

## 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 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 *	Monitor				
Commercial name *	E2224A				
Model number *	MT : 60DA-HAR1-WW				
Issue date *	2015/08/10				
Intended market *	🛛 Global 📃 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other				
Additional information	Additional information				

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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).	h 🛛	

Model number *	E2224A		
Issue date *	2015/08/10	Logo	Lenovo.

Product	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.			
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).	$\square$		
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 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			
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, 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).	$\square$		
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	$\overline{\times}$		
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).			
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).	3		
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavaler chromium by weight of these together.	nt 🔀		
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 Montreal Protoce (see legal reference). Comment: Legal reference has no maximum concentration values.	ol 🔀		

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

Model nu	imber *	E2224A				
Issue dat	e *	2015/08/10 Logo				
Product	environ	mental attributes - Market requirements - Environmental conscious design	Roc	uiro	ment	mot
Item		atory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P6		nt information				
P6.1*	Informati	on for recyclers/treatment facilities is available (see legal reference).		$\boxtimes$		
P7	Design Disasse	mbly, recycling	_			
P7.1*	Parts that	t have to be treated separately are easily separable		$\boxtimes$		
P7.2*	Plastic m	naterials in covers/housing have no surface coating.			$\boxtimes$	
P7.3*	Plastic p	arts >100g consist of one material or of easily separable materials.		$\boxtimes$		
P7.4*	Plastic p	arts >25g have material codes according to ISO 11469 referring ISO 1043.		$\boxtimes$		
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available tools.		$\boxtimes$		$\neg \neg$
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).			Π	Ħ
	Product					
P7.7*		g can be done e.g. with processor, memory, cards or drives		$\boxtimes$		
P7.8*		ig can be done using commonly available tools			Π	Ť
P7.9.		Ints are available after end of production for: 5 years				Ħ
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: SG	СС			
P7.12	Electrica	I cable insulation materials of power cables are PVC free.			$\boxtimes$	
P7.13	Electrica	I cable insulation materials of signal cables are PVC free			$\square$	
P7.14	All cover	/housing plastic parts >25g are free from chlorine and bromine.		$\boxtimes$		$\neg$
P7.15	All printe B2)	d circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (Se	ee Note			
P7.16	/	tarded plastic parts >25g in covers / housings are marked according ISO 1043-4:				$\square$
P7.17	Alt. 1 Chemica TBBPA ( Alt. 2 Chemica	I specifications of flame retardants in printed circuit boards >25g (without components): (additive) , TBBPA (reactive) , Other; chemical name:, CAS #:	g ISO			
P7.18	1043-4: Alt. 1 Flame r concentr	retarded plastic parts >25g contain the following flame retardant substances/preparati ations above 0.1%:	ons in			
	Provide complete 1. Chem 2. Chem	<ul> <li>a list of all used flame retardants including MSDS for each flame retardant. The list must e chemical name, CAS number and supplier.</li> <li>ical name: , CAS #: , Supplier:</li> </ul>	contain			
	Alt. 2	ical name: , CAS #: , Supplier:				
P7.19		arts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, 8, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	R40,	$\boxtimes$		
P7.20		lastic parts' weight >25g, recycled material content is 85%				
P7.21		plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sources are free from mercury					
P8	Batterie					
P8.1*		hemical composition:				
P8.2	Batteries	meet the requirements of the following voluntary program/s:				$\boxtimes$

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 num	ber *	<b>E222</b>	24A					
Issue date *	*	2015/08/	10			Logo	Lenovo.	
						· · · · · · · · · · · · · · · · · · ·		
Product e met	nvironi	mental a	ttributes - Marke	t requirements (d	continued)		Requiremen	t
Item							Yes No	n.a.
P9	Energy	consump	tion					
			following power level oped w/ WOL Enabled		tions are reported: S	See P14		
Energy mode	e *		Power level at <b>100</b> V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard for test method *	r energy modes and	
Peak (On-m	nax)		16.93W	16.83W	16.82W	Full load		
Category	<u> </u>			L	I			
Idle State -	WOL En	abled	16.93W	16.83W	16.82W	Use for Energy Star V5	registration(P <sub>idle</sub> )	
Sleep (S3) -	WOL E	nabled	0.13W	0.13W	0.14W	Use for Energy Star V5	registration(P <sub>sleep</sub> )	
Sleep (S3) -	WOL D	isabled	0.13W	0.13W	0.14W	Reference		
Off (S5) - W	/OL Enal	bled	0.10W	0.10W	0.10W	Use for Energy Star V5	registration(Poff)	
Off (S5) - W	/OL Disa	bled	0.10W	0.10W	0.10W	Use for ErP	-	
Category	/ B							
			W	W	W	(P <sub>idle</sub> )		
			W	W	W	(P <sub>sleep</sub> )		F
			W	W	W			
			W	W	W	(P <sub>off</sub> )		
			W	W	W	(* 607)		
EPS No-load	4		w	W	Ŵ			
(External por charger plug outlet but dis the product.) TEC	ged in th	e wall						
Typical Ener	rgy Cons	umption	kWh/week	kWh/week	kWh/week			
ETEC * Annual Ener	rgy Consi	umption	45.13kWh/year	44.87kWh/year	44.85kWh/year	$E_{TEC} = (8760/1000) \times (P_o + P_{idle} \times 0.3)$	<sub>ff</sub> x 0.6 + P <sub>sleep</sub> x 0.1	
			Poff: Off Mode(S5) - I	NOL Enabled; P <sub>sleep</sub> :	Sleep Mode(S3) - WO	L Enabled; P <sub>idle</sub> : Idle State -	WOL Enabled	1
Displav reso	lution	: 1920*108	BOMegapixels					
Print Speed		: Images p						
•		• •						
			e mode: 15 seconds	on is provided with th	o product			╵┝┥
			the energy requireme	•	•			
	ENERG' Others s		version: Version6.0	Product category: Di	splay			
	Emissio		Declared according t	- 150 0206				
	Mode		Mode description	0150 9290	Declared	Declared A-w	eighted	
-					A-weighted sound power	sound pressure leve		
					level $L_{WAd}$ (B) _	Operator position A Desktop  or Desk side	only if product is not	
F	Idle		* HDD: Idle		*		operator attended)	┥┍┑
	Operatio		* HDD: Operating		*			-  -
	Other mo				+ +			
			ıg to: 🔀 ISO7779 🗌	ECMA-74	<u> </u>			
			Other		d by ECMA-74 with	L <sub>pAm</sub> measurement distanc	e m)	
P10.2	The proc	luct meets	the acoustic noise re					

Model nu	mber *	E2224A				
Issue date	) *	2015/08/10	Logo	Lenov	/0.	
	environr	nental attributes - Market requirements (continued)	F	Require	ment	
Item				Yes	No	n.a.
ILCIII	Chomics	al emissions from printing products		165	NU	n.a.
P10.3*						$\boxtimes$
		ormed according to ECMA-328 (ISO/IEC 28360) standard , other specify:				
P10.4	•••	mission rate (print phase) is (mg/h):				$\boxtimes$
D/0 5		Dust Ozone Styrene Benzene TVOC				
P10.5	0	I emission requirements of the following voluntary program/s are met for :           Oust         Ozone         Styrene         Benzene	TVOC			
		nagnetic emissions				
P10.6		r display meets the requirement for low frequency electromagnetic fields of the followi s: <b>TCO 6.0</b>	ng voluntary		$\bowtie$	
P11		able 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 co EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets t I.	he requirements of			$\boxtimes$
P11.3*	2-sided (	duplex) printing/copying is an integrated product function.				$\boxtimes$
P12	Ergonor	nics for computing products				
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technologies	3.	$\square$		
P12.2*	The phys	ical input device meets the requirements of ISO 9995 and ISO 9241-410.				
P13	Packagi	ng and documentation				
P13.1*	Product Product Product	Dackaging material type(s): EPE Bagweight (kg): 0.015Dackaging material type(s): PE Bagweight (kg): 0.006Dackaging material type(s): Paperweight (kg): 0.033Dackaging material type(s):Cartonweight (kg): 1.062Dackaging material type(s): EPSweight (kg): 0.18				
P13.2*	Product	plastic packaging is free from PVC.	$\boxtimes$			
P13.3*		nedia for user and product documentation (tick box): c				
P13.4*		r user and product documentation, please specify contained percentage of post-consu fiber: 70% (Japan only 70%)	imer			$\boxtimes$
P14		al information (See Note B4)				
	informati available	Supplier makes no representations, guarantees, assurances or warranties whether ex on contained in this document. All information provided by supplier in this document is at the time of completion, and supplier shall have no obligation to update such informa ate and provided for informational purposes only. See a Lenovo Account Representation	provided based on ation. The informatio	supplier's n provide	s know	

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