

## 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 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 *	Workstation			
Commercial name *	Thinkstation E31 SFF;			
Model number *	<b>SFF</b> :3688,3690,3691,3693,3695			
Issue date *	2012.06.14			
Intended market *	🔀 Global 📃 Europe 📃 Asia, Pacific & Japan 📃 Americas 📃 Other			
Additional information	ENERGY STAR® Qualified; EPEAT Gold Rating, GREENGUARD Certification, .			

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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 contro such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	Thinkstation E31 SFF		
Issue date *	2012.06.14	Logo	

lenovo

P1       Hazardous substances and preparations         P1.11       Products do not contain more than: 0.1% lead, 0.01% cadmium, 0.1% nervoury, 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).       Image: Comment Legal reference has no maximum concentration value.       Image: Comment Legal reference has no maximum concentration value.         P1.3*       Products do not contain More than: 0.05%, polychlorinated biphenyl (PCB), polos% polychlorinated to the total status and the comment Legal reference).       Image: Comment Legal reference).         P1.4*       Products do not contain more than: 0.05%, polychlorinated biphenyl (PCB), polos% polychlorinated tophenyl (PCB),	Product	Product environmental attributes - Legal requirements				
P1.1*       Products do not contain more than, 0.1% lead, 0.01% polybrominated biphenyls (PBDE). (See legal reference and Note B1)       Image: Control Additional Additad Additional Additional			Yes	No	n.a.	
chromium, 0.1% polyborninated biphenyls (PBB) or 0.1% polyborninated diphenyl ethers (PBDE). (See legal reference and Note B1)           P1.2*         Products do not contain Abbestos (see legal reference), Comment: Legal reference has no maximum concentration value,         Image: Control (CPC), Nators, Carbon terachonde, 1,1,1- trichloroethane, methyl bromide (see legal reference). Comment: Legal reference), has no maximum concentration values.         Image: CPC, Nators, Carbon terachonde, 1,1,1- trichloroethane, methyl bromide (see legal reference). Comment: Legal reference).         Image: CPC, Nators, Carbon terachonde, 1,1,1- trichloroethane, methyl bromide (see legal reference).           P1.4*         Products do not contain more than 0.00% polycholrinated biphenyl (PCB), noto5% polycholrinated terphenyl (PCT) in preparations (see legal reference).         Image: CPC, Nators, CPC,						
Comment: Legal reference has no maximum concentration value.       Image: Comment: Legal reference has no maximum concentration values.         P1.3*       Products do not contain Orzen benjeting Substances: Chlorofluorocarbons (ICFC), Hydrochronfluoreathons, methyl bromide (see legal reference). Comment: Legal reference).       Image: Comment: Legal reference).         P1.4*       Products do not contain more than: 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated temphenyl (PCT) in preparations (see legal reference).       Image: Comment: Legal reference).         P1.5*       Products do not contain more than: 0.1% short chain chloroparatifins (SCCP) with 10-13 carbon atoms in the chain contain mig at least 48% per mass of chlorine in the SCCP (see legal reference).       Image: Comment: Legal reference has no maximum concentration values.         P1.6*       Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split arrevical and hole B1       Image: Comment. Legal reference has no maximum concentration values.         P1.8*       Wooden parts do not contain arsenic and hole B1       Image: Comment. Legal reference has no maximum concentration values.       Image: Comment. Legal reference has no maximum concentration values.         P1.8*       Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 mittorgam/cm/wek (see legal reference).       Image: Comment. Legal reference has no maximum concentration values.         P1.9*       Parts with direct and prolonged skin contact do not release nickel in contact): http://www.lenovo.com/social. respons/biblity/us/en/ThinkGr	P1.1*	chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See				
P1.3*       Products do not contain Ozone Depleting Substances: Chlorofluorocathons (CFC).       Image: CFC).	P1.2*		$\square$			
hydrobromofluorocarbons (HBFC), hydrochlorofluorachons (HCFC), Halons, carbontetrachloride, 1,1,1-t         trichlorothane, 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 temphenyl (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 contain more tane 0.003% Azo colorants that split         P1.6*       Trise (azindinyl) phosphinexide (TEA), polyborninated biphenyl (PBB) (see legal reference).         Comment: Legal reference has no maximum concentration values.         P1.7*       Testile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference).         Comment: Legal reference has no maximum concentration values.         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 microardmcm <sup>2</sup> /week (see legal reference).         Comment: Legal reference has no 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% relead, it shall be marked with the chemical symbol by ether users or service provide	P1.3*		$\square$			
concentration values.       P14*         P14*       Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain contraining at least 48% per mass of chlorine in the SCCP (see legal reference).         P1.6*       Products do not contain more than 0.1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain contraining 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 more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)         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 chronium 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 rotelas arsenic and chronium 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 rotelas arsenic and chronose in articles is available at (ad URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.htmittenvironment         P2.1*       If the product contains a battery or an accumulator, it is labeled with the disposal						
terphenyl (PCT) in preparations (see legal reference).       Image: Constrain more than 0.1% short chain chloroparatfins (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), Tri-(zaridinyl)-phosphate parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)         P1.7*       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 chronium as a wood preservation treatment as well as pentachiorophenol 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/week (see legal reference).       Comment: Max limit in legal reference).         Comment: Max limit in legal reference when tested according to EN1811:1998.         P1.0*       REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en17/hink/Green_products.htmittlenvironment         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 0.002% of cardinim. (Se		concentration values.				
the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).       Image: 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 more than 0.003% Azo colorants that split       Image: Containine		terphenyl (PCT) in preparations (see legal reference).				
Tris-(azirdinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference).       Image: 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 irramines. (See legal reference) and Note B1)       Image: Comment: Legal reference has no maximum concentration values.         P1.8*       Wooden parts do not contain arsenic and formonium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference).       Image: 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       Image: Comment: Max limit in 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.lenvox.com/social_responsibility/us/enr/ThinkGreen_products.html#environment         P2.1*       If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.005% of mercury of DuotS% of reacury or 0.002% of cadmium. Other batteries or accumulators do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 2% by weight of mercury. Other batteries or accumulators do not charten more than 2% of cadmium.         P2.2*       Button cells used in the product do not contain more than 2% of cadmium.       Elegal reference).         P3.1*       The pro	P1.5*	the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).				
P1.7*       Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split       Image: Control of Contrecont of Context of Control of Control of Control of C	P1.6*	Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference).	,			
P1.8*       Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference).       Image: 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).       Image: 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         P2.1*       If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if to 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*       Buttone cells used in the product do not contain more than 2% by weight of mercury. Other batteries or 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).         P3.1*       The product complies with legally required standards as specified (see legal reference).         P3.2*       The product complies with legally required standards for electromagnetic compatibility (see legal reference).         P3.3*	P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split			$\boxtimes$	
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/an/ThinkGreen_products.html#tenvironment       Image: Comment: Max limit in legal reference when tested according to EN1811:1998.         P2.1"       If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.005% 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 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).         P3.1"       The product complies with legally required safety standards as pecified (see legal reference).         P3.1"       The product complies with legally required standards for electromagnetic compatibility (see legal reference).         P3.2"       The product is inten	D4 0 <sup>t</sup>					
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#tenvironment         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 to not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.005% of mercury or 0.002% of cadmium. (See legal reference)         P2.3*       Batteries and accumulators are easily removable <sup>4</sup> . (See legal reference)         P3.3*       The product complies with legally required standards for electromagnetic compatibility (see legal reference).         P3.4*       The 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 intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (	P1.8*	pentachlorophenol and derivatives (see legal reference).				
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):       Image: Content of Content on Content Content on Content Content Content Content Content Content Content Content Content Cont	P1 9*					
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*       Buttories         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)         P3.1*       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).         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 electromagnetic (see legal reference).         P3.4*       The product is labeled to show conformance with applicable legal reference).         P4.4*       Consumable materials         P4.1*       If a photo conductor (drum, belt etc.) is us	11.5	microgram/cm <sup>2</sup> /week (see legal reference).				
http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.html#tenvironment         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 0.005% 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 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)         P3.1*       The product complies with legally required safety standards as specified (see legal reference).         P3.2*       The product complies with legally required safety standards as pecified (see legal reference).         P3.4*       The product complies with legally required standards for electromagnetic compatibility (see legal reference).         P3.4*       The product is labeled to show conformance with applicable legal reference).       P4.1*         P4.2*       If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).       P4.1*         P4.1*       If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference). <t< td=""><td>P1.10*</td><td>REACH Article 33 information about substances in articles is available at (add URL or mail contact):</td><td><math>\square</math></td><td></td><td></td></t<>	P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	$\square$			
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 remercury 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 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 electromagnetic compatibility (see legal reference).         P3.4*       The product is labeled to show conformance with applicable legal reference).         P3.4*       The product is used in the product, it does not contain cadmium max 0.01% (see legal reference).         P4.4*       If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference).	-					
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 0.005% 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).         P3.2*       The product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for electromagnetic compatibility (see legal reference).         P3.3*       If product is labeled to show conformance with applicable legal reference).         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).         P4.2*       If 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).						
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).         P3.3*       If product complies with legally required standards for electromagnetic compatibility (see legal reference).         P3.4*       The 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).         P3.4*       The product, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference).         P4.1*       If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).         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 for	P2.1*	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				
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).         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 of drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference).         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).         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).         P5.1*       Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of t	P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or				
P3.1*       The product complies with legally required safety standards as specified (see legal reference).       Image: Comparison of the product complies with legally required standards for electromagnetic compatibility (see legal reference).         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).         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).         P4.2*       If 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 intervent.	P2.3*	design of the product). Exception: Batteries that are permanently installed for safety, performance, medic				
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).         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).         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.	P3	Safety, EMC connection to the telephone network and labeling				
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*         P3.4*       The product is labeled to show conformance with applicable legal requirements (see legal reference).       Image: 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).         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.	P3.1*	The product complies with legally required safety standards as specified (see legal reference).	$\square$			
with legally required standards for radio and telecommunication devices (see legal reference).       Image: Construct of the product of the product of the product of the product, it does not contain cadmium max 0.01% (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).         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.	P3.2*		$\square$			
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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).         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.	P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	$\square$			
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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.	P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			$\boxtimes$	
P5.1* Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	P4.3*	product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these				
hexavalent chromium by weight of these together.	P5					
		hexavalent chromium by weight of these together.	nd 🔀			
P3.2° Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	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 Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	P5.3*	Protocol (see legal reference).	al 🔀			

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

Model nu	umber *	Thinkstation E31 SFF				
Issue da	te *	2012.06.14 Log	go 🚺	eno	vo	
Product	tenviron	mental attributes - Market requirements - Environmental conscious desi	an Re	equire	ment	met
Item		atory to fill in. Additional information regarding each item may be found under P14.	911 100	Yes	No	n.a.
P6		nt information				
P6.1*	Informat	ion for recyclers/treatment facilities is available (see legal reference).		$\boxtimes$		
P7	Design Disasse	mbly, recycling				
P7.1*		at have to be treated separately are easily separable		$\square$		
P7.2*	Plastic n	naterials in covers/housing have no surface coating.				Π
P7.3*	Plastic p	arts >100g consist of one material or of easily separable materials.				Π
P7.4*	Plastic p	arts >25g have material codes according to ISO 11469 referring ISO 1043.			Ē	Π
P7.5	-	arts are free from metal inlays or have inlays that can be removed with commonly avail	able tools.		Ħ	Ħ
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).			H	H
	Product					
P7.7*		ng can be done e.g. with processor, memory, cards or drives		$\square$		
P7.8*		ng can be done using commonly available tools			Ħ	Ħ
P7.9.		arts are available after end of production for: 5 years				⊢⊢
P7.10		is available after end of production for: 5 years				H
		and substance requirements				
P7.11*		cover/housing material type:				
		type: ABS Material type: PC/ABS Material type	e: Steel			
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				
P7.14	All cover	/housing plastic parts >25g are free from chlorine and bromine.			Ē	Π
P7.15		ed circuit boards (without components) >25g are halogen free. as defined in IEC6124	9-2-21. (See			
P7.16		tarded plastic parts >25g in covers / housings are marked according ISO 1043-4:		$\square$		
P7.17	TBBPA ( Alt. 2 Chemica	al specifications of flame retardants in printed circuit boards >25g (without components) (additive) , TBBPA (reactive) , Other; chemical name: , CAS #: al specifications of flame retardants in printed circuit boards (without components) >25g 3-4: Brominated Epoxy Resin See P14				
P7.18	Alt. 1 Flame r concentr	etarded plastic parts >25g contain the following flame retardant substances/pre rations above 0.1%:	parations in			
	Provide complete 1. Chem 2. Chem	<ul> <li>ht: No legal limits exist, this is a market requirement.</li> <li>a list of all used flame retardants including MSDS for each flame retardant. The list rechemical name, CAS number and supplier.</li> <li>ical name: , CAS #: , Supplier:</li> <li>ical name: , CAS #: , Supplier:</li> <li>ical name: , CAS #: , Supplier:</li> </ul>	nust contain		_	_
		al specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	R40, R4	arts >25g are free from flame retardant substances/ preparations above 0.1% classified 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	d as R45,	$\square$		
P7.20		plastic parts' weight >25g, recycled material content is SFF: 45.42%				
P7.21		blastic parts' weight >25g, biobased material content is 0%.				
P7.22		urces are free from mercury				$\square$
P8.1*	Batterie					
	-	chemical composition:				
P8.2	Datteries	meet the requirements of the following voluntary program/s:				$\geq$

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 number *	Thinkstation E	31 SFF				
Issue date * 20	012.04.27			Logo	lenovo	
Product environme	ntal attributes - Marke	<mark>t requirements (</mark> c	ontinued)		Requirement m Yes No r	net n.a.
P9 Energy cor	nsumption				103 100 1	i.α.
9.1 For the proc	duct the following power levels to a shipped w/ WOL Enable		mptions are reporte	ed: See P14		
Energy mode *	Power level at <b>100</b> V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standa and test method *	rd for energy modes [	
Category D						
Idle State - WOL Enab		<b>43.03</b> W	<b>42.86</b> W		V5 registration(P <sub>idle</sub> )	
Sleep (S3) - WOL Ena		2.04W	<b>2.22</b> W		V5 registration(P <sub>sleep</sub> )	
Off (S5) - WOL Enable	ed 0.88W	0.89 W	1.05W	Use for Energy Star	V5 registration(P <sub>off</sub> )	
Peak (On-max)	<b>198.37</b> W	<b>198.78</b> w	<b>198.02</b> w	Full load	[	
Category C						
Idle State - WOL Enab	oled 41.76W	<b>41.08</b> W	<b>44.11</b> W	Use for Energy Star	V5 registration(P <sub>idle</sub> )	
Sleep (S3) - WOL Ena	bled 2.04W	2.04W	<b>2.22</b> W	Use for Energy Star	V5 registration(P <sub>sleep</sub> )	
Off (S5) - WOL Enable	ed 0.88W	0.89 W	1.05W	Use for Energy Star	V5 registration(Poff)	
Peak (On-max)	189.01W	189.12w	189.52w	Full load		$\overline{\Box}$
Category B						_
Idle State - WOL Enab	oled 39.95W	39.98W	<b>39.83</b> ₩	Use for Energy Star	V5 registration(P <sub>idle</sub> )	
Sleep (S3) - WOL Ena	bled 2.04W	2.04 W	2.21W		V5 registration(P <sub>sleep</sub> )	片
Off (S5) - WOL Enable		0.89W	1.05W	Use for Energy Star		믐
Peak (On-max)	187.77W	189.08W	189.34W	Full load		⊢
. ,		100.0011	100.0411	1 411 1044	L	
Category A Idle State - WOL Enab	oled N/A	N/A	N/A	Use for Energy Star	V5 registration(P <sub>idle</sub> )	
Sleep (S3) - WOL Ena		N/A	N/A N/A		V5 registration(P <sub>sleep</sub> )	믐
						느
Off (S5) - WOL Enable		N/A	N/A	Use for Energy Star	vo registration(P <sub>off</sub> )	
Peak (On-max)	N/A	N/A	N/A	Full load	l	
EPS No-load (External power supply charger plugged in the outlet but disconnected	wall	W	W		[	
TEC Typical Energy Consum	kWh/week	kWh/week	kWh/week		[	
ETEC * Annual Energy Consum	Cat D: 156.75; Cat C:151.46; Cat B: 145.12; Cat A: N/A; kWh/year	Cat D:155.96; Cat C: 149.13; Cat B: 145.27; Cat A: N/A; kWh/year	Cat D: 156.75; Cat C: 146.58 ; Cat B: 145.59; Cat A: N/A kWh/year	$E_{TEC} = (8760/1000) \times 0.1 + P_{idle} \times 0.3)$	x (P <sub>off</sub> x 0.6 + P <sub>sleep</sub> x [	
	Poff: Off Mode(S5) -	WOL Enabled; P <sub>sleep</sub> :	Sleep Mode(S3) - WOL	Enabled; P <sub>idle</sub> : Idle Stat	e - WOL Enabled	
Display resolution :	Megapixels				[	
Print Speed :	Images per min	ute				
	ergy save mode: 30 minut					
	about the energy save fun		n the product.	I		片
	t meets the energy require	•	•	/s:		
	STAR® version: Version 5.					



## Model number Thinkstation E31 SFF 2012 06 14 Issue date Logo lenovo P10 Emissions Noise emission - Declared according to ISO 9296 P10.1 Mode description **Declared A-weighted** Mode Declared A-weighted sound pressure level $L_{pAm}$ (dB) sound power Bystander positions Operator position level $L_{WAd}$ (B) Desktop (only if product is not or Desk side operator attended) Idle HDD: Idle 3.2 24 Operation \* HDD: Operating \*3.4 22 Other mode Measured according to: X ISO7779 ECMA-74 Other (only if not covered by ECMA-74 with $L_{pAm}$ measurement distance m) P10.2 The product meets the acoustic noise requirements of the following voluntary program/s: $\times$ Product environmental attributes - Market requirements (continued) **Requirement met** Item No Yes n.a. Chemical emissions from printing products P10.3 Test performed according to ECMA-328 (ISO/IEC 28360) standard , other specify: P10.4 Typical emission rate (print phase) is (mg/h): $\mathbf{X}$ Dust Ozone Styrene Benzene TVOC P10.5 Chemical emission requirements of the following voluntary program/s are met for : Dust Styrene Benzene TVOC Ozone **Electromagnetic emissions** P10.6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary $\boxtimes$ program/s P11 Consumable 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) P11.2 Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281 P11.3 2-sided (duplex) printing/copying is an integrated product function. P12 **Ergonomics for computing products** P12.1 The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies. P12.2 The physical input device meets the requirements of ISO 9995 and ISO 9241-410. P13 Packaging and documentation P13.1 Product packaging material type(s): Corrugated paper weight (kg): 0.988 (85% recycled) Product packaging material type(s): Laminated EPE weight (kg): 0.206(20% recycled) Product packaging material type(s): HDPE weight (kg): 0.016(30% recycled) P13.2\* Product plastic packaging is free from PVC. P13.3 Specify media for user and product documentation (tick box): Electronic X, Paper X, Other P13.4 For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0% (Japan only 70%) P14 Additional information (See Note B4) NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's 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 Product does not contain free TBBPA in printed circuit boards(without components)>25g. See Energy Star Qualified (insert appropriate Product type; i.e. Desktop, Notebook, etc.) for the latest information: **P9** http://downloads.energystar.gov/bi/gplist/laptops\_prod\_list.xls\_(insert appropriate web url)

DECLARATION

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