**Ink Environmental Fact Sheet**

Information on safety and sustainability of original HP printing supplies

Original HP ink cartridges* for use with the **HP PageWide Managed MFP P77740 series**** offer a wide variety of safety and environmental features. HP requires that its cartridges comply with HP standards, requirements of mandatory regulations, and voluntary certification. Main requirements are summarised in HP’s General Specification for the Environment (GSE). Accordingly, HP strongly recommends that users only apply original HP printing supplies to ensure safe and sustainable operation of their HP printer.

**Firm precautions ensure safe products**

**EU and US classification** – HP ink mixtures for HP Officejet and PageWide printing systems are not classified as hazardous according to the assessment criteria for mixtures in the European Union (Regulation (EC) No 1272/2008, as amended)\(^1\). They are neither classified nor labelled as toxic, carcinogenic, mutagenic, toxic to reproduction, sensitising or corrosive. Accordingly, users can be sure that no health risks are to be expected from HP ink mixtures for HP Officejet and PageWide printing systems when used as intended. Most of these HP ink mixtures are also not classified or labelled as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)\(^2\) as well as applicable requirements in the United States (OSHA CFR 1910.1200, as amended)\(^3\). If required, HP ink cartridges might bear supplemental label information for containing particular sensitising agents in accordance with the European Union (Regulation (EC) No 1272/2008, as amended)\(^1\). Further safety information might be provided in the inserts of the products or on the packaging.

**REACH compliance** – HP is committed to meeting all applicable REACH requirements and providing customers with information about the chemicals in our products where required by REACH\(^6\) – including original HP ink cartridges for the HP PageWide Managed MFP P77740 series.

**RoHS conformity** – Where countries apply materials restrictions on electrical and electronic equipment to ink cartridges (such as the European Union’s RoHS Directive 2011/65/EU), HP is committed to meeting all applicable materials restrictions and documentary requirements by the relevant deadlines.
GSE fulfilment – All ink cartridges for the HP PageWide Managed MFP P77740 series meet a variety of strict substances and materials restrictions according to our General Specification for the Environment (GSE). The GSE is a series of standards which defines HP’s global product environmental requirements, applies HP-wide, and contributes to our commitment to global citizenship.

Strict criteria for sustainable ink cartridge boxes

Heavy metals – Packaging materials for printing supplies of the HP PageWide Managed MFP P77740 series must not contain lead, mercury, cadmium, or hexavalent chromium where the sum concentration of these incidental substances is greater than 0.01% (100 ppm) by weight.(5)

CFCs and HCFCs – Chlorofluorocarbons (CFCs) and hydrochlorofluorocarbons (HCFCs) listed in the GSE (including in Standard 011-01, 011-01A, and 011-01B) must not be used in or for the manufacturing of plastic foam packaging materials (for example as a foam blowing agent).(6)

PVC, bleaching agents and phthalates – PVC must not be used in packaging(7) and elemental chlorine shall not be used as a bleaching agent to bleach virgin or recovered content fibre used in paper-based packaging. The phthalates DEHP, BBP, DBP, and DIBP must not be used in packaging in concentrations greater than 0.1% (< 1,000 ppm) by weight in any homogeneous material.(8)

Materials savings – Packaging of ink cartridges for the HP PageWide Managed MFP P77740 series is designed to be fully recyclable in areas where cardboard, newspaper and plastics collection and recycling programs are available.

Return and recycling instead of landfill disposal

Design for recycling – Parts of original HP ink cartridges for HP PageWide Managed MFP P77740 series devices greater than 25 grams in weight are marked with internationally recognised ISO symbols for ease of materials identification.

Ink cartridge return options – HP helps you recycle your original HP ink cartridges – it’s easy and free with the HP Planet partners programme available in more than 60 countries and territories around the world.(10)

Closed-loop recycling process – Original HP ink cartridges returned through HP Planet Partners go through a multiphase recycling process and is reduced to raw materials which can then be used to make new products, such as original HP ink cartridges. You can be confident that cartridges recycled through HP Planet Partners are never refilled, resold, or sent to a landfill. More than 80% of our ink cartridges meanwhile contain 45-70% recycled content.(11)

External proof of sound performance

For meeting more than a hundred criteria, HP PageWide Managed MFP P77740 series devices are certified with the internationally renowned Blue Angel eco label according to RAL-UZ 205 in Germany. This includes ink cartridges and ink mixtures which were part of Blue Angel testing. Accordingly, these ink mixtures do not contain substances as intentionally added constituents which are classified as carcinogenic, mutagenic to germ cells, or toxic to reproduction. Also, they do not contain azo dyes that can release carcinogenic aromatic amines according to REACH Regulation(12), while cobalt and nickel oxides content is as low as reasonably achievable. Biocides are generally checked for strict compliance: only biocides are used for which an active substance dossier for preservatives for products during storage (product type 6) according to EU Regulation(13) has been submitted.

Please note that there is no Blue Angel certification for refilled and remanufactured ink cartridges. Therefore, if users want to make sure that their Officejet or PageWide printing system meets the widely recognised criteria of the Blue Angel, there is no alternative to original HP ink cartridges.
Stringent requirements for suppliers and manufacturing

HP inks for the HP PageWide Managed MFP P77740 series are manufactured following precisely defined formulations using only raw materials from carefully chosen and contracted suppliers in order to achieve high product quality. Manufacturing is conducted in production sites that are ISO certified (ISO 14001, environmental management system) and that include worldwide accepted ISO requirements in the quality management system (ISO 9001:2000, quality assurance in production) or an equivalent programme.

Respective suppliers are committed to comply with our high safety and environmental GSE standards (see above). HP’s verification process to prevent the use of non-compliant material in the products is based on our risk analysis of restricted substances entering the supply chain and includes technical documentation outlined in the European Union’s EN 50581:2012 standard.

Check for potential substance and particle release

When original HP printing supplies are used as intended to operate HP PageWide Managed MFP P77740 series devices, test results meet or exceed relevant occupational and indoor air requirements. In addition, for HP PageWide Managed MFP P77740 series printing systems, HP can confirm compliance with the strict criteria for substance release of the Blue Angel eco label. In detail, this includes potential release of TVOCs, benzene, styrene and unidentified VOCs.

Further details if you want to know more

In-depth information on your particular ink cartridges for HP PageWide Managed MFP P77740 series devices is listed in the following Safety Data Sheets (SDS) which are available on the HP website:

- SDS for HP ink cartridge HP 991A black – no. M0J86SERIES
- SDS for HP ink cartridge HP 991A cyan – no. M0J74SERIES
- SDS for HP ink cartridge HP 991A yellow – no. M0J82SERIES
- SDS for HP ink cartridge HP 991A magenta – no. M0J78SERIES
- SDS for HP ink cartridge HP 991X black – no. M0K02SERIES
- SDS for HP ink cartridge HP 991X cyan – no. M0J90SERIES
- SDS for HP ink cartridge HP 991X yellow – no. M0J98SERIES
- SDS for HP ink cartridge HP 991X magenta – no. M0J94SERIES
- SDS for HP ink cartridge HP 991AC black – no. X4D19SERIES
- SDS for HP ink cartridge HP 991AC cyan – no. X4D10SERIES
- SDS for HP ink cartridge HP 991AC yellow – no. X4D16SERIES
- SDS for HP ink cartridge HP 991AC magenta – no. X4D13SERIES

For HP PageWide Managed MFP P77740 series devices certified with the Blue Angel eco label in Germany, Blue Angel user information documents also provide further details on the particular devices’ environmental performance when operated with original HP printing supplies. The documents can be accessed on the Blue Angel User Information documents subpage on the HP website, the Blue Angel website or by clicking the following links:

- Blue Angel user information for HP PageWide Managed MFP P77740dn
- Blue Angel user information for HP PageWide Managed MFP P77740z

More information on the Blue Angel and certified HP products is available on the Blue Angel section of the HP website.
**Don’t compromise on safety and the environment**

If users want to be sure to get the safety and environmental performance outlined above, HP recommends operating the HP PageWide Managed MFP P77740 series with original HP ink cartridges only.

Alternative non-HP products might significantly alter the behaviour of your HP printer. To ensure users can consider all safety and environmental related aspects at any time, HP makes information on relevant testing of HP original cartridges readily available.

* The listed HP ink cartridges comprise a selection from the region Europe, the Middle East, and Africa (EMEA). It might not be exhaustive.

** This series includes the following models: HP PageWide Managed MFP P77740dn, HP PageWide Managed MFP P77740z. Please note that there are HP printing systems which are available in certain regions only.

*** The compilation of the listed SDSs is not exhaustive and selected based on the following settings from the HP website: Germany/English (country/language).

Supporting references: