

## 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.

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Additional information	The latest version of this document can be found at				
	http://www.lenovo.com/social_responsibility/us/en/datasheets_netrics/	otebooks.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 *	Т2454рА			
Model number *	MT : 60C9-MAR1-WW			
Issue date *	2014/12/05			
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	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).	ו 🛛	

Model number *	Т2454рА		
Issue date *	2014-12-05	Logo	lenovo

Product	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.			
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.	$\square$		
P1.4*	Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	$\square$		
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)			$\boxtimes$
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).	$\boxtimes$		
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).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			$\mathbb{X}$
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).	5		
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavale 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 Protoc (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	ımber *	Т2454рА				
Issue date * 2014-12-05			Logo	lenc	)VO	
						met
Item P6		tory to fill in. Additional information regarding each item may be found under P14. nt information		Yes	No	n.a.
P6.1*		on for recyclers/treatment facilities is available (see legal reference).				
P7	Design					
		mbly, recycling				
P7.1*		t have to be treated separately are easily separable				
P7.2*		aterials in covers/housing have no surface coating.			$\square$	
P7.3*		arts >100g consist of one material or of easily separable materials.				
P7.4*		arts >25g have material codes according to ISO 11469 referring ISO 1043.		$\square$		
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly availa	able tools.	$\square$		
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).		$\square$		
	Product					
P7.7*		g can be done e.g. with processor, memory, cards or drives			Ц	<u> </u>
P7.8*		g can be done using commonly available tools		$\square$		
P7.9.	Spare pa	rts are available after end of production for: 5 years				
P7.10		s available after end of production for: 5 years				
D7.44*		and substance requirements				
P7.11*		cover/housing material type: ype: ABS Material type: PC Materia	l type: <b>SD-0150</b>			
P7.12		cable insulation materials of power cables are PVC free.	Ttype. <b>3D-0130</b>		$\square$	
P7.13		cable insulation materials of signal cables are PVC free		- #		⊢⊢
P7.14		/housing plastic parts >25g are free from chlorine and bromine.				╞
P7.15		d circuit boards (without components) >25g are halogen free. as defined in IEC61249	-2-21 (See Not			╞
11.10	B2)			•		
P7.16	Flame ref	tarded plastic parts >25g in covers / housings are marked according ISO 1043-4:				$\boxtimes$
	Marking:					
P7.17	Alt. 1 Chemica	I specifications of flame retardants in printed circuit boards >25g (without components	).	$\boxtimes$		
		additive) , TBBPA (reactive), Other; chemical name:, CAS #:	)-			
	Alt. 2			_		_
	Chemica 1043-4:	I specifications of flame retardants in printed circuit boards (without components) >250	J according ISO		$\bowtie$	
P7.18	Alt. 1					
17.10		etarded plastic parts >25g contain the following flame retardant substance	s/preparations i	n 🗌		$\square$
	concentra	ations above 0.1%:				
		t: No legal limits exist, this is a market requirement.				
		a list of all used flame retardants including MSDS for each flame retardant. The chemical name, CAS number and supplier.	list must contai	n		
	•	cal name: , CAS #: , Supplier:				
	2. Chemi	cal name: , CAS #: , Supplier:				
		cal name: , CAS #: , Supplier:				
	Alt. 2	Lesseifiertiens of flows retardants is plastic parts > 25s seconding 100, 4042, 4				$\boxtimes$
	Chemica	I specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19		arts >25g are free from flame retardant substances/ preparations above 0.1% classifie	d as R45, R40,	$\boxtimes$		
P7.20		3, R50, R51, R53, R60, R61 and any combination of these (See Note B3) lastic parts' weight >25g, recycled material content is 47.5%. (EPEAT calculation) / 4	95% (TCO			
	calculati	ion)	55/0 (100			
P7.21		lastic parts' weight >25g, biobased material content is 0%.				
P7.22		rces are free from mercury				
P8	Batteries					
P8.1*	-	hemical composition:				
P8.2	Batteries	meet the requirements of the following voluntary program/s:				$\bowtie$

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	nel "	<u>T245</u>									
Issue date *	ŧ	2014-12-	05				Logo		leno	vo	,
Product o	nvironn	nontal a	ttributes - Marke	t requirements (	continued)				Requir	omoni	
met		inentai a	tillibutes - Marke	t requirements (t	Jontinueuj				Requir	emem	•
Item									Yes	No	n.a
P9	Energy of	consump	tion								
			following power level oped w/ WOL Enabled		tions are reported:	See P14			$\boxtimes$		
Energy mode *		Power level at <b>100</b> V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / test method		for ene	ergy mod	es and		
Peak (On-max)			23.93W	23.86W	23.81W	Full load					
Category	<u>A v</u>										
Idle State -	WOL Ena	abled	23.93W	23. 86W	<b>23.</b> <i>81</i> W	Use for Ene	ergy Star	V5 regi	stration	(P <sub>idle</sub> )	
Sleep (S3) -	WOL En	nabled	0.47W	0.47W	0.4W	Use for Ene	ergy Star	V5 regi	stration	( <b>P</b> <sub>sleep</sub> )	
Sleep (S3) -	WOL Di	sabled	0.47W	0.47W	0.4W	Reference					
Off (S5) - W	/OL Enab	oled	0.11W	0.11VV	0.11W	Use for Ene	ergy Star	V5 regi	stration	(P <sub>off</sub> )	
Off (S5) - W	OL Disal	bled	0.11W	0.11W	0.11W	Use for ErF	)				
<b>Category</b>	<u>' B</u>										
			W	W	W	(P <sub>idle</sub> )					
			W	W	W	(P <sub>sleep</sub> ,	)				
			W	W	W						
			W	W	W	(P <sub>off</sub> )					
			W	W	W						
EPS No-load (External pow charger plug outlet but dis the product.)	wer suppliged in the sconnecte	e wall	W	W	W						
TEC Typical Ener	gy Consu	umption	kWh/week	kWh/week	kWh/week						
ETEC * Annual Ener	gy Consu	umption	63.88kWh/year	63.69kWh/year	63.50kWh/year	$E_{TEC} = (8760)$ + $P_{idle} \times 0.3$	,	(P <sub>off</sub> x (	0.6 + P <sub>s/ee</sub>	<sub>ep</sub> x 0.1	
			Poff: Off Mode(S5) - I	NOL Enabled; P <sub>sleep</sub> :	Sleep Mode(S3) - WO	L Enabled; P <sub>id</sub>	<sub>le</sub> : Idle Sta	te - WO	. Enabled		
Display reso	lution :	1920*120	00Megapixels								
Print Speed	:	Images p	er minute								$\mathbf{\mathbf{x}}$
Default time	to enter e	energy sav	e mode: 15 seconds								
P9.2*	Informatio	on about t	he energy save functi	on is provided with th	e product.				$\boxtimes$		
		STAR®	the energy requirement version: Version6.0								
P10	Emissio	ns									
			Declared according t	o ISO 9296					La al		1
P10.1	Mode		Mode description		Declared A-weighted sound power level $L_{WAd}$ (B)	sound Operator pos		level $L_{I}$			-
						Des or Desk	ktop 🔀 side 🗌	· · ·	if produc erator att		
	Idle		* HDD: Idle		*						
	Operation		* HDD: Operating		*						
	Other mo		ıg to: 🛛 ISO7779 🗌								-
			Other	(only if not covere	d by ECMA-74 with		ment dist	ance	m)		
P10.2	The prod	uct meets	the acoustic noise re	quirements of the foll	owing voluntary prog	gram/s:					$\geq$

		T2454pA				
Issue dat	e *	2014-12-05	Logo	eno	VO.	
	environr	nental attributes - Market requirements (continued)	F	equire	ment	
Item				Yes	No	n.a
ILEITI	Chomics	Il emissions from printing products		165	NU	n.a.
P10.3*						$\square$
P10.4		ormed according to ECMA-328 (ISO/IEC 28360) standard , other specify:				
P10.4	• •	mission rate (print phase) is (mg/h):				Å
D10 E		Dust         Ozone         Styrene         Benzene         TVOC           I emission requirements of the following voluntary program/s         are met for :         Image: Style in the following voluntary program/s         are met for :				
P10.5			туос 🗌			$\bowtie$
		nagnetic emissions				
P10.6		r display meets the requirement for low frequency electromagnetic fields of the followin	a voluntarv			
		s: TCO 6.0	5			
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 th	e 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	ay meets the ergonomic requirements of ISO 9241-307 for visual display technologies		$\square$		
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   Product	backaging material type(s): EPE+怕       weight (kg): 1.6         backaging material type(s): PE Bag       weight (kg): 0.054         backaging material type(s): Paper       weight (kg): 0.08         backaging material type(s):Carton       weight (kg): 1.17         backaging material type(s):       weight (kg): 1.17				
P13.2*	Product	plastic packaging is free from PVC.	$\boxtimes$			
P13.3*	Electroni	nedia for user and product documentation (tick box): c ⊠, Paper ⊠, Other □				
P13.4*		r user and product documentation, please specify contained percentage of post-consul fiber: 70% (Japan only 70%)	mer			$\square$
P14		al information (See Note B4)				
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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