

## 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 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com	lenovo			
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				

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 *	Display			
Commercial name *	LT2452p Wide			
Model number *	MT: 60A6-MAR2			
Issue date *	2013/11/25			
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	Quality Control			
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 *	LT2452pwC	MT: 60A6-MAR2		
Issue date *	2013/11/25		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 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),	$\boxtimes$		
	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 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).	$\square$		
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	$\square$		
1 1.5	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):	$\square$		
	http://www.lenovo.com/social_responsibility/us/en/materials.html			
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, medic 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).	$\boxtimes$		
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).			$\square$
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	$\boxtimes$		
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).	$\square$		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montre 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 *	LT2452pwC MT: 60A6-MAR2				
Issue da	ate *	2013/11/25	Logo	leno	NO.	
Produc	t environ	mental attributes - Market requirements - Environmental conscious de	sian E	Require	mont	mo
Item		atory to fill in. Additional information regarding each item may be found under P14.	-sign i	Yes	No	n.a
P6		nt information				
P6.1*		on for recyclers/treatment facilities is available (see legal reference).		$\square$		
P7	Design					
		mbly, recycling				
P7.1*	Parts that	at have to be treated separately are easily separable		$\boxtimes$		
P7.2*	Plastic m	naterials in covers/housing have no surface coating.		$\square$		
P7.3*	Plastic p	arts >100g consist of one material or of easily separable materials.		$\square$		
P7.4*	Plastic p	arts >25g have material codes according to ISO 11469 referring ISO 1043.				Г
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly av	ailable tools.		Ē	
P7.6*	-	re easily separable. (This requirement does not apply to safety/regulatory labels).			Ħ	
	Product					
P7.7*		ng can be done e.g. with processor, memory, cards or drives				X
P7.8*	Upgradir	g can be done using commonly available tools			Ē	
P7.9.	Snare na	arts are available after end of production for: 5 years				
P7.10		s available after end of production for: 5 years		_		
		and substance requirements				
P7.11*		cover/housing material type:				
		type: ABS Material type: PC Material	type:			
P7.12		I cable insulation materials of power cables are PVC free.			$\boxtimes$	
P7.13	Electrica	I 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 printe Note B2	ed circuit boards (without components) >25g are halogen free. as defined in IEC61	249-2-21. (See	$\square$		
P7.16	Flame re Marking:	tarded plastic parts >25g in covers / housings are marked according ISO 1043-4:				$\geq$
P7.17		al specifications of flame retardants in printed circuit boards >25g (without componen additive) , TBBPA (reactive) , Other; chemical name: <i>TPP</i> , CAS #: 115-86-				C
	ISO 104	Il specifications of flame retardants in printed circuit boards (without components) >2 3-4: <i>FR(40)</i>	5g according			
P7.18	concentr	etarded plastic parts >25g contain the following flame retardant substances/p ations above 0.1%: ent: No legal limits exist, this is a market requirement.	preparations in			
	2. Chem	ical name: , CAS #: ical name: , CAS #: ical name: , CAS #:				
		Il specifications of flame retardants in plastic parts >25g according ISO 1043-4:				Þ
P7.19	R40, R4	arts >25g are free from flame retardant substances/ preparations above 0.1% classil 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	fied as R45,			L
P7.20		plastic parts' weight >25g, recycled material content is 65%.				
P7.21		plastic parts' weight >25g, biobased material content is 0%.				
P7.22		ry is used specify: Number of lamps: and max. mercury content per lamp:	ma	$\bowtie$	$\Box$	L
P8	Batterie		mg			
P8.1*		chemical composition:				
P8.2		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.

Model num	<sup>lodel number *</sup> LT2452pwC MT: 60A6-MAR2						
Issue date	*	2013/1				Logo lenovo	
Product e	nvironm	ontal att	ributes - Market I	requirements (	continued)	Requirement	mot
						n.a.	
		onsumpti					
9.1	For the p	roduct the	following power leve	els or energy cons	umptions are re	ported: 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)		38.2 W	38.3 W	38.6 W	Full load		
Category	<u> </u>				•		
Idle State -	WOL Ena	abled	25.2 W	25.3 W	25.3 W	Use for ENERGY STAR V5 registration(P <sub>idle</sub> )	
Sleep (S3)	- WOL Er	nabled	0.49 W	0.50 W	0.50 W	Use for ENERGY STAR V5 registration (P <sub>sleep</sub> )	
Sleep (S3)	- WOL Di	sabled	0.49 W	0.50 W	0.50 W	Reference	
Off (S5) - V	VOL Enab	oled	0.45 W	0.45 W	0.50 W	Use for ENERGY STAR V5 registration(Poff)	
Off (S5) - W	VOL Disal	bled	0.45 W	0.45 W	0.50 W	Use for EuP	
Category	/ <u>B</u>		1		1		
Idle State -		abled	W	W	W	Use for ENERGY STAR V5 registration(P <sub>idle</sub> )	$\square$
Sleep (S3)	- WOL Er	nabled	W	W	W	Use for ENERGY STAR V5 registration (P <sub>sleep</sub> )	
Sleep (S3)	- WOL Di	sabled	W	W	W	Reference	
Off (S5) - M			W	W	W	Use for ENERGY STAR V5 registration(Pott)	
Off (S5) - M	VOL Disal	bled	W	W	W	Use for EuP	
EPS No-loa	d		W	W	W		
(External po charger plug outlet but di the product.	gged in the sconnecte	e wall					
PTEC * Typical Ene	rgy Consu	umption	W	W	W		
TEC * Typical Ene	rgy Consu	umption	kWh/week	kWh/week	kWh/week		
ETEC * Annual Ene	rgy Consu	umption	69 kWh/year	69.3kWh/year	<mark>69.6</mark> kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{sleep} \times 0.1 + P_{idle} \times 0.3)$	
			Poff: Off Mode(S5) -	NOL Enabled: Psie	.: Sleep Mode(S3)	- WOL Enabled; Pidle: Idle State - WOL Enabled	
Display reso	olution* :	2.1 Mega					
Print Speed	* :	Ima	ages per minute				
			ve mode: 15 second	1			
			ne energy save funct		th the product.		님
P9.3*		STAR® v	the energy requirem version: Version 5.0		0 71		
	Emission						
	Noise em	nission –	Declared according t	to ISO 9296			1
P10.1	Mode	N	lode description		Declared A-weighted sound powe	sound pressure level $L_{rAm}$ (dB)	
					level $L_{WAd}$	(B) Operator position Bystander positions Desktop (only if product is not	
F	Idle	*	HDD:Idle		*	operator attended)	
	Operation	า *	HDD: Operating		*		
	Other mo	de					
Γ	Measured	d according	g to: ISO7779 C		red by FCMA-74	with L <sub>pAm</sub> measurement distance m)	
P10.2	The produ	uct meets	the acoustic noise re				$\square$

Model nur	nber *	LT2452pwC	MT: 60	0A6-MAR2					
Issue date	*	2013/11/25				Logo	leno	VO.	
Product	environn	nental attributes - Ma	arket requireme	ents (continued)			Require	ment	met
Item				· · ·			Yes	No	n.a.
	Chemica	al emissions from print	ing products						
P10.3*	Test perf	ormed according to EC	/A-328 (ISO/IEC 2	28360) standard	, other specify:				$\boxtimes$
P10.4	• •	emission rate (print phas Dust Ozone	e) is (mg/h): Styrene	Benzene	TVOC				$\boxtimes$
P10.5	Chemica	I emission requirements		oluntary program/s	are met for :	TVOC			
		nagnetic emissions							
P10.6	Compute program/	er display meets the requ /s: <b>CE</b>	irement for low fre	equency electromag	netic fields of the fo	ollowing voluntary	$\boxtimes$		
P11		able materials for prin							
P11.1*	-	Data Sheet (SDS) is av							$\boxtimes$
P11.2*	EN12281				ded that it meets t	the requirements	of 🗌		$\square$
P11.3*	2-sided (	duplex) printing/copying	is an integrated pr	roduct function.					$\boxtimes$
P12		nics for computing pro							
P12.1*	•	lay meets the ergonomic	•			logies.	$\square$		
P12.2*	The phys	sical input device meets	the requirements of	of ISO 9995 and IS	O 9241-410.				$\boxtimes$
P13		ng and documentation							
P13.1*	Product	packaging material type packaging material type packaging material type	s): Plastic	<b>nd paper</b> weight (kલ weight (kલ weight (kg):					
P13.2*	Product	plastic packaging is free	from PVC.				$\square$		
P13.3*		nedia for user and produ c 🔀, Paper 🔀, Other	ct documentation	(tick box):					
P13.4*	For pape fiber: 0	r user and product docu	mentation, please	specify contained p	percentage of post-	consumer recycled	1		
P14	Addition	al information (See No	ote B4)						
	informati knowledg provided informati		ument. All informat of completion, and d provided for infor	tion provided by sup supplier shall have mational purposes	oplier in this docume no obligation to up only. See a Lenovo	ent is provided bas date such informat Account Represe	sed on sup ion. The in	plier's forma	tion
P9		ergy Star Qualified Note ww.energystar.gov/ind					0		

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