

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			
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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 *	LS2023 Wide				
Model number *	M/T: 3778				
Issue date *	2012.08.16				
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	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 control such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	LS2023 Wide	M/T: 3778		
Issue date *	2012, August 16		Logo	lenovo.

Product	environmental attributes - Legal requirements	Requirement 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				
P1.4*	concentration values. Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated				
	terphenyl (PCT) in preparations (see legal reference).		<u> </u>		
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).				
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)				
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/cm²/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.	\boxtimes		Ш	
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)				
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 contents are the product of the				
P3	or data integrity reasons do not have to be "easily removable". (See legal reference) Safety, EMC connection to the telephone network and labeling				
P3.1*	The product complies with legally required safety standards as specified (see legal reference).				
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).		\dashv	╫	
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies	\overline{X}	∺	- - -	
	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).				
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).	<u> </u>	<u> </u>		
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).		<u> </u>		
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 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).			<u> </u>	
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal 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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Product	environmental attributes - Market requirements - Environmental conscious design	Require	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								
P7.2*	Plastic materials in covers/housing have no surface coating.		\boxtimes						
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.	\boxtimes							
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	$\overline{\boxtimes}$							
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		$\overline{\Box}$	$\overline{\Box}$					
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ	Ħ					
	Product lifetime								
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\square		П					
P7.8*	Upgrading can be done using commonly available tools		Ħ	Ħ					
P7.9.	Spare parts are available after end of production for: 5 years			∺					
P7.10		_		╫					
1 7.10	Service is available after end of production for: 5 years Material and substance requirements								
P7.11*	Product cover/housing material type:								
	Material type: ABS Material type: PC Material type:								
P7.12	Electrical cable insulation materials of power cables are PVC free.								
P7.13	Electrical cable insulation materials of signal cables are PVC free	- H		╫					
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.			+					
				 					
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)	Э 📙	\boxtimes						
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:		П						
	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 #:								
	All O								
	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according								
	ISO 1043-4: Brominated Epoxy Resin See P14		ш						
P7.18	Alt. 1								
	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in	n 🔲							
	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							
	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,			П					
	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 85%.								
P7.21	Of total plastic parts' weight >25g, biobased material content is %.								
P7.22	Light sources are free from mercury								
P8	Batteries								
P8.1*	Battery chemical composition:								
P8.2	Batteries meet the requirements of the following voluntary program/s:			\mathbb{X}					

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 nun	nber *	LS20	23 Wide	M/T: 37	778						
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Droduot o	Product environmental attributes - Market requirements (continued) Requirement met								mot		
Item	HIVITOIII	nemai ai	tributes - Market	requiremen	nis (co	mimueu)			Yes		n.a.
P9	Energy	consumpt	tion						100	110	11.4.
9.1			e following power lev oped w/ WOL Enable		consun	nptions are report	ed: See P14				
Energy mo	de *		Power level at 100 V AC	Power lev		Power level at 230 V AC	Reference and test me		rd for energy	modes	
Peak (On-	max)		17.13W	17.2 W		17.34 W	Full load				
Category	<u>у А</u>		l	I	ı						ı
Idle State	- WOL Er	nabled	14.4 W	14.3 W		14.4W	Use for En	ergy Star	V5 registration	n(P _{idle})	
Sleep (S3)	- WOL E	nabled	0.19W	0.2 W		0.26 W	Use for En	ergy Star	V5 registration	n(P _{sleep})	
Sleep (S3)	- WOL D	isabled	0.19W	0.2 W		0.26 W	Reference			-	
Off (S5) - V	VOL Ena	bled	0.15 W	0.16 W		0.23 W	Use for En	ergy Star	V5 registration	n(P _{off})	
Off (S5) - V	NOL Disa	abled	0.15 W	0.16 W		0.23 W	Use for Eu	ıΡ			
Category	<u>у В</u>		l		ı						ı
Idle State	- WOL Er	nabled	W	W		W	Use for En	ergy Star	V5 registration	n(P _{idle})	
Sleep (S3)	- WOL E	nabled	W	W		W	Use for En	ergy Star	V5 registration	n(P _{sleep})	
Sleep (S3)	- WOL D	isabled	W	W		W	Reference	1			
Off (S5) - V	VOL Ena	bled	W	W		W	Use for En	ergy Star	V5 registration	n(P _{off})	
Off (S5) - V	NOL Disa	abled	W	W		W	Use for Eu	ıP			
EPS No-loa	ad		W	W		W					
(External p charger plu outlet but d the product	igged in this	ne wall									
TEC Typical Ene	ergy Cons	sumption	kWh/week	kWh/v	week	kWh/week					
ETEC * Annual Ene	ergy Cons	sumption	46.0kWh/year	46.2 kWh/ye	ear	47.0kWh/year	$E_{TEC} = (870)$ $0.1 + P_{idle} \times$		$(P_{off} \times 0.6 +$	P _{sleep} X	
			P _{off} : Off Mode(S5) -	WOL Enabled;	P _{sleep} : S	Sleep Mode(S3) - WC	OL Enabled; P	idle: Idle Sta	te - WOL Enable	d	1
Display res	olution	1600 X 9	000 Megapixels								
Print Speed	: t	: Ima	ages per minute								\boxtimes
Default time	e to enter	energy sa	ve mode: 7 seconds	3							
P9.2*	Informati	ion about t	the energy save fund	ction is provid	led with	the product.					
P9.3*			the energy requirent version: Version 5.0								
P10	Others s Emissio										
FIU			Declared according	to ISO 9296							
P10.1	Mode	N	Mode description			Declared A-weighted			\-weighted		
						sound power	sound	pressure l	evel $L_{p{\sf Am}}$ (dE		
						level L_{WAd} (B)	Operator pos Des	sition 🔀	Bystander po		
							or Desk	side 🔲	(only if product operator att		
	Idle		HDD: Idle			* 14.37			,		
	Operatio		HDD: Operating			* 14.37					
	Other mo		na to: 🔽 1007770	ECMA 74		1					1
	weasure	accordir	ng to: X ISO7779 L Other	ECMA-74		ov ECMA-74 with I	.nam measuren	nent distar	nce m)		
P10.2	_										

Woder Hai	iibei	LS2023 Wide W/1: 3778					
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Product	environn	nental attributes - Market requirements (continued)		R	equire	ment	met
Item					Yes	No	n.a.
	Chemica	al emissions from printing products					
P10.3*		formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:					\boxtimes
P10.4		emission rate (print phase) is (mg/h):					$\overline{\boxtimes}$
		Dust Ozone Styrene Benzene TVOC					
P10.5	Chemica	al emission requirements of the following voluntary program/s are met f	for :				\boxtimes
		Dust Ozone Styrene Benzene	TVOC		_	_	
		nagnetic emissions					
P10.6	Compute	er display meets the requirement for low frequency electromagnetic fields of th	e following volu	ntary	\boxtimes		
	program						
P11		nable materials for printing products					
P11.1*	-	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally					\boxtimes
P11.2*	EN1228		ets the requiren	nents of			
P11.3*	2-sided (duplex) printing/copying is an integrated product function.						\boxtimes
P12	Ergonor	mics for computing products					
P12.1*	The disp	olay meets the ergonomic requirements of ISO 9241-307 for visual display tech	nnologies.		\boxtimes		
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410.			\boxtimes		
P13		ng and documentation					
P13.1*		packaging material type(s): EPS weight (kg): 0.2					
		packaging material type(s): Carton weight (kg): 0.7					
		packaging material type(s): PE weight (kg): 0.065					
P13.2*		plastic packaging is free from PVC.			\boxtimes		
P13.3*	Specify media for user and product documentation (tick box):						
		ic 🔀, Paper 🔀, Other 🗌					
P13.4*		er user and product documentation, please specify contained percentage of po 5% (Japan only 70%)	ost-consumer re	cycled			
P14	Addition	nal information (See Note B4)					

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