

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					
Internet site *	alcarter@lenovo.com 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					

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 *	Personal Computer				
Commercial name *	Lenovo M5800				
Model number *	90AH; 10155				
Issue date *	2013.08.05				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information	ENERGY STAR® Qualified; GreenGuard;				

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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 contro such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	Lenovo M5800	MT:90AH; 10155		
Issue date *	2013.08.05		Logo	lenovo.

Product	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	\boxtimes		
	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),	\boxtimes		
	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	\boxtimes		
	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	\boxtimes		
	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),			\boxtimes
	Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference).			
5.5	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			\boxtimes
D / Ot	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		Ш	\boxtimes
	pentachlorophenol and derivatives (see legal reference).			
D4.0*	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	\boxtimes		
	microgram/cm²/week (see legal reference).			
D4.40*	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):	\boxtimes	Ш	
	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	\boxtimes		
	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			
P2.2*	provided in user manual. (See legal reference)		$\overline{}$	
P2.2	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or	\boxtimes	Ш	
P2.3*	accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference) Batteries and accumulators are easily removable by either users or service providers (as dependent on the		_	
F2.3	design of the product). Exception: Batteries that are permanently installed for safety, performance, medica		Ш	
	or data integrity reasons do not have to be "easily removable". (See legal reference)	1		
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).			
			 	Щ.
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal	\boxtimes	Ш	
P3.3*	reference). If product is intended for connection to a public telecom network or contains a radio transmitter, it complies		$\overline{}$	
1 3.3	with legally required standards for radio and telecommunication devices (see legal reference).	\boxtimes	ш	
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		Ш	\boxtimes
D 4 0*	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).			\boxtimes
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the			\boxtimes
	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	t 🖂		
DE 0*	hexavalent chromium by weight of these together.			
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).		<u>Ш</u>	_ <u></u> _
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea	ıl 🔀		
	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 number *	Lenovo M5800	MT:90AH; 10155		
Issue date *	2013.08.05		Logo	lenovo.

Product	environmental attributes - Market requirements - Environmental conscious design R	equire	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	\square		
P7.2*	Plastic materials in covers/housing have no surface coating.		+	-
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		+	-#-
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		ᆜ	
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		<u>Ц</u>	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ш	
P7.7*	Product lifetime Upgrading can be done e.g. with processor, memory, cards or drives			
			井	
P7.8*	Upgrading can be done using commonly available tools	\boxtimes		<u> </u>
P7.9.	Spare parts are available after end of production for: 5 years			_ <u></u> _
P7.10	Service is available after end of production for: 5 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type:			
D7.40	Material type: ABS Material type: PMMA Material type: Steel			
P7.12	Electrical cable insulation materials of power cables are PVC free.	Щ.		
P7.13	Electrical cable insulation materials of signal cables are PVC free		\boxtimes	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	\boxtimes		
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)			
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking:			
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	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 0%			
P7.21	Of total plastic parts' weight >25g, biobased material content is %.			
P7.22	Light sources are free from mercury	\boxtimes		
P8	Batteries			
P8.1*	Battery chemical composition:			\boxtimes
P8.2	Batteries meet the requirements of the following voluntary program/s:			

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								
Item								
P9 Energy consumption 9.1 For the product the following power levels or energy consumptions are reported: See P14								
The product is shi	pped w/ WOL Enable	ed.						
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 *				
Category D								
Idle State - WOL Enabled	46.17 W	46.56 W	46.02 W	Use for Energy Star V5 registration(P _{idle})				
Sleep (S3) - WOL Enabled	2.09W	2.11 W	2.32 W	Use for Energy Star V5 registration(P _{sleep})				
Off (S5) - WOL Enabled	1.05W	1.08W	1.28 W	Use for Energy Star V5 registration(Poff)				
Peak (On-max)	W	W	W	Full load				
Category C	•		ı		ı			
Idle State - WOL Enabled	W	W	W	Use for Energy Star V5 registration(P _{idle})	\boxtimes			
Sleep (S3) - WOL Enabled	W	W	W	Use for Energy Star V5 registration(P _{sleep})				
Off (S5) - WOL Enabled	W	W	W	Use for Energy Star V5 registration(Poff)				
Peak (On-max)	W	W	W	Full load				
Category B								
Idle State - WOL Enabled	43.16 W	43.28 W	42.88 W	Use for Energy Star V5 registration(Pidle)				
Sleep (S3) - WOL Enabled	2.10W	2.11W	2.32 W	Use for Energy Star V5 registration(P _{sleep})	$\overline{\Box}$			
Off (S5) - WOL Enabled	1.07W	1.08W	1.26 W	Use for Energy Star V5 registration(Poff)				
Peak (On-max)	W	W	W	Full load	$\overline{}$			
, ,								
EPS No-load	W	W	W					
(External power supply / charger plugged in the wall outlet but disconnected from								
TEC	kWh/week	kWh/week	kWh/week					
Typical Energy Consumption								
ETEC * Annual Energy Consumption	Cat D: 167.75; Cat C: ; Cat B: 157.31; Cat A: ; kWh/year	Cat D: 169.27; Cat C: ; Cat B: 157.78; Cat A: ; kWh/year	Cat D: 168.44; Cat C: ; Cat B: 157.34; Cat A: ; kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.55 + P_{sleep} \times 0.05 + P_{idle} \times 0.4)$				
	P _{off} : Off Mode(S5) - V	WOL Enabled; P _{sleep} : S	l Sleep Mode(S3) - WOI	L Enabled; Pidle: Idle State - WOL Enabled	I			
Display resolution : M	legapixels							
Print Speed :	Images per minu	te						
Default time to enter energy sa								
	the energy save fund		the product.					
•	s the energy requirent version: Version 5.2		,, ,	n/s:				
P10 Emissions								
	 Declared according Mode description 	to ISO 9296	Declared	Declared A-weighted	Ī			
F TO. 1 WIOGE	Mode description		A-weighted sound power level L_{WAd} (B)	sound pressure level $L_{p \text{Am}}$ (dB) Operator position \boxtimes Bystander positions				
				Desktop (only if product is not operator attended)				
	* HDD: Idle		* 3.7	26				
Operation Other mode	* HDD: Operating		* 3.9	23				
	Other mode Macquired experience to MISO7770 FCMA 74							
ivicasureu accordi	Measured according to: ☐ ISO7779 ☐ ECMA-74 ☐ Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)							
P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:								

Model nu	ımber *	Lenovo M5800	MT:90AH;	10155						
Issue dat	e *	2013.08.05				Logo	lei	70	VO.	
Product	environr	nental attributes - Ma	arket requiren	nents (continue	ad)		Rec	uira	nent	met
Item	CIIVIIOIII	nental attributes - Me	arket requirem	nems (commu	, uj			Yes	No	n.a.
	Chemic	al emissions from print	ing products							
P10.3*		formed according to ECN		C 28360) standard	, other specif	iv:		П	П	
P10.4		emission rate (print phase		,		•		_		
		Dust Ozone	Styrene	Benzene	TVOC					
P10.5		al emission requirements Oust Ozone			n/s are m Benzene	et for :				
		magnetic emissions								
P10.6	Compute program	er display meets the requ /s:	uirement for low	frequency electror	nagnetic fields of	f the following volu	ntary			
P11		nable materials for print								
P11.1*		Data Sheet (SDS) is ava			_		,			\boxtimes
P11.2*	EN1228		•	•	rovided that it m	neets the requirem	nents of			
P11.3*	2-sided	(duplex) printing/copying	is an integrated	product function.						\boxtimes
P12		mics for computing pro								
P12.1*	•	lay meets the ergonomic	•			echnologies.		\boxtimes		
P12.2*	The phys	sical input device meets	the requirements	s of ISO 9995 and	ISO 9241-410.			\boxtimes		
P13		ng and documentation								
P13.1*	Product Product	packaging material type(packaging material type(packaging material type((s): EPE weight (s): weigh							
P13.2*		plastic packaging is free						\boxtimes		
P13.3*		media for user and produic \boxtimes , Paper \boxtimes , Other		on (tick box):						
P13.4*		er user and product docu % (Japan only 70%)	mentation, pleas	se specify contain	ed percentage of	post-consumer re	cycled			
P14		nal information (See No								
	informat knowled	Supplier makes no repre- ion contained in this docu- ge available at the time of here is approximate and ion.	ument. All inform of completion, ar	nation provided by nd supplier shall ha	supplier in this dave no obligation	locument is provide to update such in	ed based of formation.	n supp The in	olier's format	
P7.17		does not contain free								
P9	See Ene http://do	ergy Star Qualified (inservented) Sownloads.energystar.go	ert appropriate ov/bi/qplist/lapt	Product type; i.e ops_prod_list.xl	Desktop, Notes (insert approp	book, etc.) for the oriate web url)	e latest info	ormat	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