

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 *	www.pc.ibm.com/ww/lenovo/about/environment	
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 *	Notebook PC			
Commercial name *	Lenovo G550			
Model number *	М/Т:20023, 2958			
Issue date *	2009-Jun-01			
Intended market *	🛛 Global 📃 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other			
Additional information	tional information ENERGY STAR® Qualified; EPEAT GOLD Rating; GREENGUARD Certified			

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Quality Control			Requirement 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 contro such as organized by IT-Företagen (see www.itecodeclaration.org).	bl 🔀			

Issue da	te * 2009-Jun-01 Logo	lend	DVC	>	
Produc	t environmental attributes - Legal requirements	Require	ment	me	
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.	\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).	\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).	\boxtimes			
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.			\boxtimes	
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)			\boxtimes	
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.			\boxtimes	
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5				
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):				
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 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).				
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).	\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				
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).				
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).	\boxtimes			
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).			Ē	

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

Model n		Lenovo G550 M/T:20023, 2958				
Issue da	ate *	2009-Jun-01 Logo		eno	vo	•
Produc	t enviror	nmental attributes - Market requirements - Environmental conscious design	n Re	equire	ment	met
ltem		latory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a
P6		ent information				
P6.1*	Informa	tion for recyclers/treatment facilities is available (see legal reference).		\boxtimes		
P7	Design Disasse	embly, recycling				
P7.1*	Parts th	at have to be treated separately are easily separable		\square		
P7.2*	Plastic r	materials in covers/housing have no surface coating.				
P7.3*	Plastic p	parts >100g consist of one material or of easily separable materials.			Ē	
P7.4*	Plastic p	parts >25g have material codes according to ISO 11469 referring ISO 1043.				
P7.5	Plastic p	parts are free from metal inlays or have inlays that can be removed with commonly availab	le tools.		Ħ	
P7.6*	-	are easily separable. (This requirement does not apply to safety/regulatory labels).			H	
		t lifetime	Ì		· • •	
P7.7*		ing can be done e.g. with processor, memory, cards or drives		\square		
P7.8*		ing can be done using commonly available tools			H	
P7.9.		Parts are available after end of production for: 5 years				
P7.10		· · · · · · · · · · · · · · · · · · ·				
17.10		is available after end of production for: 5 years I and substance requirements				
P7.11*		cover/housing material type:				
		I type: PC+ABS-FR(40) Material type: Material type: Material type:	:			
P7.12		al cable insulation materials of power cables are PVC free.			\square	
P7.13	Electrica	al cable insulation materials of signal cables are PVC free		Ē		
P7.14	All cove	r/housing plastic parts >25g are free from chlorine and bromine.				
P7.15		ed circuit boards (without components) >25g are halogen free. as defined in IEC61249-	-2-21. (See			
P7.16	Flame r	<i>F</i> characteristic parts >25g in covers / housings are marked according ISO 1043-4: (F FR(40))		\square		
P7.17		al specifications of flame retardants in printed circuit boards >25g (without components): (additive) , TBBPA (reactive) , Other; chemical name: , CAS #:				
	Chemic ISO 104	al specifications of flame retardants in printed circuit boards (without components) >25g ac 43-4: Brominated Epoxy Resin See P14	ccording			
P7.18		retarded plastic parts >25g contain the following flame retardant substances/prepatrations above 0.1%:	arations in			
	Provide complet 1. Chen 2. Chen	ant: No legal limits exist, this is a market requirement. a list of all used flame retardants including MSDS for each flame retardant. The list me te chemical name, CAS number and supplier. nical name: , CAS #: , Supplier: nical name: , CAS #: , Supplier:	ust contain			
	Alt. 2 Chemic FR(40)					
P7.19	Plastic p	parts >25g are free from flame retardant substances/ preparations above 0.1% classified a 46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	as R45,	\square		
P7.20		plastic parts' weight >25g, recycled material content is 0%.				
P7.21		plastic parts' weight >25g, biobased material content is 0%.				
P7.22		purces are free from mercury		\square		
P8	Batterie					
P8.1*	-	chemical composition: Lithium Ion/Lithium Manganese Dioxide				
P8.2	Batterie	s meet the requirements of the following voluntary program/s: US RBRC				
1 0.2	Batterie	s meet the requirements of the following voluntary program. S. Compression				

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 number *	Lenc	ovo G550 N	<i>I/T:20023</i> ,	2958			
Issue date *	2009-Ju				Logo	lenovo	
Product environ	mental at	ttributes - Market	requirements (c	ontinued)		Requirement	met
Item						Yes No	n.a.
••	y consump						
		e following power lev pped w/ WOL Enable		imptions are reporte	ed: See P14		
Energy mode *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard and test method *	for energy modes	
Peak (On-max)		90 W	90 W	90 W	Full load		
Category A							
Idle State - WOL E	Enabled	10.1 W	10.1 W	10.8 W	Use for Energy Star V5	registration(P _{idle})	
Sleep (S3) - WOL	Enabled	0.85 W	0.86 W	1.01 W	Use for Energy Star V5 registration(Ps		
Sleep (S3) - WOL	Disabled	W	W	W	Reference		
Off (S5) - WOL En	abled	0.43 W	0.47 W	0.58 W	Use for Energy Star V5	registration(Poff)	Ē
Off (S5) - WOL Dis	sabled	W	W	W	Use for EuP		
Category B							
Idle State - WOL E	Enabled	15.1 W	15.1 W	16.7 W	Use for Energy Star V5	registration(P _{idle})	\square
Sleep (S3) - WOL	Enabled	0.93 W	0.95 W	1.04 W	Use for Energy Star V5	registration(P _{sleep})	
Sleep (S3) - WOL	Disabled	W	W	W	Reference		
Off (S5) - WOL En		0.50 W	0.52 W	0.61 W	Use for Energy Star V5	registration(Poff)	
Off (S5) - WOL Dis	sabled	W	W	W	Use for EuP		
EPS No-load		0.22 W	0.22 W	0.27 W			
(External power su charger plugged in outlet but disconne the product.)	the wall						
TEC Typical Energy Cor	nsumption	kWh/week	kWh/week	kWh/week			
Етес *		29.5 kWh/week	29.7 kWh/week	32.2 kWh/week	$E_{\text{TEC}} = (8760/1000) \times (1000)$	$P_{off} \times 0.6 + P_{sleep} \times$	
Annual Energy Consumption		43.3 kWh/week	43.9 kWh/week	48.1 kWh/week	$0.1 + P_{idle} \times 0.3)$	·	
		Poff: Off Mode(S5) -	WOL Enabled; P _{sleep} :	Sleep Mode(S3) - WC	DL Enabled; P _{idle} : Idle State -	WOL Enabled	
Display resolution	: 1366x7	68 Megapixels					
Print Speed :		Images per minute					\square
Default time to ente	er energy sa	save mode: minutes					
P9.2* Informa	ation about	out the energy save function is provided with the product.					
ENER	GY STAR®	s the energy requiren version: Version 5.0) dated July 1, 200	9 Product category:	A		
P10 Emiss	<u> </u>	nergy Star for Extern	nai rower supplie				
Noise	emission –	- Declared according	to ISO 9296	· · · · · · · · · · · · · · · · · · ·			
P10.1 Mode		Mode description		Declared A-weighted	Declared A-w	0	
				sound power	sound pressure leve		
				level L_{WAd} (B)		Bystander positions	
					Desktop 🔀 or Desk side 🗍 🤇	only if product is not	
Idle		* HDD: Idle		* 2.29	22.9	operator attended)	
Operat	ion	* HDD: Operating		* 4.5	45		님
Other r		,					
Measu	red accordi	ng to: 🔀 ISO7779 [ECMA-74				1
		Other	· · ·		h L _{pAm} measurement dista	nce m)	
P10.2 The pro	oduct meets	s the acoustic noise i	requirements of the	following voluntary	program/s:		

Model nu	mber *	Lenovo G550 M/T:20023, 2958					
Issue date *		2009-Jun-01 Logo			lenovo		
	environn	nental attributes - Market requirements (continued)		Require		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	Typical e	emission rate (print phase) is (mg/h):				\boxtimes	
		Dust Ozone Styrene Benzene TVOC					
P10.5		I emission requirements of the following voluntary program/s are met for :	_			\boxtimes	
		Dust Ozone Styrene Benzene TVC	C				
		nagnetic emissions					
P10.6		er display meets the requirement for low frequency electromagnetic fields of the following /s: MPR-II	g voluntary	\square			
P11		hable 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 c EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets the re	quirements o	of 🗌		\boxtimes	
P11.3*	2-sided ((duplex) printing/copying is an integrated product function.				\times	
P12	Ergonor	nics for computing products					
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	See P14	\boxtimes			
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410. See P14		\boxtimes			
P13	Packagi	ng and documentation					
P13.1*		packaging material type(s): Corrugated cardboard weight (Kg): 0.36 Kg					
		packaging material type(s): <i>Polystyrene</i> weight (Kg): 0.00 Kg					
		packaging material type(s): <i>Polyethylene</i> weight (Kg): 0.4 Kg					
P13.2*		plastic packaging is free from PVC.		\square			
P13.3*		nedia for user and product documentation (tick box):					
		ic 🔀, Paper 🔀, Other 📃					
P13.4*		er user and product documentation, please specify contained percentage of post-consun % (Japan only 70%)	ner recycled				
P14		nal information (See Note B4)					
	NOTE:	Supplier makes no representations, guarantees, assurances or warranties whether expl	ess or implie	d, regardii	ng the		
		on contained in this document. All information provided by supplier in this document is p				ion	
	knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more						
	information.						
P7.17		does not contain free TBBPA in printed circuit boards(without components)>25g.					
P9	See Energy Star Qualified Notebooks & Tablet Computers for the latest information:						
	http://downloads.energystar.gov/bi/qplist/laptops_prod_list.xls						
P12.1	Product	is designed to meet the subject ISO Standard 9241-307, but is not confirmed thro	ugh formal t	est metho	ods.		
P12.2		is designed to meet the subject ISO Standard 9995 and 9241-410, but is not confi	rmed throug	h formal t	test		
	method						

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