <sub>off</sub> : Off Mode(S5) - I	WOL Enabled; P <sub>sleep</sub> : S	Sleep Mode(S3) - WO	Enabled; P <sub>idle</sub> : Idle State - WOL Enabled	•
Display resolution : 1280*8	00 Megapixels				
Print Speed :	Images per minu	ite			$\boxtimes$
Default time to enter energy	save mode: 25 minute	es			
P9.2* Information abou	the energy save fund	ction is provided with	the product.		
ENERGY STAR® Others specify: <b>E</b>	ts the energy requirer version: Version 5.6 nergy Star for Exter	0 dated July 1, 2009	Product category:	B 🔲	
P10 Emissions Noise emission	<ul> <li>Declared according</li> </ul>	to ISO 9296			
P10.1 Mode	Mode description	100 0230	Declared A-weighted sound power	Declared A-weighted sound pressure level $L_{p \text{Am}}$ (dB)	
			level $L_{WAd}$ (B)	Operator position  Desktop (only if product is not operator attended)  Operator positions  (only if product is not operator attended)	
Idle * HDD: Idle * 3.0		23.7			
Operation	* HDD: Operating		* 3.0	26.1	
Other mode					
Measured accord	ling to: X ISO7779 C	ECMA-74	ed by ECMA-74 wit	h L <sub>pAm</sub> measurement distance m)	
P10.2 The product mee	ts the acoustic noise				

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Product	t environi	mental attributes - Market requirements (continued)	R	equire	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 :				$\boxtimes$
	I	Dust Ozone Styrene Benzene TVO				
		magnetic emissions				
P10.6		er display meets the requirement for low frequency electromagnetic fields of the following /s: MPR-II	g 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 required	see P4.3).			$\boxtimes$
P11.2*	Paper c EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets the rec 1.	uirements 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 technologies.		$\boxtimes$		
P12.2*	The phy	sical input device meets the requirements of ISO 9995 and ISO 9241-410.		$\boxtimes$		
P13	Packag	ing and documentation				
P13.1*	Product Product	packaging material type(s): Corrugated Carton weight (kg): 0.350 packaging material type(s): Polyethylene Cushions weight (kg): 0.000 packaging material type(s): Others weight (kg): 0.193				
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-consun (% (Japan only 70%)	ner recycled			
P14		nal information (See Note B4)				
	informat knowled provided informat		provided based sch information nt Representa	on sup	plier's forma	
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.) f ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls (insert appropriate web u		nformat	ion:	

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