

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.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 G410				
Model number *	20237;80A7				
Issue date *	2013-7-22				
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			Requirement 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 G410		
Issue date *	2013-7-22	Logo	lenovo.

Product	duct environmental attributes - Legal requirements			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.			
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).	\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)			\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/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*				
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).	\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).	\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).			
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the			
D.C.	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).	\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.			

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

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**mandatory to fill in. Additional information regarding each item may be found under P14.	Product	environmental attributes - Market requirements - Environmental conscious design Re	quire	men	t me	et
P6.11 Information for recyclers/treatment facilities is available (see legal reference). P7		*=mandatory to fill in. Additional information regarding each item may be found under P14.			n.	a.
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 120g consist of one material or of easily separable materials. P7.4 Plastic parts 25g have material codes according to ISO 11469 referring ISO 1043. P7.5 Plastic parts 25g have material codes according to ISO 11469 referring ISO 1043. P7.5 Plastic parts 25g have material codes according to ISO 11469 referring ISO 1043. P7.5 Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. P7.6 Labels are easily separable. (This requirement does not apply to safety/regulatory labels). P7.6 Product lifetime P7.7 Upgrading can be done e.g. with processor, memory, cards or drives P7.8 Upgrading can be done e.g. with processor, memory, cards or drives P7.8 Upgrading can be done using commonly available tools P7.8 Spare parts are available after end of production for: 5 years P7.10 Service is available after end of production for: 5 years P7.10 Product cover/housing material type: Material and substance requirements P7.11 Product cover/housing material type: Material type: PC+ABS-FR(40) Material type: Material type: PC+ABS-FR(40) Material type: Material type: PC+ABS-FR(40) Material type: Material upgrading and the production materials of power cables are PVC free. P7.13 Electrical cable insulation materials of power 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 free from chlorine and bromine. P7.16 P7.17 Alt. 1 P7.17 Alt. 1 P7.18 Alt. 1 P7.18 Alt. 1 P7.19 Alt. 2 P7.19 Alt. 2 P7.19 Alt. 2 P7.10 P7.10 Alt. 3 P7.10						
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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	P7.15					Ī
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: 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: 4. Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(40)						
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: **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 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(40)		Marking: FR(40)]
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 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(40)	P7.17	Chemical specifications of flame retardants in printed circuit boards >25g (without components):				
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: FR(40)		Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: <i>Brominated Epoxy Resin See P14</i>				
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: FR(40)	P7.18	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in				
Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(40)		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:				
		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,				$\overline{}$
R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	D7.00	_				
		Of total plastic parts' weight >25g, recycled material content is 3.0%.				
		Of total plastic parts' weight >25g, biobased material content is %.				_
P7.22 Light sources are free from mercury Batteries		·				_
P8.1* Batteries P8.1* Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide						7
P8.2 Batteries meet the requirements of the following voluntary program/s: <i>US RBRC</i>					<u> </u>	┿

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 number *	Lenovo G410			
Issue date *	2013-7-22	Logo	lenovo.	
Product environmental attributes - Market requirements (continued) Requirement met				

Product environmental a	ct environmental attributes - Market requirements (continued) Requirement met					met
Item					n.a.	
P9 Energy consumption						
	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 / Standard for and test method *	r energy modes	
Peak (On-max)	90 W	90 W	90 W	Full load		
Category B			I			
Idle State - WOL Enabled	5.707 W	<i>5.750</i> W	5.858 W	Use for Energy Star V5 re	egistration(P _{idle})	
Sleep (S3) - WOL Enabled	0.828 W	<i>0.830</i> W	0.892W	Use for Energy Star V5 re	egistration(P _{sleep})	
Sleep (S3) - WOL Disabled	0.731 W	0.735 W	<i>0.7</i> 95 W	Reference		
Off (S5) - WOL Enabled	0.309 W	0.314 W	<i>0.370</i> W	Use for Energy Star V5 re	egistration(P _{off})	
Off (S5) - WOL Disabled	0.309W	0.314 W	<i>0.370</i> 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	17.347 kWh/year	17.488 kWh/year	18.121 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} 0.1 + P_{idle} \times 0.3)$	f X 0.6 + P _{sleep} X	
	P _{off} : Off Mode(S5) - I	WOL Enabled; P _{sleep} : S	Sleep Mode(S3) - WO	Enabled; P _{idle} : Idle State - WO)L Enabled	
Display resolution : 1280*80	00 Megapixels					
Print Speed : Images per minute					\boxtimes	
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:	В		
P10 Emissions Noise emission	- Declared according	to ISO 9296				
	Mode description	10 100 9290	Declared A-weighted sound power	Declared A-weig sound pressure level	$L_{p{\sf Am}}$ (dB)	
			level $L_{W\!Ad}$ (B)	Desktop (only	stander positions y if product is not perator attended)	
Idle	* HDD: Idle		* 3.0	23.9		
Operation	* HDD: Operating		* 2.6	21.6		
Other mode	. 🔽 「					
Measured accord	ng to: ISO7779 Cother	ECMA-74 (only if not cover	ed by ECMA-74 wit	h L _{pAm} measurement distanc	ce m)	
P10.2 The product meet	s the acoustic noise					\square

Model ni	umber *	Lenovo G410				
Issue da	te *	2013-7-22 L	ogo	eno	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*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:				
P10.4	Typical e	emission rate (print phase) is (mg/h):				
		Dust Ozone Styrene Benzene TVOC				
P10.5		al emission requirements of the following voluntary program/s are met for : Oust Ozone Styrene Benzene T\	/oc 🗌			
		magnetic emissions	/OC			
P10.6	Comput	er display meets the requirement for low frequency electromagnetic fields of the follow //s: MPR-II	ving voluntary			
P11		nable materials for printing products				
P11.1*		Data Sheet (SDS) is available for the ink/toner preparation, even if not legally require	ed (see P4.3).		П	
P11.2*		ontaining post-consumer recycled fibers can be used, provided that it meets the	, ,	f		
P11.3*		(duplex) printing/copying is an integrated product function.			П	\square
P12		mics for computing products				
P12.1*		play meets the ergonomic requirements of ISO 9241-307 for visual display technologic	es.		П	\Box
P12.2*	The phy	sical input device meets the requirements of ISO 9995 and ISO 9241-410.			Ħ	Ħ
P13	Packagi	ing and documentation				
P13.1*	Product Product Product	packaging material type(s): Corrugated Carton weight (kg): 0.378 packaging material type(s): Polyethylene Cushions weight (kg): 0.081 packaging material type(s): Others weight (kg): 0.230				
P13.2*		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-cons (% (Japan only 70%)	sumer recycled			
P14	Additio	nal information (See Note B4)				
	informat knowled provided informat		s provided base such informatio count Represen	ed on sup on. The in	plier's forma	•
P7.17	Produc	t does not contain free TBBPA in printed circuit boards(without components)>2	5g.			_
P9		ergy Star Qualified (insert appropriate Product type; i.e. Desktop, Notebook, etc. ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls (insert appropriate web		informat	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