

## 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 *	ThinkPad	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/environmen	t.html
Additional information		

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 *	otebook PC				
Commercial name *	enovo M490s				
Model number *	MT: 6275, 6276, 20214, 20215				
Issue date *	012/12/03				
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			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).	I 🔀	

## Model number \* Lenovo M490s MT: 6275, 6276, 20214, 20215 Issue date \* 2012, Nov. 23 L

Logo lenovo.

Produc	Product environmental attributes - Legal requirements							
Item		Require 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.	$\square$						
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).	$\square$						
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/environment.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)	$\boxtimes$						
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, medica 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).							
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).	$\square$						
P4	Consumable materials	دے						
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 and hexavalent chromium by weight of these together.	z K						
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	$\boxtimes$						
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	I 🔀						

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

Model nu	<sup>odel number*</sup> Lenovo M490s MT: 6275, 6276, 20214, 20215						
Issue date *		2012, Nov. 23 Logo			enovo		
		mental attributes - Market requirements - Environmental conscious design		remen	t met		
Item P6		atory to fill in. Additional information regarding each item may be found under P14.	Yes	s No	n.a.		
P6.1*		ion for recyclers/treatment facilities is available (see legal reference).					
P7	Design						
	Disasse	mbly, recycling					
P7.1*	Parts that	at have to be treated separately are easily separable	$\square$				
P7.2*	Plastic m	naterials in covers/housing have no surface coating.	$\square$				
P7.3*		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.	$\square$				
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available too	ols. 🛛 🔀				
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).	$\times$				
	Product	lifetime					
P7.7*	Upgradir	ng can be done e.g. with processor, memory, cards or drives	$\boxtimes$				
P7.8*	Upgradir	ng can be done using commonly available tools	$\square$				
P7.9.	Spare pa	arts are available after end of production for: <b>5</b> years	······				
P7.10		s available after end of production for: 5 years					
	Material	and substance requirements					
P7.11*	Product	cover/housing material type:					
	Material	type: PC+ABS-FR(40) Material type: Material type:					
P7.12		I cable insulation materials of power cables are PVC free.	$\square$				
P7.13		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.	$\square$				
P7.15		ed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21.	(See 🔀				
	Note B2						
P7.16	Flame re Marking:	etarded plastic parts >25g in covers / housings are marked according ISO 1043-4: FR(40)					
P7.17	Alt. 1	l en s'élections d'électre estendents is seisted sins été servis de la CER (sithest servis servis).			_		
		al specifications of flame retardants in printed circuit boards >25g (without components):	$\boxtimes$				
	Alt. 2	(additive) 🔲, TBBPA (reactive) 🔀, Other; chemical name: , CAS #:					
		al specifications of flame retardants in printed circuit boards (without components) >25g accord	ina				
		3-4: <i>FR(40)</i>	Ĩ 🛛				
P7.18	Alt. 1						
		etarded plastic parts >25g contain the following flame retardant substances/preparation ations above 0.1%:	ns in				
		nt: 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 co	ntain				
		e chemical name, CAS number and supplier.					
		ical name: , CAS #: , Supplier:					
		ical name: , CAS #: , Supplier: ical name: , CAS #: , Supplier:					
	Alt. 2						
		al specifications of flame retardants in plastic parts >25g according ISO 1043-4:					
	FR(40)						
P7.19		arts >25g are free from flame retardant substances/ preparations above 0.1% classified as R4 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	5, 🔀				
P7.20		plastic parts' weight >25g, recycled material content is 0 %.					
P7.21		plastic parts' weight >25g, biobased material content is <b>0%</b> .					
P7.22	<u> </u>	urces are free from mercury					
P8	Batterie						
P8.1*	-	chemical composition: Lithium Ion/Lithium Manganese Dioxide		l	<u> </u>		
P8.2	Batteries	meet the requirements of the following voluntary program/s: US RBRC					

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.

Issue date	o *	2012, No	vo M490s	$w_1.0z_13,0$	210, 20214	+, 20213	Logo	-			
ISSUE Gale	e	2012, NO	10. 23				LUGO	le	ΠΟ	10	
Product	environn	nental at	tributes - Market	requirements (c	ontinued)			Re	quiren	nent	me
ltem									Yes	No	n.a
P9		consumpt									
9.1	The proc		e following power lev oped w/ WOL Enable	ed.	· · ·				$\square$		
Energy mo	ode *		Power level at <b>100</b> V AC	Power level at 115 V AC	Power level at 230 V AC	Reference and test me		rd for en	ergy mo	odes	
Peak (On-max)		<b>45/65</b> W	<b>45/65</b> W	<b>45/65</b> W	Full load						
Categor	ry A										
Idle State	- WOL Er	abled	6.85 W	7.43 W	7.84 W	Use for ENE	ERGY ST	AR Regist	ration( <b>P</b> i	<sub>idle</sub> )	
Sleep (S3) - WOL Enabled		0.83 W	0.83 W	0.85 W	Use for ENE	ERGY ST	AR Regist	ration(P	<sub>sleep</sub> )		
Sleep (S3	) - WOL D	isabled	W	W	W	Reference				-	
Off (S5) -	WOL Ena	bled	0.53 W	0.53 W	0.55 W	Use for ENE	ERGY ST	AR Reaist	ration( <b>P</b>		
	WOL Disa		0.36W	0.36W	0.40 W	Use for EuF			1.11.0		┢╞
Categor											
Idle State		abled	8.63W	8.45W	8.68 W	Use for ENE	-RGV QT	AR Regist	ration/P		
			0.68W	0.68W	0.76W	Use for ENE		-			
Sleep (S3							-101 31	AR REYIST	au011( <b>P</b> s	sleep)	
Sleep (S3	·		W	W	W	Reference					
	WOL Ena		0.46 W	0.47W	0.53W	Use for ENE		AR Regist	ration(P	off)	
	WOL Disa	abled	0.29 W	0.29 W	0.37 W	Use for EuF	>				
EPS No-lo (External p charger plu outlet but o the product	power sup ugged in the disconnect	ne wall	<i>0.087</i> W	<i>0.088</i> W	0.137 W						
TEC Typical En	nergy Cons	sumption	kWh/week	kWh/week	kWh/week						
Етес * Annual En	ergy Cons	umption	25.69 kWh/year	25.27 kWh/year	26.26 kWh/year	$E_{TEC} = (876)$ 0.1 + $P_{idle}$ x		x (P <sub>off</sub> x 0	.6 + P <sub>sk</sub>	<sub>eep</sub> X	
			Poff: Off Mode(S5) -	WOL Enabled; P <sub>sleep</sub> :	Sleep Mode(S3) - WO	L Enabled; Pidle	: Idle Stat	e - WOL En	abled		
Display re:	solution	: 1366 )	K 768 Mega	apixels							
Print Spee			Images per minu	•							
			ave mode: Batter		10 modo: 20mino						
P9.2*		•••	the energy save fund	-					$\square$		
P9.3*	The proc	duct meets Y STAR®	the energy requirer version: Version 5.1 VERGY STAR for E	nents of the followin 2 dated July 1, 200	g voluntary program 9 Product category	:	2				
P10	Emissio								~ 1		
P10.1			Declared according	to ISO 9296	Declared		)oolorod	A-weighted			
P10.1	Mode	ľ	viode description		A-weighted sound power			evel $L_{pAr}$			
					level L <sub>WAd</sub> (B)	Operator pos Des or Desk	ktop 🔀	(only if p	der posit roduct is or atten	s not	
	Idle		HDD: Idle		* 2.7		18				
	Operatio Other me		HDD: Operating		* 3.7		27	,			
	Measure	ed accordir	ng to: 🔀 ISO7779 [ Dother m)		covered by ECMA-7	′4 with L <sub>pAm</sub> m	easurem	ent distanc	e		
P10.2	The proc	luct meets	the acoustic noise	requirements of the	following voluntary	program/s:					$\mathbf{X}$

Model nu	<sup>del number</sup> * Lenovo M490s MT: 6275, 6276, 20214, 20215					
Issue date *		2012, Nov. 23	Logo			
				eno		
Product	environn	nental attributes - Market requirements (continued)		Require	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:				$\square$
P10.4	Typical e	emission rate (print phase) is (mg/h):				$\boxtimes$
		Dust Ozone Styrene Benzene TVOC				
P10.5		al emission requirements of the following voluntary program/s are met for :	_			$\bowtie$
<b>D</b> 40.0		nagnetic emissions	1			
P10.6		er display meets the requirement for low frequency electromagnetic fields of the follo /s: MPR-II(3 pin AC adapter only)	owing voluntary			
P11		hable materials for printing products				
P11.1*	•	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requi	, ,			$\boxtimes$
P11.2*	EN1228		e requirements	of 🗌		$\square$
P11.3*	2-sided (	(duplex) printing/copying is an integrated product function.				X
P12		nics for computing products				
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technolog	jies. <mark>See P14</mark>	$\boxtimes$		
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410. See P14		$\boxtimes$		
P13		ng and documentation				
P13.1*		packaging material type(s): Corrugated Cardboard weight (kg): 0.676				
	Product	packaging material type(s): Recycled Polyethylene(RLDPE) weight (kg): 0.21				
P13.2*	Product	packaging material type(s): <i>Others (Plastic bags)</i> weight (kg): 0.02 plastic packaging is free from PVC.				
P13.3*		media for user and product documentation (tick box):				
F13.3		ic $\square$ , Paper $\square$ , Other $\square$				
P13.4*		er user and product documentation, please specify contained percentage of post-cor	nsumer recycled	1		
1 10.4		% (Japan only 70%)				
P14		nal information (See Note B4)				
		Supplier makes no representations, guarantees, assurances or warranties whether				
		ion contained in this document. All information provided by supplier in this documen				
		ge available at the time of completion, and supplier shall have no obligation to updat I here is approximate and provided for informational purposes only. See a Lenovo A				lion
	informati				nore	
P7.17		t does not contain free TBBPA in printed circuit boards(without components)>	25g.			
P9	See ENI	ERGY STAR Qualified Notebooks & Tablet Computers for the latest information				
	http://do	ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls				
P12.1		t is designed to meet the subject ISO Standard 9241-307, but is not confirmed				
P12.2		t is designed to meet the subject ISO Standard 9995 and 9241-410, but is not c	onfirmed throu	gh formal	test	
	method	S.				

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