

## 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 S410p Touch					
Model number *	20297;80BM					
Issue date *	2013-08-07					
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	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 contro such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	Lenovo IdeaPad S410p Touch		
Issue date *	2013-08-07	Logo	lenovo

Product	t environmental attributes - Legal requirements	Require	ement	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.	$\square$		
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).	$\boxtimes$		
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 aromatic amines. (See legal reference and Note B1)			$\square$
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/cm <sup>2</sup> /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	$\square$		
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)			
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).	$\boxtimes$		
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).	$\square$		
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).			$\boxtimes$
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 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).	$\boxtimes$		
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 %.

Model n	umber *	Lenovo IdeaPad S410p Touch				
Issue da	ate *	2013-08-07 Logo	le	ПС	vo	),
Produc	t environ	mental attributes - Market requirements - Environmental conscious design	Rea	lire	ment	met
Item		atory to fill in. Additional information regarding each item may be found under P14.		es	No	n.a.
P6	Treatme	nt information				
P6.1*	Informat	ion for recyclers/treatment facilities is available (see legal reference).		$\boxtimes$		
P7	Design Disasse	mbly, recycling				
P7.1*	Parts that	at have to be treated separately are easily separable		$\triangleleft$		
P7.2*	Plastic n	naterials in covers/housing have no surface coating.		$\triangleleft$		
P7.3*	Plastic p	arts >100g consist of one material or of easily separable materials.		$\triangleleft$		
P7.4*	Plastic p	arts >25g have material codes according to ISO 11469 referring ISO 1043.		$\overline{\mathbf{A}}$		
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available to	ols.			
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).			Π	Ē
	Product	lifetime				
P7.7*	Upgradir	ng can be done e.g. with processor, memory, cards or drives		$\triangleleft$		
P7.8*	Upgradir	ng can be done using commonly available tools		$\triangleleft$		
P7.9.	Spare pa	arts are available after end of production for: 5 years				
P7.10		s available after end of production for: 5 years				一一
	Material	and substance requirements				
P7.11*		cover/housing material type:				
		type: PC+ABS-FR(40) Material type: Material type:				
P7.12		I cable insulation materials of power cables are PVC free.				
P7.13		I cable insulation materials of signal cables are PVC free			$\square$	
P7.14		/housing plastic parts >25g are free from chlorine and bromine.		$\triangleleft$		
P7.15	All printe Note B2	ed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21.	(See			
P7.16	Marking:	etarded plastic parts >25g in covers / housings are marked according ISO 1043-4: FR(40)	[	$\triangleleft$		
P7.17	TBBPA	additive) , TBBPA (reactive) , Other; chemical name: , CAS #:				
<b>DT</b> 10	ISO 104	al specifications of flame retardants in printed circuit boards (without components) >25g accord 3-4: Brominated Epoxy Resin See P14	ding			
P7.18	concenti	etarded plastic parts >25g contain the following flame retardant substances/preparatio ations above 0.1%:	ns in [			
	Provide complete 1. Chem	<ul> <li>nt: No legal limits exist, this is a market requirement.</li> <li>a list of all used flame retardants including MSDS for each flame retardant. The list must can be chemical name, CAS number and supplier.</li> <li>ical name: , CAS #: , Supplier:</li> <li>ical name: , CAS #: , Supplier:</li> </ul>	ontain			
	Alt. 2	ical name: , CAS #: , Supplier: Il 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 as R4 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	15,	$\triangleleft$		
P7.20		plastic parts' weight >25g, recycled material content is <b>4.0%</b> .				
P7.21		plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sou	Irces are free from mercury		$\triangleleft$		
P8	Batterie					
P8.1*	-	chemical 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 4<sup>th</sup> 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 nun	<sup>nber*</sup> Lenovo IdeaPad S410p Touch								
Issue date	*	2013-08-				Logo	lenovo		
	Product environmental attributes - Market requirements (continued) Requirement met								
	environn	nental at	tributes - Market	requirements (co	ontinued)		Requirement Yes No		
Item P9	Energy	consumn	tion				Yes No	n.a.	
<b>9</b> .1									
0.1	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 / Standard and test method *	for energy modes			
Peak (On-	max)		<b>45</b> W	<b>45</b> W	<b>45</b> W	Full load			
Category	y A		1	I		1	1		
Idle State	- WOL En	abled	4.260W	4.080W	3.984 W	Use for Energy Star V5	registration(P <sub>idle</sub> )		
Sleep (S3)	- WOL E	nabled	0.780 W	0.768 W	0.792W	Use for Energy Star V5	registration(P <sub>sleep</sub> )		
Sleep (S3)	- WOL D	isabled	0.73 W	0.72 W	0.74 W	Reference			
Off (S5) - V	NOL Ena	bled	0.54 W	0.54 W	0.57 W	Use for Energy Star V5	registration(Poff)		
Off (S5) - V	NOL Disa	bled	0.264W	0.276 W	0.300 W	Use for EuP			
EPS No-loa	ad		W	W	W				
charger plu	(External power supply / charger plugged in the wall outlet but disconnected from								
TEC			kWh/week	kWh/week	kWh/week				
Typical Ene	ergy Cons	umption							
ETEC * Annual Ene	ergy Cons	umption	13.27 kWh/year	12.85 kWh/year	12.74 kWh/year	$E_{TEC} = (8760/1000) \times (P_{0.1} + P_{idle} \times 0.3)$	$P_{off} \times 0.6 + P_{sleep} \times$		
			Poff: Off Mode(S5) - 1	WOL Enabled; P <sub>sleep</sub> : S	Sleep Mode(S3) - WOL	Enabled; P <sub>idle</sub> : Idle State - V	VOL Enabled	L	
Display res	olution	1366*76	8 Megapixels						
Print Speed	d :	:	Images per minu	te					
		enerav sa	ave mode: 25 minute						
P9.2*			the energy save fund		the product.			╘	
P9.3*			the energy requiren	•		/s:			
	ENERG	Y STAR®	version: Version 5.0	0 dated July 1, 2009	Product category:	Α	$\boxtimes$		
		· ·	ergy Star for Exter	nal Power Supplies	s Eligibility Criteria	Version 2			
P10	Emissio		Declared according	to ISO 0206					
P10.1	Mode		Mode description	10100 3230	Declared	Declared A-we	eighted		
					A-weighted	sound pressure leve			
					sound power		Bystander positions		
					level $L_{WAd}$ (B)	Desktop X			
						or Desk side (0	only if product is not operator attended)		
	Idle	*	HDD: Idle		* 3.0	23.7	operator attended)		
	Operatio		HDD: Operating		* 3.0	26.1		H	
	Other mo	ode							
	Measure	d accordir	ng to: 🔀 ISO7779 [	ECMA-74					
			Other			h L <sub>pAm</sub> measurement dista	nce m)		
P10.2	The product meets the acoustic noise requirements of the following voluntary program/s:					$\square$			

Model nun	mber* Lenovo IdeaPad S410p Touch							
Issue date	*	2013-08-				Logo	lenovo	
_	Product environmental attributes - Market requirements (continued) Requirement me							
Product e	environn	nental at	tributes - Market	requirements (co	ontinued)		Requirement Yes No	n.a.
P9	Energy	consumpt	ion				165 110	n.a.
9.1			following power lev	els or energy consu	mptions are reporte	ed: See P14		
			ped w/ WOL Enable					
Energy mode *			Power level at <b>100</b> V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard and test method *	d for energy modes	
Peak (On-I	max)		<b>65</b> ₩	<b>65</b> W	<b>65</b> W	Full load		
Category	<u>у В</u>					•		
Idle State -	- WOL En	abled	5.976W	5.472W	5.556 W	Use for Energy Star	V5 registration(P <sub>idle</sub> )	
Sleep (S3)	- WOL E	nabled	0.708 W	0.708 W	0.768W	Use for Energy Star	V5 registration(P <sub>sleep</sub> )	
Sleep (S3)	- WOL D	isabled	0.832 W	0.839 W	0.890 W	Reference		
Off (S5) - V	NOL Enal	bled	0.47 W	0.48 W	0.54 W	Use for Energy Star	V5 registration(P <sub>off</sub> )	
Off (S5) - V	NOL Disa	bled	0.216W	0.216 W	0.276 W	Use for EuP		
EPS No-loa	ad		0.086 W	0.091 W	0.141 W			
(External p charger plu outlet but d	igged in th	ne wall						
the product								
TEC	-		kWh/week	kWh/week	kWh/week			$\square$
Typical Ene	ergy Cons	umption						
Etec * Annual Ene	ergy Cons	umption	19.110 kWh/year	19.220 kWh/year	20.000 kWh/year	$E_{TEC} = (8760/1000) \times 0.1 + P_{idle} \times 0.3)$	$(P_{off} \times 0.6 + P_{sleep} \times 0.6)$	
	0,	·	Poff: Off Mode(S5) - W	VOL Enabled; P <sub>sleep</sub> : S	Sleep Mode(S3) - WOL	Enabled; P <sub>idle</sub> : Idle State	- WOL Enabled	1
Display res	olution :	1366*768	Megapixels					
Print Speed				to				
			Images per minu					
P9.2*			we mode: 25 minute		the product			<u>       </u>
			87	•	•	/		
P9.3*			the energy requirenversion: Version 5.0					
			ergy Star for Exter					Н
P10	Emissio	-						
D10.1			Declared according	to ISO 9296	Declared	Declared A	weighted	1
P10.1	P10.1 Mode M		Mode description		Declared A-weighted sound power	Declared A-weighted sound pressure level $L_{pAm}$ (dB)		
						Operator position 🔀	Bystander positions	
				in a second	Desktop 🔀	(only if product is not		
						or Desk side 🗌	operator attended)	
	Idle		HDD: Idle		* 3.0	23.7		
	Operatio		HDD: Operating		* 3.0	26.1		
	Other mo			_				4
	Measure	d accordir	ng to: 🔀 ISO7779	ECMA-74		h 1		
P10.2	The pred	luct mooto	Other			h L <sub>pAm</sub> measurement dis	stance m)	
110.2	10.2 The product meets the acoustic noise requirements of the following voluntary program/s:					Å		

Model nu	umber *	Lenovo IdeaPad S410p Touch			
Issue da	te *	2013-08-07 Logo	leno	vo	
Product	t environr	nental attributes - Market requirements (continued)	Requir	ement	met
Item			Yes	No	n.a.
	Chemic	al emissions from printing products			
P10.3*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard 🗌, other specify:			$\square$
P10.4	•••	emission rate (print phase) is (mg/h):			$\boxtimes$
D40 C		Dust Ozone Styrene Benzene TVOC			
P10.5		al emission requirements of the following voluntary program/s are met for : DustOzoneStyreneBenzeneTVOC			$\boxtimes$
	Electron	nagnetic emissions			
P10.6		er display meets the requirement for low frequency electromagnetic fields of the following voluntary /s: <b>MPR-II</b>	$\square$		
P11	Consun	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).			$\square$
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	Ergono	mics for computing products			
P12.1*	•	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		ing and documentation			
P13.1*	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>0.080</i> packaging material type(s): <i>Others</i> weight (kg): <i>0.123</i>			
P13.2*	Product	plastic packaging is free from PVC.	$\square$		
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 recycler <b>%</b> (Japan only 70%)	b		
P14		nal information (See Note B4)			
	informat knowled provided informat		sed on su tion. The i	pplier's nforma	
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 lates ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls (insert appropriate web url)	st informa	ation:	

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