

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/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 * | Desktop PC | | | |
| Commercial name * | deaCentre K430 | | | |
| Model number * | 10086, 3109, 4743 | | | |
| Issue date * | 2012-03-20 | | | |
| Intended market * | 🛛 Global 🔄 Europe 🗌 Asia, Pacific & Japan 📄 Americas 🗌 Other | | | |
| Additional information | Energy Star Qualified (Model 4743) | | | |

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

| 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). | ol 🔀 | | | |

| Model number * | IdeaCentre K430 |
|----------------|-----------------|
| Issue date * | 2012-03-20 |

Logo lenovo

| Product | Require | ement | met | |
|---------|---|-------------|-----|-------------|
| Item | | Yes | No | n.a. |
| P1 | Hazardous substances and preparations | | | |
| P1.1* | Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1) | | | |
| P1.2* | Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. | \boxtimes | | |
| 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. | | | \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 microgram/cm ² /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#environment | \square | | |
| 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) | \square | | |
| 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). | | | |
| P3.4* | The product is labeled to show conformance with applicable legal requirements (see legal reference). | \square | | |
| 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). | | | \boxtimes |
| 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 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). | \square | | |
| 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 %.

| Model n | umber * | IdeaCentre K430 | | | | |
|-----------|--|---|------------------|-----------------|-------------|-------------|
| Issue da | te * | 2012-03-20 | Logo | leno | vo | |
| Dualiza | | | | . | | |
| Item | | mental attributes - Market requirements - Environmental conscious d atory to fill in. Additional information regarding each item may be found under P14. | esign i | Requirer Yes | No | n.a. |
| P6 | | nt information | | Tes | INO | n.a. |
| P6.1* | | on for recyclers/treatment facilities is available (see legal reference). | | \square | | |
| P7 | Design | | | | | |
| | | mbly, recycling | | | | |
| P7.1* | Parts that | t have to be treated separately are easily separable | | \boxtimes | | |
| P7.2* | Plastic materials in covers/housing have no surface coating. | | | | | |
| P7.3* | Plastic p | arts >100g consist of one material or of easily separable materials. | | \boxtimes | | |
| P7.4* | Plastic p | arts >25g have material codes according to ISO 11469 referring ISO 1043. | | \boxtimes | | |
| P7.5 | Plastic p | arts are free from metal inlays or have inlays that can be removed with commonly a | vailable tools. | \boxtimes | | |
| P7.6* | Labels a | re easily separable. (This requirement does not apply to safety/regulatory labels). | | \square | | |
| | Product | lifetime | | | | |
| P7.7* | Upgradir | g can be done e.g. with processor, memory, cards or drives | | \boxtimes | | |
| P7.8* | Upgradir | g can be done using commonly available tools | | \boxtimes | | |
| P7.9. | Spare pa | rts are available after end of production for: 5 years | | | | |
| P7.10 | Service i | s available after end of production for: 5 years | | | | |
| | Material | and substance requirements | | | | |
| P7.11* | | cover/housing material type: | | | | |
| D7 40 | | | type: PMMA | | | |
| P7.12 | | I cable insulation materials of power cables are PVC free. | | <u> </u> | | <u> </u> |
| P7.13 | | I cable insulation materials of signal cables are PVC free | | | | <u> </u> |
| P7.14 | | /housing plastic parts >25g are free from chlorine and bromine. | | | | <u>Ц</u> |
| P7.15 | | d circuit boards (without components) >25g are halogen free. as defined in IEC6 | 1249-2-21. (See | | \boxtimes | |
| P7.16 | Note B2) | tarded plastic parts >25g in covers / housings are marked according ISO 1043-4: | | | | |
| F7.10 | Marking: | larded plastic parts >259 in covers / housings are marked according 150 1045-4. | | \boxtimes | | |
| P7.17 | Alt. 1 | | | | | |
| | Chemica | I specifications of flame retardants in printed circuit boards >25g (without compone | nts): | | | |
| | TBBPA (| additive), TBBPA (reactive), Other; chemical name:, CAS #: | | | | |
| | AH 0 | | | | | |
| | Alt. 2 Chemica | I specifications of flame retardants in printed circuit boards (without components) > | 25g according | \bowtie | | |
| | ISO 1043 | | Log dooording | | | |
| P7.18 | Alt. 1 | | | | | |
| | | etarded plastic parts >25g contain the following flame retardant substances | preparations in | | | |
| | | ations above 0.1%: | | | | |
| | | it: No legal limits exist, this is a market requirement. a list of all used flame retardants including MSDS for each flame retardant. The l | ist must contain | | | |
| | | e chemical name, CAS number and supplier. | | | | |
| | | cal name: , CAS #: , Supplier: | | | | |
| | | cal name: , CAS #: , Supplier: | | | | |
| | | cal name: , CAS #: , Supplier: | | \bowtie | | |
| | Alt. 2 Chemica | I specifications of flame retardants in plastic parts >25g according ISO 1043-4: | | | | |
| | Chernied | | | | | |
| P7.19 | | arts >25g are free from flame retardant substances/ preparations above 0.1% class 5, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3) | ified as R45, | \square | | |
| P7.20 | | lastic parts' weight >25g, recycled material content is 0%. | | | | |
| P7.21 | Of total p | lastic parts' weight >25g, biobased material content is 0%. | | | | |
| P7.22 | Light sou | rces are free from mercury | | | | |
| P8 | Batteries | | | | | _ |
| P8.1* | | hemical composition: | | | | \boxtimes |
| P8.2 | Batteries | meet the requirements of the following voluntary program/s: | | | | \square |

Annex B of ECMA-370 4th 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 * IdeaCentre K430 | | | | | | |
|---|--------------------------------|--|--|---|---|---|--------------------|
| Issue date * | e* 2012-03-20 Logo lenovo | | | | | | |
| Product environmental attributes - Market requirements (continued) Requirement met | | | | | | | |
| Item | /ironmental a | ttributes - Market | requirements (co | ontinuea) | | Requirem Yes | No n.a. |
| P9 Energy consumption | | | | | | | 110 11.0. |
| 9.1 Fo | or the product th | e following power lev pped w/ WOL Enable | | mptions are report | ed: See P14 | | |
| Energy mode * | | Power level at 100 V AC | Power level at 115 V AC | Power level at 230 V AC | t Reference / Standar and test method * | rd for energy mod | des |
| | | W | W | W | | | |
| Category E | 3 | · | • | | | | |
| IDLE MODE | | 33.11W | 32.3W | 32.3W | Use for Energy star | registration(P _{idle}) | |
| SLEEP MODE | | 2.21W | 2.29W | 2.73W | Use for Energy Star registration(P _{sleep}) | | |
| OFF MODE | | 0.6W | 0.62W | 1.03W | Use for energy star | registration | |
| Category C |) | | | | | | |
| IDLE MODE | _ | 46.81W | 45.33W | 46.23 ₩ | Use for Energy star | registration(Pidle) | |
| SLEEP MODE | E | 1.54W | 1.62W | 1.98 W | Use for Energy Star | registration(P _{sleep}) | $-\overline{\Box}$ |
| OFF MODE | | 0.65W | 0.67W | 1.01W | Use for energy star | registration | |
| Category D |) | | | | | | |
| IDLE MODE | - | 44.95W | 45.83 W | 45.21 ₩ | Use for Energy star | registration(Pidle) | - F |
| SLEEP MODE | E | 2.21W | 2.22W | 2.48 W | Use for Energy Star | - | ΗH |
| OFF MODE | | 0.59W | 0.61W | 0.82W | Use for energy star | | ⊢⊢ |
| EPS No-load | | W | W | W | | | |
| (External power charger plugge outlet but disc | | | | | | | |
| TEC Typical Energy Consumption | | kWh/week | kWh/week | kWh/week | | | |
| ETEC * Annual Energy Consumption | | Cat D: 161.32; Cat C: 167.83; Cat B: 119.88; kWh/year | Cat D: 164.50; Cat C: 162.77; Cat B: 117.17; kWh/year | Cat D:163.45; Cat C: 167.72; Cat B: 119.34; kWh/year | $E_{TEC} = (8760/1000) \times 0.1 + P_{idle} \times 0.3)$ | x (P _{off} x 0.6 + P _{slee} | _{ep} x |
| | | Poff: Off Mode(S5) - I | WOL Enabled; P _{sleep} : S | Sleep Mode(S3) - WO | DL Enabled; P _{idle} : Idle State | e - WOL Enabled | |
| Display resolu | tion : Megapix | els | | | | | |
| Print Speed | : | Images per minu | te | | | | |
| | o enter energy s | ave mode: 25 minute | | | | | |
| | | the energy save fund | | the product. | | | ᆔ岩 |
| P9.3* Th | ne product meets | s the energy requirer | nents of the following | - | n/s: | | |
| ENERGY STAR® version: 5.2 Product category: B,C,D Image: C,D Others specify: Image: C,D | | | | | | | |
| P10 Emissions Noise emission – Declared according to ISO 9296 | | | | | | | |
| | | Declared according Mode description | 10 150 9290 | Declared | Declared A | A-weighted | |
| | | | | A-weighted | sound pressure l | - | |
| | | | | sound power level L_{WAd} (B) | Operator position 🔀 | Bystander positio | ons |
| | | | | WAd (D) | Desktop 🔀 | | |
| | | | | | or Desk side | (only if product is operator attend | |
| Idl | le | * HDD: Idle | | * 4.0 | 2 | 9 | |
| | peration | * HDD: Operating | | * 4.0 | 2 | 9 | |
| | ther mode | | _ | | | | |
| Me | easured accordi | ng to: 🔀 ISO7779 [Other | ECMA-74 (only if not cover | ed by FCMA-74 wi | th L _{pAm} measurement d | istance m) | |
| P10.2 Th | ne product meet | s the acoustic noise | | | | | |

| Model nur | nber * | IdeaCentre K430 | | | | |
|--------------|---|---|--|-------------------------|-------------------|-------------|
| Issue date * | | 2012-03-20 | lenovo | | | |
| Product | environn | nental attributes - Market requirements (continued) | | Require | ment | met |
| Item | | | | Yes | No | n.a. |
| | Chemica | al emissions from printing products | | | | |
| P10.3* | Test per | formed according to ECMA-328 (ISO/IEC 28360) standard 🔲, other specify: | | | | \boxtimes |
| P10.4 | Typical e | mission rate (print phase) is (mg/h): | | | | \square |
| | | Dust Ozone Styrene Benzene TVOC | | | | _ |
| P10.5 | Chemica | I emission requirements of the following voluntary program/s are met for : | | | | \boxtimes |
| | 0 | Dust 🗌 Ozone 🗌 Styrene 🗌 Benzene 🗌 | TVOC 🗌 | _ | _ | _ |
| | Electron | nagnetic emissions | | | | |
| P10.6 | Compute program | er display meets the requirement for low frequency electromagnetic fields of the foll /s: | owing voluntary | | | \boxtimes |
| P11 | Consum | able materials for printing products | | | | |
| P11.1* | A Safety | Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requ | iired (see P4.3). | | | \boxtimes |
| P11.2* | Paper c EN1228 | ontaining post-consumer recycled fibers can be used, provided that it meets th | e requirements o | of | | |
| P11.3* | 2-sided (| duplex) printing/copying is an integrated product function. | | | | \boxtimes |
| P12 | Ergonor | nics for computing products | | | | |
| P12.1* | | lay meets the ergonomic requirements of ISO 9241-307 for visual display technolo | gies. | \square | | |
| P12.2* | The phys | sical input device meets the requirements of ISO 9995 and ISO 9241-410. | - | <u> </u> | | Ē |
| P13 | Packagi | ng and documentation | | | | |
| P13.1* | Product Product Product Product | | eight (kg): 1.57 | | | |
| P13.2* | Product | plastic packaging is free from PVC. | | \square | | |
| P13.3* | | nedia for user and product documentation (tick box): c \square , Paper \square , Other \square | | | | |
| P13.4* | For pape | r user and product documentation, please specify contained percentage of post-co % (Japan only 70%) | onsumer recycled | | | |
| P14 | Addition | al information (See Note B4) | | | | |
| | informati knowled provided informati | | nt is provided bas ate such informati | ed on sup on. The in | plier's format | |
| P9.1 | Model 4 | 743 is ES(energy star) compliant; | | | | |

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 |