

# HP General Specification for the Environment (GSE) Revision History

## HP Standard 011-0 General Specification for the Environment (GSE) – Overview

### Revision V, 03-Jul-2017

- Added information to reflect new structure of GSE documents
- Added table of example products and relevant standards
- Added definitions of product types
- Clarified HP brand licensed products are in scope
- Editorial changes

### Revision U, 15-Jul-2016

- Editorial changes, updated Table 1

### Revision T, 01-Jun-2015

- Added new HP Standard 011-06 General Specification for the Environment – Manufacturing Process Substances Requirements
- Added Table 1 from HP Standard 011-01
- Added TBBPA to Table 1
- Updated Table 1 for 1,2,5,6,9,10-Hexabromocyclododecane (HBCDD or HBCD) in HP 011-01 document Table 1 and HP 011-01A document Table 1
- Updated Table 1 for PAH (also moved the PAH table 3 to 01 document) in HP 011-01 document Table 1  
Updated Table 1 for removal of “Bromine in printed circuit boards”

### Revision S, 23-Jun-2013

- Added “Overview” to the title
- Added references to the three new GSE standards: Future, Business-Specified and Disclosure

### Revision R, 04-Jun-2013

- Corrected section reference, Supplier Verification Section 5 of the GSE Substances and Materials document (HP Standard 011-1)

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### Revision P, 01-Aug-2012

- Added reference to requirements in the Supplier Verification Section 4 of the GSE Substances and Materials document (HP Standard 011-1).
- Added information from the downstream supply chain.
- Added requirements of HP Standard 014-2 Supplier Requirements for Safe and Legal Products.

### Revision O, 01-Aug-2011

- Updated revision information to be consistent with other sections of this standard series. No technical changes were included in this section.

### Revision N, 04-Aug-2010

- Clarified the supplier verification section and added the 10-year requirement for retaining documentation.

### Revision M, 07-Aug-2009

- Updated revision information to be consistent with other sections of this standard series. No technical changes were included in this section.

### Revision L, 01-Aug-2008

- Updated Abstract and Scope to be consistent with other GSE documents, including the term “HP owned brand products.”
- Added the Supplier Verification clause (taken from the GSE Restricted Materials standard) so it applies to all GSE requirements.
- Added reference to new HP Standard 011-4 GSE Product Requirements.
- Deleted references to HP Standard 011-3 GSE Battery Requirements, which has been incorporated into the GSE Restricted Materials Standard and the new GSE Product Requirements Standard.

## **HP Standard 011-1 General Specification for the Environment – Substances and Materials Requirements**

### Revision V, 03-Jul-2017

- modified scope to reflect new GSE structure
- removed requirements that were not applicable to all products
- added substance disclosure requirements
- added Section **Error! Reference source not found.** “Other Environmental Requirements...”
- added DC FR law requirements; moved Phenylmercury requirement from HP-00011-01A; added diglyme requirement
- Removed spare parts exemption from 160701-87 (Canada Hg requirements)
- Clarified scope of 160701-98 (US State Hg requirement)
- Modified Conflict Mineral requirement dates

### Revision U, 26-Jul-2016

- Added paper sourcing requirements
- added restrictions for BPA, DINP, CFR in case plastics
- add Hg restrictions related to Canada and US states
- remove PFOA exemption for adhesive foil or tape
- removed polychlorinated naphthalene limiter
- updated conflict minerals dates
- remove FGHG Canada Eco-Logo requirement
- editorial changes

### Revision T, 01-Jun-2015

- Updated Section 3 to include “This includes non-EE and batteries.”
- Added to Table 1 in exemptions RoHS exemption 39a and 39b to “Cadmium and its compounds” (ID #: 980408-84)
- Added to Table 1 in exemptions RoHS exemption 13b to “Lead and its compounds” (ID #: 061020-12)
- Removed from Table 1 RoHS exemption 4d from exemption list “Mercury and its compounds” (ID #: 980408-14)
- Removed from Table 1 (ID #: 061020-81), RoHS exemption 4d has expired on 13-Apr-2015
- Removed from Table 1 (ID #: 130604-16) “See HP-011-01A for exemption expiration” and added “(expires 1-Jan-2016)”
- Added HBCDD (ID #: 120621-60) to Table 1 from GSE 011-01A document due to effective date 1-Aug-2015 and included exemption – “Recycled material in all products: 1000 ppm”
- Added DIBP to Table 2 from GSE 011-01A document with effective date 1-Jul-15
- Added PAH to Table 1 from GSE 011-01A document with effective date 1-Aug-15
- Change two digit years to four digit years (e.g., 1-Jul-16 changed to 1-Jul-2016)
- Removed Table 1 and added to HP Standard 011-0 document
- Removed “All products manufactured before 14-Mar-15” from BNST exemptions

- Update to Azo colorants (remove “and aromatic amines”; add “and Azodyes”); added clarification under substance identifier and threshold limit/criteria.
- Updated Red Phosphorus scope and added exemptions
- Updated Short chain chlorinated paraffins (SCCPs) to HP Restrictions
- Added “2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)” to existing GSE restriction of a similar name “Phenol,2 (2H benzotriazol 2 yl) 4,6 bis(1,1 dimethylethyl), CAS#: 3846-71-7” and added additional reference “EU Regulation (EC) 1907/2006, Annex XVII (EU REACH)”
- Added to PVC in Substance Identifier “& 9002-86-2” and References “EPEAT and Korean eco-label KOECO”
- Added in Table 3 “including coin cell” under mercury and its compounds for batteries with inclusion of reference for Taiwan Battery Regulation (ID Number: 080715-63)
- Added in Table 3 Mercury and its compounds (new ID #: 150601-06) at 5ppm with Canada Products Containing Mercury Regulations & EU Battery Directive 2013/56/EU as references
- Removed in Table 3 “coin cell batteries” under mercury and compounds for batteries (ID Number: 140615-61)
- Added in Table 3 “Taiwan Battery Regulation” reference (ID # 080715-36)
- Added to Table 4 with Azodyes approved test methods
- Added “Malaysia” to Section 8 for the list of countries
- Rename Table 6 to Aromatic Amines
- Added Table 14 Polycyclic Aromatic Hydrocarbons (PAHs)
- Removed Benzo[ghi]perylene (CAS#: 191 24 2) from PAH Table 14
- Removed exemption – “Mist suppressants for nondecorative hard chromium (VI) plating (in closed loop systems)” and added “Canada Regulation SOR/2008-178” under references in Table 1 for PFOS (ID #: 07095-36) and in Table 2 for PFOS (ID #: 070905-82 and 070905-13)

#### Revision S2, 23-Feb-2015

- Added GSE Standard 011-06 GSE – Manufacturing Process Substances Requirements
- Added Polychlorinated biphenyls (PCBs) to Table 1 for listing in 011-01 document
- Added Polychlorinated biphenyls (PCBs) to Table 2 for “All products” and remove PCBs from Table 3
- Added Antimony trioxide to Table 1 for listing in 011-01A document
- Added “Chlorine compounds in the form of polyvinyl chloride...” (08715-88) and “Bromine compounds” (090807-37) to Table 1 for listing in 011-01A and removal from 011-01B document
- Added “MCCP” (Identification number: 130604-94) to Table 1 for listing in 011-01A and removal from 011-01B document
- Added “GSE Standard 011-06 Manufacturing Process Substances Requirements, Table 1” to footnote 8
- Added Benzidine-based substances to Table 1 and Table 2
- Added Table 14 – Benzidine-based substances

#### Revision S1, 18-Jul-2014

- Removed Denmark references for DEHP, BEP and DBP
- Corrected the CAS# for DBB
- Added Table 3 for DMF in Table 1

#### Revision S, 23-Jun-2014

- Organized the requirements into tables and added the references
- Pulled out future, and business specified requirements into two separate Standards, 011-1A and 011-1B, respectively
- Updated paragraph about replacing substances
- Added BNST
- Changed hexavalent chromium threshold criteria to “Not a hexavalent chromium coating as determined by IEC 62321 series of test standards” from “not present”
- Removed display screens for projection as an exemption for PVC
- Added red phosphorus
- Updated Conflict Minerals

- Updated the RoHS Compliance section
- Added restrictions for lead, mercury, hexavalent chromium, PBBs, and PBDEs in non-lead acid batteries, including packs and coin cell
- Updated the Additional Substances Requirements section

Revision R3, 13-Nov-2013

- Corrected Table 4: Polycyclic Aromatic Hydrocarbons (PAHs) to include Dibenz[a,h]anthracene (DBAHA), CAS# 53-70-3, checked off for section 3.29 requirements

Revision R2, 17-Oct-2013

- Added Polycyclic Aromatic Hydrocarbons (PAHs) section 3.29

Revision R1, 08-Jun-2013

- Changed restriction date for HBCDD from 1-Jul-2014 to 1-Aug-2015
- Changed restriction date for phthalates from 1-Jul-2014 to 1-Jul-2016 (section 3.25.4)
- Moved DIBP to 1-Jul-2015 restriction date in section 3.25.1
- Added Perfluorooctanoic acid (PFOA)

Revision R, 04-Jun-2013

- Added alternatives statement to section 3
- Removed labeling requirement in section 3.4.5.1 to add to GSE Product Requirements
- Reduced the lithium battery section to 38.3 testing and expired the separate lithium battery specification
- Added hexavalent chromium and its compounds in leather applications
- Updated the phthalate restrictions, added DIBP, DMEP and DPHP to section 3.25 and Table 3
- Incorporated the HP RoHS 2 Spec, updated the cadmium, lead and mercury exemptions
- Updated Wood, Paper and other Plant-based Products section 3.33
- Added halogenated cables, wires and cords as an exemption to antimony section 4.1
- Changed “BFR/PVC-free” to “low halogen” in section 4.4
- Added MCCPs to section 4.4

Revision Q, 28-Jan-2013

- Updated the PFOS requirements.
- Combined and simplified the Conflict Minerals requirement. Removed section 4.7.
- Revised the antimony exemptions in section 4.1.

Revision P, 01-Aug-2012

- Added alkaline zinc manganese dioxide batteries to lead in batteries restriction not to exceed 0.004% (40 ppm) by weight.
- Added Conflict Minerals policy requirement. Added more requirements to gold, tantalum, tin and tungsten.
- Added lead and phthalates restriction in accessory bags, carrying cases, sleeves, and backpacks.
- Added lead restriction in graphic inks.
- Removed two lead exemptions 7(c)-(III), 11(b) and added two lead exemptions 7(c), 7(c)-I, 7(c)-II, 7(c)-IV and 25.
- Reference the HP RoHS spec for mercury exemptions.
- Removed ODS Tables 7 and 8 and referenced the Montreal Protocol.
- Added printers, scanners, faxes, multifunctional devices to the phthalate rigid plastic requirement.
- Added the phthalate DIBP and moved the 1-Jan-2014 restriction date to 1-Jul-2014.
- All suppliers must comply with the HP Active Verification Material Testing Specification, unless written notification otherwise.
- Added a business specific requirements section, section 4. Added antimony, beryllium, chlorine in bleached paper, phthalates, and tantalum to this section. Moved existing “Halogenated Flame Retardants (BFRs and CFRs), Polyvinyl Chloride (PVC), and Antimony Trioxide” and Polycyclic Aromatic Hydrocarbons (PAH) sections here

#### Revision Q, 01-Aug-2011

- Clarified that chips (die only) are exempt from the arsenic restriction
- Removed some “and equal to” limits, and kept “greater than”
- Changed the cadmium and lead in batteries restrictions
- Added Bisphenol A in thermal paper
- Added HBCDD (brominated flame retardant)
- Added conflict minerals (gold, tantalum, tungsten and gold)
- Added antimony trioxide
- Added organostannic compounds (DBT and DOT) and moved TBTO, TBT and TPT to this section
- Added phthalates
- No CFRs and BFRs for DecaBDE replacements
- Changed radioactive substances requirement
- Added “related requirements” to the Chemical Substance Requirements

### **HP Standard 011-01A General Specification for the Environment - Substances and Materials Future Requirements**

#### Revision V, 03-Jul-2017

- updated scope to reflect restructure of documents
- moved phenylmercury requirements to HP-00011-01
- updated RoHS exemption 13a, 13b, 39
- added PFOA REACH requirements

#### Revision U, 21-Jul-2016

- updated HBCDD restriction
- removed disallowed RoHS exemptions
- updated confidence level for RoHS phthalate restrictions
- remove PFOA expired exemption
- remove PFOA substance tables
- editorial changes

#### Revision T, 01-Jun-2015

- Removed “known” before future and “future” after restrictions
- Revised Section 4 regarding effective date
- Removed “HP” in Table 1 to “Effective Date”
- Removed footnote effective date, defined in Section 4
- Updated footnote Confidence of effective date
- Moved HBCDD (ID #: 120621-60) to GSE 011-01 document due to effective date 1-Aug-2015 and included exemption – “Recycled material in all products: 1000 ppm”
- Added HBCDD (ID #: 150601-11) with inclusion of “Recycled material in all products: 100 ppm”
- Changed two digit years to four digit years (e.g., 1-Jul-16 changed to 1-Jul-2016)
- Added Substance Identifier “Various” to Exemption 2b
- Moved DIBP (ID #: 120621-45) to GSE 011-01 document due to effective date 1-Jul-2015
- Moved PAH (ID #: 130604-79) and Table 3 to GSE 011-01 document
- Added Nonylphenol ethoxylates (new ID# 150601-01)
- Removed Bromine compounds (ID # 090807-37) to “TBBPA Tetrabromobisphenol A” (new ID # 150601-10)
- Updated “TBBPA Tetrabromobisphenol A” (new ID # 150601-10) in substance identifier to include “Additive and Reactive¥”
- Added footnote “¥ An example of Additive TBBPA is CAS # 79-94-7 Reactive TBBPA # 40039-93-8”

#### Revision S2, 23-Feb-2015

- Added GSE Standard 011-06 GSE – Manufacturing Process Substances Requirements
- Removed Benzenamine, N-phenyl-, Reaction Products with Styrene and 2,4,4- Trimethylpentene (BNST) due to HP effective date as 14-Mar-15
- Removed exemption 4(d) due to exemption expiring 13-Apr-15
- Changed phthalates (DEHP, DBP, BBP, and DIBP) effective date to 21-Jul-19 from 21-Jul-16
- Revised wording for exemption 6a, 7a, 7ci, and 15
- Changed effective date to 2021 from 21-Jul-16 for exemptions 13b, 5b, 6a, 6b, 6c,7a, 7ci, 7cii, 7civ, 13a, 15, 4f
- Changed confidence of effective date for exemption 15 from High to Low
- Added exemption 39a and 39b
- Added “Chlorine compounds in the form of polyvinyl chloride...” (08715-88) and “Bromine compounds” (090807-37) from GSE HP Standard 011-01B document to Table 1
- Added “MCCP” (Identification number: 130604-94) from GSE HP Standard 011-01B document to Table 1
- Added “Antimony trioxide” (Identification number: 150309-40) to Table 1

#### Revision S1, 18-Jul-2014

- Corrected the CAS# for DEHP
- Removed the Denmark reference for DEHP, BBP, DBP, and DIBP and added EU RoHS and REACH

### **HP Standard 011-01B General Specification for the Environment - Substances and Materials Business-Specified Requirements**

#### Revision V, 03-Jul-2017

- Modified Sweden Chemical tax requirements
- Added Other Business Specified Requirements (EPEAT 2.0 and Italy Public Procurement Packaging)
- Editorial changes

#### Revision U1, 22-Mar-2017

- Added EPEAT low halogen requirements
- Added Sweden Chemical tax requirements
- Duplicated RoHS phthalate and other upcoming requirements from HP-00011-01A

#### Revision U, 21-Jul-2016

- Editorial changes

#### Revision T, 01-Jun-2015

- Added clarifying language in section 5 “However, requirements and limits for the same substance and materials are still applicable.” and “...(but the BFR and PVC requirements are still applicable).”
- Updated DINP (ID #: 140615-25) threshold limit to 1,000 ppm instead of “Not present”
- Updated footnote 12 with new date 21-Jul-2019 (formerly 21-Jul-16).
- Added “TBBPA” (new ID # 150601-05)
- Removed DINP from Table 3

#### Revision S1 23-Feb-2015

- Added GSE Standard 011-06 GSE – Manufacturing Process Substances Requirements
- Deleted “HP Restriction” for HBCDD in Table 2
- Updated Section 5.1 Polycyclic Aromatic Hydrocarbons (PAHs)

## **HP Standard 011-2 General Specification for the Environment - Packaging Requirements**

### Revision V, 03- Jul-2017

- Added 3.1.6 Cobalt Dichloride
- Revised 3.2 Recyclable Materials
- Revised 3.4 Recycled and Certified Fiber Content in Paper-based Packaging
- Revised 3.5 Wood, Paper, and other Plant-based Packaging Requirements
- Added 3.5.1 Australian Illegal Logging Prohibition Act Import Declaration
- Added 3.7 Country-Specific Packaging Requirements
- Added 3.7.1 India
- Revised 4.1 General Material Coding

### Revision U, 21-Jul-2016

- Revised 3.1.2 Heavy Metals in Packaging
- Added 3.1.6 Expanded Polystyrene
- Added 3.3 Recycled Content in Plastic-based Packaging
- Revised 3.4 Recycled and Certified Fiber Content in Paper-based Packaging
- Revised 4.2.3 Taiwan
- Revised 4.2.5 Europe Green Dot
- Added 4.3.2 Brazil Pallet Declaration
- Removed Appendix A Use of Green Dot Symbol in Europe

### Revision T, 01-Jun-2015

- Revised 4.2.2 Korean Logo
- Inserted 4.2.4 France Triman Logo
- Inserted 4.4.5 Europe Green Dot
- Inserted Appendix A Use of Green Dot symbol in Europe

### Revision S, 23-Jun-2014

- Revised 3.8 HP's Approach to Recycled and Certified Fiber Content in Packaging
- Revised 4.1 General Material Coding

### Revision R1, 08-Jun-2013

- Changed phthalate restriction date in section 3.6 to 1-Jul-2015

### Revision R, 04-Jun-2013

- Inserted 3.6 Phthalates requirements
- Revised 4.1.1 Country-Specific Labeling - Japan
- Revised 4.1.3 Country-Specific Labeling – Taiwan
- Revised 4.4 Wood, Paper, and Other Plant-based Packaging Restrictions

### Revision P, 01-Aug-2012

- Inserted 3.5 Elemental Chlorine language
- Revised 3.6 Recyclable Materials language
- Inserted 3.7,3.7.1 and 3.7.2 Recycled content requirements
- Revised 4.1.1 Country-Specific Labeling - Japan

### Revision O, 01-Aug-2011

- Revised 3.6 language to exempt certain packaging materials from marking requirements.
- Deleted 3.7.1 China specific marking requirements
- Revised 3.7.3 Korea specific marking requirements to reflect Korean Government changes and revised Korea Design Reference table and introductory text.

- Deleted 3.7.5 Slovakia TidyMan marking requirement
- Updated language in section 3.10.

Revision N, 04-Aug-2010

- Added Korea Separate Discharge Marking requirements for plastic sheet and film in section 3.7.3
- Added country-specific labeling requirements for South Korea.

Revision M, 07-Aug-2009

- Deleted Formaldehyde limits in wood packaging in Section 3.8.
- Added Section 3.9, Secondary Packaging Restrictions.
- Added Section 3.10 Wood, Paper, and other Plant-based Packaging restrictions.

**HP Standard 011-3 General Specification for the Environment - Battery Requirements**

**This document was inactivated on 01-Aug-2008 and is no longer available.**

Revision K, 10-Sep-2007

- Added statement that non-rechargeable type batteries must not contain lead exceeding 0.2% (2000 ppm) by weight, and non-rechargeable alkaline and carbon-zinc batteries must be hermetically sealed (new section 3.4).
- Revised paragraphs 3.1.2 and 3.1.3 to capture U.S. based restrictions on mercury in alkaline-manganese and zinc-carbon batteries at 0.0001% (1 ppm).
- Added statement that non-rechargeable alkaline and carbon-zinc batteries must be labeled with the battery manufacturer's brand name, model designation, expiration date (month and year) and country of origin.
- Added statement that all types of batteries must be labeled with a CENELEC style "crossed out wheelie bin" effective September 26, 2008
- Deleted the note that labeling requirement for The Netherlands must also be met (see section 4.2).
- Updated title of newly revised specification "HP Requirements for Lithium and Lithium-Ion Cells, Batteries, and Battery Packs" in paragraph 3.5.2.
- Updated Abstract, Applicability, Scope, and General statements for consistency with other GSE sections.

No Revision J was issued, to align all documents to the same revision letter.

Revision H1, 20-Oct-2006

- Made clerical change to identify new owner and group name.

Revision H, 19-Jul-2005

- Renumbered and reformatted A-5951-1745-1 document to HP-00011-03.
- Added references to transporting dangerous goods regulations and a correction of the Form 4 symbol.

**HP Standard 011-4 General Specification for the Environment – Product Requirements**

Revision V, 03-Jul-2017

- removed requirements
- added explanation and reference to replacement standards

Revision U, 21-Jul-2016

- removed Brazil sealed lead acid battery section (4.1.2.1)



- updated Table 1, Batteries Manufactured or Sold in China
- updated EPS labeling requirements (4.3.1)
- removed date from GB21520 for clarity
- updated China RoHS requirements
- updated to align with China RoHS legislation (Sections 4.4.3, 4.6, 6.2.2, appendix A)
- added section on non-EU biocide requirements
- removed Prop65 Section
- updated India RoHS content (Section 5.2.9)
- added Taiwan BSMI RoHS and content declaration (5.2.10, 6.2.7, appendix A)
- updated Brazil Labels and documentation (4.5.4, 5.1.2.1.1)
- removed US Mercury Notice
- updated CEL notice (5.3.1)
- added Japan Top Runner for printers (5.3.6)
- removed Japan Top Runner for enterprise products
- updated US DOE EPS certification requirements (7.2.4)
- updated California Battery Charger Certification and Registration (7.2.6)
- updated China Display MEPS (8.1.4)
- updated Korea Power Requirements for Printing (Section 8.1.5)
- updated EU Lot 19 Ecodesign re

#### Revision T1, 01-Sep-2015

- Added (North America) Product and Packaging Label - Product Containing Mercury (see sec 4.4.2)

#### Revision T, 1-Jun-2015

- Update Taiwan Battery Labels
- Updated Taiwan Battery Dry Cell Battery Law
- Added Call2Recycle section
- Updated Global Battery Label Examples
- Updated the EU Battery User and Service Manual Statements
- 8.1.15 EU (Lot 11) Ecodesign Requirements for Fans Integrated to Electric Motors (EC 327/2011)
- 8.1.16 EU (Lot 30) Ecodesign Requirements for Electric Motors (EC 640/2009)
- 8.1.17 EU (Lot 19) Ecodesign Requirements for Directional Lamps, Light Emitting Diode Lamps & Related Equipment (EC 1194/2012)
- 8.1.18 Japan Rational Use of Energy Law (Top Runner) for Enterprise Servers, Storage and Networking products

#### Revision S, 23-Jun-2014

- Update - Taiwan Battery Table 5
- 4.3.1 Update - European Waste Electrical and Electronic Equipment (WEEE) Directive
- 4.4.9 New - Chile Energy Label for Printer
- 4.4.10 New - Australia and New Zealand Energy Label for Computer Monitor
- 4.5.3.1 Update - China EPUP (added 15 years for long life batteries used in Enterprise)
- 4.5.5 New - EU Biocide Product Label
- 4.5.6 New - California Proposition 65 Warning Label
- 4.6.2 Update - Brazil Alkaline and Zinc-manganese Batteries (note added)
- 4.6.4 New - Brazil Label for Hardware Recycling Information
- 4.6.5 New - EU ErP Lot 3 Non-User Replaceable Batteries
- 4.7 Update - EU ErP (Artwork added)
- Update - User Information for the Disposal of Waste Electronic Equipment (EU, India WEEE)
- New - Brazil User Manual Label for Hardware Recycling Information
- 6.2.6 New - Australian Illegal Logging Prohibition Act Wood and Paper Product Import Declaration
- 7.2.12 New- Australia and New Zealand Energy Efficiency Registration for Computer Monitors

- 7.2.13 New - Vietnam Minimum Energy Performance Standards Certification
- 8.1.2 Update - EU Energy Related Products Standby and Off Mode and Networked Standby Information Requirements
- 8.1.10 New- Australia and New Zealand Minimum Energy Performance Standards (MEPS) for Computer Monitors
- 8.1.11 New - Vietnam Minimum Energy Performance Standards (MEPS) for Computer Monitors
- 8.1.12 New - Vietnam Minimum Energy Performance Standards (MEPS) for Printing Products
- 8.1.13 New - EU COMMISSION REGULATION (EC) No 617/2013 (Lot 3) Ecodesign Requirements for Computers and Computer Servers
- Formatting and editorial changes
- Removed regulatory effective dates that have passed

## **HP Standard 011-05 General Specification for the Environment—Substance Disclosure Requirements**

### Revision E, 03-Jul-2017

- removed requirements
- added explanation and reference to replacement standards

### Revision D, 21-Jul-2016

- Removed Nanomaterials and other substances that are not applicable to HP products

### Revision C, 01-Jun-2015

- Added new GSE Standard - HP Standard 011-06 GSE – Manufacturing Process Substances Requirements
- Added REACH candidate list 13 substances to Table 1
- 1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters
- 1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters
- Added Substance Name “Chromic acid, sodium salt (1:2)” in Table 2 (CAS: 10588-01-9)
- Added REACH candidate list 13 substance to Table 2
- 5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane
- Substance Name Changes in Table 4
- Other Azo Colorants (see IEC Reference Substance List)
- Asbestos and similar fibrous minerals 1332-21-4
- Disodium tetraborate, anhydrous; Boron sodium oxide 1330-43-4
- Disodium tetraborate, decahydrate (Borax) 1303-96-4
- Lead titanium trioxide, Lead (II) titanate 12060-00-3
- Sodium dichromate (anhydrous), “Chromic acid, sodium salt (1:2)” 10588-01-9
- Substance Additions in Table 4
- BFR (Brominated Flame Retardants) 79-94-7
- Chlorinated Paraffins 85535-85-9
- Fluorinated Hydrocarbons, Fluorinated Greenhouse Gases (PFC, SF6, HFC)
- Other Organic Substances – Lithium batteries, coin cell batteries

### Revision B, 04-Dec-2014

- Grouped REACH substances by those typically found in hardware articles and EEE and those not typically found in hardware articles and EEE
- Added examples of use for substances
- Added recent REACH candidate list substances
- Expanded the list of IEC 62474 substances

### Revision A, 23-Jun-2014

- Initial creation of the document

## **HP Standard 011-06 General Specification for the Environment—Manufacturing Process Substances Requirements**

### Revision C, 03-Jul-2017

- Changed criteria from “not used” to “do not used” to clarify criteria
- Added select ethylene glycol ether substances

### Revision B, 21-Jul-2016

- Added 1-Bromopropane (n-propylbromide), Cyclohexane, and Alkylphenols & Alkylphenol Ethoxylates restrictions to Table 1
- Removed “Substance Group” and “Examples of Use” from Table 1 to align with GSE 011-01

### Revision A, 27-Feb-2015

- Initial creation of the document

## **HP Standard 011-11 General Specification for the Environment—Product Requirements, EEE Products**

### Revision A, 03-Jul-2017

- Initial draft document.
- Requirements moved from HP-00011-04
- Arranged requirements by product type, country, regulation
- Added index of labeling and documentation requirements
- Added language addressing HP brand licensed products
- Added language addressing new GSE structure
- Added US DOE Battery Charger Energy Efficiency Requirements
- Added Singapore RoHS, modified India RoHS scope
- modified China Energy Label registration requirement deadline and web sales requirement
- clarified product scope for Korea e-Standby
- editorial changes

## **HP Standard 011-12 General Specification for the Environment—Requirements for Batteries and Products Containing Batteries**

### Revision A, 03-Jul-2017

- Moved requirements from HP-00011-01 and HP-00011-04
- Arranged requirements by battery chemistry
- Updated Taiwan requirements scope
- Added Portuguese statement for no user-replaceable battery situation
- Removed Manufacturer’s Name/Logo from EU requirement
- Added back requirements for sealed Pb-acid batteries
- Editorial changes throughout

## **HP Standard 011-13 General Specification for the Environment—Requirements for Soft Goods**

### Revision A, 03-Jul-2017

- Initial revision of document
- Included Soft Good Requirements from HP-00011-01
- Included Soft Good requirements from HP-00011-04
- Included paper and plant based material requirements

**HP Standard 011-14 General Specification for the Environment—Requirements for Chemicals and Formulated Products**

Revision A, 03-Jul-2017

- Initial draft document.
- Included Chemical Disclosure requirements previously in HP-00011-01
- Added Global Chemical Compliance management

**HP Standard 011-15 General Specification for the Environment—Requirements for Print Media**

Revision A, 03-Jul-2017

- Initial version of document.
- Transferred media requirements from HP-00011-04 and HP-00011-01
- Added Recycled and Certified Fiber Content requirement
- Clarified compliance to EU Timber Regulation, Lacey Act, and Australian Illegal Logging Prohibition Act