

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 * | Alvin L Carter | | | | | |
| | 1009 Think Place | | | | | |
| | Building 2 / 5F1 Morrisville, North Carolina 27560 | | | | | |
| | rter@lenovo.com | | | | | |
| 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 * | otebook PC | | | | |
| Commercial name * | Lenovo V4400u | | | | |
| Model number * | MT: 20241 | | | | |
| Issue date * | 2013/5/15 | | | | |
| 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 | Requirement met | | |
|---------|--|-----|----|
| Item | | Yes | No |
| QC1 * | The company enforces an internal quality control scheme to ensure the correctness of this eco declaration | | |
| 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). | ı 🗌 | |

| Model number * | Lenovo V4400u M/T: 20241 | | |
|----------------|--------------------------|------|--------|
| Issue date * | 2013/5/15 | Logo | lenovo |

| Product | oduct environmental attributes - Legal requirements | | | | | |
|----------------|---|-------------|----|-------------|--|--|
| Item | | Yes | No | n.a. | | |
| P1 | Hazardous substances and preparations | | | | | |
| P1.1* | Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1) | | | | | |
| P1.2* | Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. | | | | | |
| P1.3* | Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values. | | | | | |
| P1.4* | Products do not contain more than; 0.005% polychlorinated biphenyl (PCB), 0.005% polychlorinated terphenyl (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 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) | | | \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. | | | | | |
| 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. | | | | | |
| 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) | | | | | |
| 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). | \boxtimes | | | | |
| P3.3* | If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference). | | | | | |
| P3.4* | The product is labeled to show conformance with applicable legal requirements (see legal reference). | \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 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 an hexavalent chromium by weight of these together. | d 🔀 | | | | |
| 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. | al 🔀 | | | | |

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). | | | |
| P7 | Design Disassembly, recycling | | | |
| P7.1* | Parts that have to be treated separately are easily separable | \boxtimes | | |
| P7.2* | Plastic materials in covers/housing have no surface coating. | | | X |
| P7.3* | Plastic parts >100g consist of one material or of easily separable materials. | | | |
| P7.4* | Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043. | | | |
| P7.5 | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. | | $\overline{\Box}$ | |
| P7.6* | Labels are easily separable. (This requirement does not apply to safety/regulatory labels). | | $\overline{\sqcap}$ | |
| | Product lifetime | | | |
| P7.7* | Upgrading can be done e.g. with processor, memory, cards or drives | \boxtimes | | |
| P7.8* | Upgrading can be done using commonly available tools | \boxtimes | | |
| P7.9. | Spare parts are available after end of production for: 5 years | | | |
| P7.10 | Service is available after end of production for: 5 years | | | |
| | Material and substance requirements | | | |
| P7.11* | Product cover/housing material type: Material type: AL | | | |
| P7.12 | Electrical cable insulation materials of power cables are PVC free. | | \boxtimes | |
| P7.13 | Electrical cable insulation materials of signal cables are PVC free | | \boxtimes | |
| P7.14 | All cover/housing plastic parts >25g are free from chlorine and bromine. | | | X |
| P7.15 | All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2) | | | |
| P7.16 | Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: 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 #: | | | \boxtimes |
| | Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: | | | |
| P7.18 | Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%: | n 🔲 | | |
| | 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. Chemical name: , CAS #: , Supplier: Alt. 2 | 1 | | |
| | Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: | | П | \boxtimes |
| P7.19 | Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, 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 0%. | | | |
| P7.21 | Of total plastic parts' weight >25g, biobased material content is 0%. | | | |
| P7.22 | Light sources are free from mercury | \boxtimes | | |
| P8 | Batteries | | | |
| P8.1* | Battery chemical composition: Li-ion polymer | | | |
| P8.2 | Batteries meet the requirements of the following voluntary program/s: US RBRC | | | |

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 nur | nber * | Len | ovo V4400u | M/T: 20241 | | | | | |
|---|------------------------|----------|--|-------------------------|--|--|-----------------------------|--|------|
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| Product 6 | environm | nental a | attributes - Market re | equirements (conf | tinued) | | | Requirement | |
| Item | | | | (0000 | , | | | Yes No | n.a. |
| P9 | Energy c | onsum | ption | | | | | | |
| 9.1 | | | he following power levels nipped w/ WOL Enabled. | | tions are reporte | ed: | | $oxed{\square}$ | |
| Energy mo | ode * | | Power level at 100 V AC | Power level 115 V AC | at Power le | evel at Reference / Standard f C modes and test method | | | |
| | | | 65 W | 65 W | 65 W | | | | |
| Categor | v A | | | | 1 | | I | | |
| | | | 6.02 | 6.00 | 5.77 | | (P _{idle}) | | |
| | | | 0.48 | 0.48 | 0.53 | | (P _{sleep}) WOL | | |
| | | | | | | | (P _{sleep})non- V | VOL | |
| | | | 0.22 | 0.22 | 0.27 | | (P _{off}) WOL | | |
| | | | | | | | (P _{off}) non-WC | OL | |
| Categor | <u>у В</u> | | | | | | • | | • |
| | | | 6.27 | 6.27 | 5.89 | | (P _{idle}) | | |
| | | | 0.49 | 0.50 | 0.54 | | (P _{sleep}) WOL | | |
| | | | | | | | (P _{sleep})non- V | VOL | |
| | | | 0.22 | 0.22 | 0.27 | | (P _{off}) WOL | | |
| | | | | | | | (P _{off}) non-WC | DL | |
| EPS No-los (External p charger plu outlet but o from the pr | oower suppugged in the | e wall | 0.078 W | 0.082 W | 0.082 W | .082 W | | | |
| TEC Typical End Consumpti | | | kWh/week | kWh/week | kWh/week | | | | |
| ETEC * Annual En | | | 18.06 kWh/year | 18.07 kWh/year | 17.37 kWh/y | 17.37 kWh/year | | 0/1000) x (P _{off} x 0.6 + + P _{idle} x 0.3) | |
| Consumpti | ion | | Poff: Off Mode(S5) - WOL | Enabled; Psleep: Sleep | Mode(S3) - WOL I | Enabled; Pic | dle: Idle State - | WOL Enabled | • |
| Display res | solution : | 1366*7 | 768 Megapixels | | | | | | |
| Print Spee | d : | | Images per minute | : | | | | | |
| - | | energy | save mode: 10 minutes(| to display off); 20 mir | nutes(to sleep) | Energy | star | | |
| P9.2* | Information | on abou | it the energy save function | on is provided with the | e product. | | | \square | Ħ |
| P9.3* The product meets the energy requirements of the following voluntary program/s: ENERGY STAR® version: 5.2 Product category: Notebook computer Others specify: | | | | | | | | | |
| P10 | Emission | | | | | | | | |
| P10.1 | Mode Mode | nission | Declared according to Mode description | ISO 9296 | Declared | | Declared A | -weighted | 1 |
| 1 10.1 | Wiode | | Mode description | | A-weighted | sour | | evel $L_{p{\sf Am}}$ (dB) | |
| | | | | | sound power | | | Bystander positions | |
| | | | | 1 | evel $L_{W 	extsf{Ad}}$ (B) | | Desktop | | |
| | | | | sk side | (only if product is not operator attended) | | | | |
| | Idle | | * System idle | * | 2.8 | | 1: | | |
| | Operation | า | * CPU loading >90% a | and HDD seek * | 3.6 | | 28 | 8 | |
| | Other mo | | HDD operating | | 2.8 | | 1 | 9 | |
| 1 | Measured | d accord | ding to: 🔀 ISO7779 🗌 | ECMA-74 | | | | | |

(only if not covered by ECMA-74 with L_{pAm} measurement distance

P10.2

Other

The product meets the acoustic noise requirements of the following voluntary program/s:

| wodei nur | nber " | Lenovo V4400u M/T: 20241 | | | | | |
|------------|--|--|---------------------|----------------|-------------|-------------|-------------|
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| | | | | | | | |
| | environr | nental attributes - Market requirements (continued) | | R | equire | | |
| Item | | | | | Yes | No | n.a. |
| D40.0* | | al emissions from printing products | | | | | |
| P10.3* | | formed according to ECMA-328 (ISO/IEC 28360) standard, other sp | ecify: | | | | |
| P10.4 | | emission rate (print phase) is (mg/h): | | | | | \boxtimes |
| D40.5 | | Dust Ozone Styrene Benzene TVOC | | | | | |
| P10.5 | | | e met for : | | | | \boxtimes |
| | | Oust Ozone Styrene Benzene | TVOC | <u> </u> | | | |
| P10.6 | | nagnetic emissions or display meets the requirement for low frequency electromagnetic field | ls of the following | voluntary | | | |
| 1 10.0 | program | | is of the following | voluntary | ш | | Ш |
| P11 | | able materials for printing products | | | | | |
| P11.1* | | Data Sheet (SDS) is available for the ink/toner preparation, even if not | • • • | | | | \boxtimes |
| P11.2* | Paper c EN1228 | ontaining post-consumer recycled fibers can be used, provided that 1. | it meets the requ | irements of | | | |
| P11.3* | 2-sided (duplex) printing/copying is an integrated product function. | | | | | \boxtimes | |
| P12 | | nics for computing products | | | | | |
| P12.1* | The disp | lay meets the ergonomic requirements of ISO 9241-307 for visual displa | ay technologies. | | | \boxtimes | |
| P12.2* | The phys | sical input device meets the requirements of ISO 9995 and ISO 9241-4 | 10. | | | \boxtimes | |
| P13 | | ng and documentation | | | | | |
| P13.1* | | packaging material type(s): carton & paper pad weight (kg): 0. | | | | | |
| | Product | packaging material type(s): <i>EPE cushion</i> weight (kg): 0.0 |)578 | | | | |
| | | | ht (kg): 0.0252 | | | | |
| P13.2* | | plastic packaging is free from PVC. | | | \boxtimes | | |
| P13.3* | | media for user and product documentation (tick box): | | | | | |
| | | ic⊠, Paper⊠ Other □ | | | | | |
| P13.4* | For paper fiber: 1 | er user and product documentation, please specify contained percentage | e of post-consume | r recycled | | | Ш |
| P14 | | nal information (See Note B4) | | | | | |
| 1 14 | | Supplier makes no representations, guarantees, assurances or warrant | ies whether expres | ss or implied. | regardi | na the |) |
| | informat | on contained in this document. All information provided by supplier in the | is document is pro | ovided based | on sup | olier's | |
| | | ge available at the time of completion, and supplier shall have no obliga | | | | | tion |
| | | here is approximate and provided for informational purposes only. See | a Lenovo Account | Representat | ive for r | nore | |
| P7.17 | Product | on. does not contain free TBBPA in printed circuit boards(without cor | mnonents)>25a | | | | |
| P9 | | ERGY STAR Qualified Notebooks & Tablet Computers for the latest | | | | | |
| - • | | ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls | | | | | |
| | - | | | | | | |

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 |