

HPE General Specification for the Environment (GSE)

Revision History

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

Revision, Date, Change Number	Brief Description of change
A, 01-Nov-2015	Initial release for HPE
B, 17-Jun-2016	Table 1 added Beryllium oxide Remove Chlorine in bleach paper, BBP, DEHP, and DBP for Table 1 reference in HPE-011-01B Edit Table 2 reference to Table 1 for HPE-011-01B

HPE Standard 011-1 General Specification for the Environment – Substances and Materials Requirements

Revision, Date, Change Number	Brief Description of change
A, 01-Nov-2015	Initial document for HPE.

Revision, Date, Change Number	Brief Description of change
B, 17-Jun-2016	<p>Table 1 removed exemption “ceramics in electronic components and” from Beryllium and its compounds (ID Number 101118-59)</p> <p>Table 1 added Beryllium Oxide (ID Number 160617-01)</p> <p>Table 1 remove exemption EU RoHS exemption 8b, 39a, and 39b for Cadmium and its compounds (ID Number 980408-84)</p> <p>Table 1 Chlorinated hydrocarbons (ID Number 020221-79) correct to Table 8 from Table 9</p> <p>Table 1 remove EU RoHS exemption 7b, 9b,13b, and 25 for Lead and its compounds (ID Number 061020-12)</p> <p>Table 1 remove EU RoHS exemption 1, 2a, 2b, 2b2, 2b3, 2b4, 3, 4a, 4b, 4c, and 4e for Mercury and its compounds and remove EU REACH reference (ID Number 980408-14)</p> <p>Table 1 PBBs (ID Number 980408-10) and PBDEs (ID Number 980408-50) correct to Table 7 from Table 8</p> <p>Table 1 Hexabromocyclododecane (ID Number 120621-60) changed threshold to 100 ppm; removed recycled materials exemption; and updated reference to EU Regulation 850/2004 (POP)</p> <p>Table 1 Hexavalent chromium (ID Number 061020-24) added “the latest” before “IEC 62321...”</p> <p>Table 1 removed “550, 2013” in References and removed adhesive foil or tape exemption for PFOA ID Number 130604-16 & 130604-48</p> <p>Table 1 added “individual salts and” to PFOA ID Number 130604-16 & 130604-48</p> <p>Update Section 4.1 Conflict Minerals</p> <p>Table 2 added Fluorinated greenhouse gases (ID Number – 160617-08), scope is refrigeration equipment (EU/517/2014)</p> <p>Table 2 removed Fluorinated greenhouse gases (ID Numbers – 090807-91, 090807-17; and 090807-36)</p>

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	<p>Table 1 and Table 2 remove “Adhesive foil or tape in semiconductors and photographic coatings for film, paper or screen. (expires 1-Jan-2016)” for PFOA ID Numbers: 130604-16, 130604-48, 130604-77, and 130604-49</p> <p>Table 2 removed “Preparations” and added “Mixtures” in Scope; and removed “550, 2013” in References for PFOA ID Number 130604-77</p> <p>Table 2 removed “550, 2013” in References for PFOA ID Number 130604-49</p> <p>Table 2 added “individual salts and” to PFOA ID Number 130604-77 & 130604-49</p> <p>Table 4 added “The latest” before “IEC 62321...” and removed “1-5 and Ed.1 where applicable”</p> <p>Table 9 added 1,2-difluoroethane (HFC-152) (CAS 624-72-6) & Fluoroethane or Ethylfluoride (HFC-161) (CAS 353-36-6)</p>
B1, 05-Jul-2016	Update Section 4.1 Conflict Minerals – removed 31 December 2016 date

HPE Standard 011-01A General Specification for the Environment - Substances and Materials Future Requirements

Revision, Date, Change Number	Brief Description of change
A, 01-Nov-15	Initial document for HPE.

Revision, Date, Change Number	Brief Description of change
B, 17-Jun-2016	<p>Table 1</p> <ul style="list-style-type: none"> <li>• Remove HBCDD (ID Num: 150601-11) <li>• Remove Exemption 8b Cadmium (ID Num: 140615-33), exemption expiring 21-Jul-2016 <li>• Remove Exemption 7b Lead in solder (ID Num: 140615-69), exemption expiring 21-Jul-2016 <li>• Remove Exemption 9b Lead in bearing (ID Num: 140615-31), exemption expiring 21-Jul-2016 <li>• Remove Exemption 25 Lead oxide in surface (ID Num: 140615-29), exemption expiring 21-Jul-2016 <li>• Remove Exemption 1 Mercury in single capped (ID Num: 140615-89), exemption expiring 21-Jul-2016 <li>• Remove Exemption 2a Mercury in double-capped (ID Num: 140615-78), exemption expiring 21-Jul-2016 <li>• Remove Exemption 2b Mercury in other fluorescent..2b2 (ID Num: 061020-43), exemption expired in 13-Apr-2016 <li>• Remove Exemption 2b Mercury in other fluorescent..2b3 and 2b4 (ID Num: 140615-71), exemption expiring 21-Jul-2016 <li>• Remove Exemption 3 Mercury in other low pressure lamps (ID Num: 140615-65), exemption expiring 21-Jul-2016 <li>• Remove Exemption 4a Mercury in cold cathode (ID Num: 140615-39), exemption expiring 21-Jul-2016 <li>• Remove Exemption 4b Mercury in High Pressure Sodium (ID Num: 140615-12), exemption expiring 21-Jul-2016 <li>• Remove Exemption 4c Mercury in other High Pressure Sodium (ID Num: 140615-72), exemption expiring 21-Jul-2016 <li>• Remove Exemption 4e Mercury in metal halide lamps (ID Num: 140615-86), exemption expiring 21-Jul-2016

Revision, Date, Change Number	Brief Description of change
	<ul style="list-style-type: none"> • • Remove PFOA (ID Num: 130604-74), effective date (1-Jul-2016) PFOA in HPE 011-01 • Add PFOA (ID Num: 160617-02), effective date 1-Mar-2019 • Add "(possible scope decrease) for Exemption 7ci (ID Num: 140615-53) • Add "(possible scope decrease) for Exemption 15 (ID Num: 140615-60) • Remove Exemption 39a Cadmium in colour (ID Num: 150309-50), exemption expiring 30-Jun-2017 (not applicable to HPE) • Remove Exemption 39b Cadmium in down shifting (ID Num: 150309-51), exemption expiring 30-Jun-2018 (not applicable to HPE) <p>Table 2 PFOA, PFOA Salts, and PFOA Esters</p> <ul style="list-style-type: none"> • Add "Any substance (including salts and polymers) having a linear or branched perfluoroheptyl group with the formula (C7F15)C- as one of the structural elements." • Add "Any substance (including salts and polymers) having a linear or branched perfluorooctyl group with the formula C8F17- as one of the structural elements (except C8F17-X, where X= F, Cl, Br. C8F17-C(=O)O-X' or C8F17-CF2-X' (where X'=any group, including salts)."

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

Revision, Date, Change Number	Brief Description of change
A, 01-Nov-15	Initial release for HPE.

Revision, Date, Change Number	Brief Description of change
B, 17-Jun-16	<p>Remove Section 4 and Table 1 – Printing and Personal Products (not applicable to HPE)</p> <p>Table 2 (now Table 1)</p> <ul style="list-style-type: none"> • Diisodecyl phthalate (DIBP) (ID Num: 140615-73) corrected to Diisobutyl phthalate (DIBP) • Add BBP (ID Num: 160617-04) HPE Restriction • Remove BBP (ID Num: 110727-21) China SEPA • Add DBP (ID Num: 160617-05) HPE Restriction • Remove DBP (ID Num: 110727-32) China SEPA • Add DEHP (ID Num: 160617-06) HPE Restriction • Remove DEHP (ID Num: 110727-12) China SEPA • Add DEP (ID Num: 160617-07) HPE Restriction <p>Table 3 (now Table 2 – ortho-phthalates) – add Diethyl phthalate (DEP), CAS number: 84-66-2</p>

HPE Standard 011-2 General Specification for the Environment - Packaging Requirements

Revision, Date, Change number	Brief Description of change
A, 01-Nov-2015	Initial document for HPE.
B, 17-Jun-2016	<p>Update Figure 1 with C/PET labels with Korean marking and delete PET label</p> <p>Removed Section 4.2.1 Japan for Japanese Packaging Marking – scope is only for household (not applicable to HPE products)</p> <p>Removed Section 4.2.4 France (Triman logo requirements) – scope is only for household (not applicable to HPE products)</p> <p>Removed from Section 4.2.5 Europe Green Dot, Cyprus, France, Portugal, and Spain – scope is only for household (not applicable to HPE products)</p> <p>Removed Appendix A Use of Green Dot Symbol in Europe (not applicable to HPE)</p>

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

Revision, Date,	Brief Description of Change
A,01-Nov-2015	Initial document for HPE.
B,17-Jun-2016	<p>Several editorial changes throughout the document removing content for products not associated with HPE.</p> <p>4.1.2.1 New updated label for Brazil 4.5.4 New updated label for Brazil and text that follows the label 5.1.2.1.1 New updated label for Brazil and text 5.1.3 New updated label for Brazil and text that follows the label 5.2.9 (India RoHS) revised the specification date in the second paragraph 6.2.2 and Appendix A, Updated to China RoHS 2 8.1.3 (Editorial) Corrected Table reference 8.1.13 Edit for reduced scope to HPE products only 8.1.17 (Lot19) major content change</p>

HPE Standard 011-05 General Specification for the Environment – Substance Disclosure Requirements

Revision, Date, Change Number	Brief Description of change
A, 01-Nov-2015	Initial document for HPE.

Revision, Date, Change Number	Brief Description of change
B, 17-Jun-2016	<p>Moved Ceramic Fibres (CAS 142844-00-6) from Table 1 in Appendix A to Table 2 (not typically found in hardware articles and EEE)</p> <p>Added Candidate List 14 to Table 1 in Appendix A</p> <ul style="list-style-type: none"> • 1,3-propanesultone • 2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) • 2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) • Perfluorononan-1-oic acid (2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,9-heptadecafluorononanoic acid and its sodium and ammonium salts) <p>Added Candidate List 15 to Table 1 in Appendix A</p> <ul style="list-style-type: none"> • Dicyclohexyl phthalate (DCHP) • Benzo[def]chrysene (Benzo[a]pyrene) <p>Added Candidate List 14 to Table 2 in Appendix A</p> <ul style="list-style-type: none"> • Nitrobenzene <p>Added Candidate List 15 to Table 2 in Appendix A</p> <ul style="list-style-type: none"> • (±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptane-2-one (4-methylbenzylidene camphor) • 1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)

HPE Standard 011-06 General Specification for the Environment – Manufacturing Process Substances Requirements

Revision, Date, Change Number	Brief Description of change
A, 1-Nov-2015	Initial document for HPE.
B, 17-Jun-2016	<p>Added 1-Bromopropane (ID Number: 160401-02)</p> <p>Table 1 added Fluorinated greenhouse gases (ID Number – 160617-08), scope is refrigeration equipment (EU/517/2014)</p> <p>Table 1 removed Fluorinated greenhouse gases (ID Numbers – 090807-91, 090807-17; and 090807-36)</p>