



# SHARPEN YOUR SUSTAINABILITY EDGE

## WITH HP LATEX TECHNOLOGY

### HP – RECOGNIZED AMONG THE MOST SUSTAINABLE CORPORATIONS IN THE WORLD<sup>1</sup>

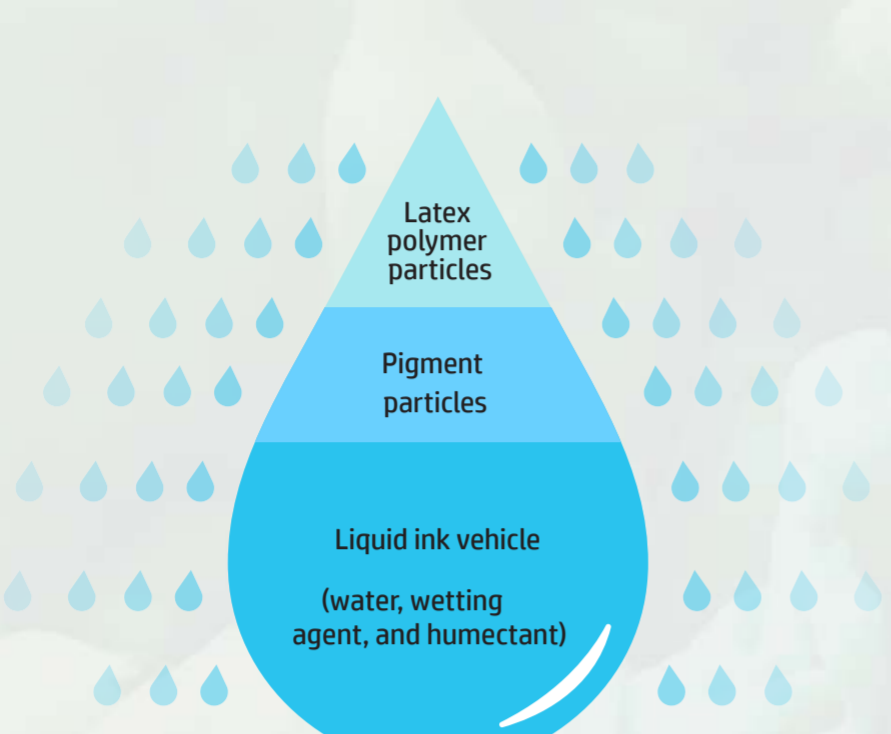
## HELPS YOUR DAY

Making safer operations easier—enable a more comfortable and welcoming operation.

**Water-based ink, up to 65% water**

Water-based HP Latex Inks are designed to avoid the hazards associated with solvent and UV without trading off performance.

**What's in HP Latex Inks?**



- No special ventilation<sup>2</sup>
- No HAPs<sup>3</sup>
- Odorless prints<sup>8</sup>
- No reactive monomer chemistry<sup>4</sup>
- Ozone free

**No special ventilation<sup>2</sup>**

In most competitive inks, up to **80%** of the eco-solvent ink formula is made up of a volatile organic solvent listed as a Hazardous Air Pollutant (HAP) by the EPA.<sup>3</sup> The high volatility of this compound in high concentrations in eco-solvent inks always results in significantly higher levels of VOCs than water-based inks.<sup>4</sup>

**No reactive monomer chemistry<sup>5</sup>**

HP Latex Inks help avoid reactive monomer chemistry exposure and ozone generation.

UV and UV-gel inks can contain up to **80%** hazardous compounds such as acrylate monomers and photo initiators.<sup>6</sup>

## HELPS YOU WIN

Creating more opportunity—support your customers' sustainability goals, differentiate your business, and gain advantages to access new business.

**Odorless prints<sup>8</sup> help you reach more indoor spaces, including sensitive environments such as schools, hospitals, and places with stringent criteria related to human health and environmental considerations.**



**HP Latex Technology delivers the certifications that matter with over 30 environmental certificates and labels.**



**Choose from a wide range of eco-conscious media.**

Combine compatible media with HP Latex Technology to help sharpen your customers' sustainability edge.

See [hp.com/go/mediasolutionslocator](http://hp.com/go/mediasolutionslocator).



## HELPS OUR FUTURE

Reducing impact— aspiring to a world without waste. With an end-to-end approach, HP continues to drive a greater sustainable impact in large-format printing through manufacturing, product design and materials, and product and print end of life.

**Plastic 1-litre ink cartridges replaced with Eco-Carton<sup>14</sup>**

The HP Eco-Carton cartridge reduces plastic by **80%** and CO<sub>2</sub>e by **66%**.<sup>14</sup>

**Annual CO<sub>2</sub>e reduction equivalence of:**

|  |   |
|--|---|
| <b>Over 38 million smartphones charged</b>                       | <b>Over 1 million km (741,935 miles) driven by a car</b>                                  |
| <b>291 tons of CO<sub>2</sub>e/year in manufacturing savings</b> | <b>8 tons of CO<sub>2</sub>e/year in transport savings (better volumetric efficiency)</b> |

**Proper print end of life**

HP Latex prints are recyclable, returnable, or non-hazardous and safe for disposal.<sup>16</sup>

See [hp.com/recycle](http://hp.com/recycle).

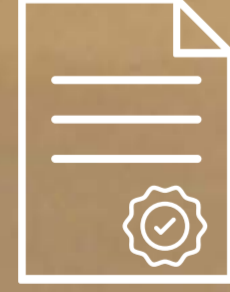
**Reduced impact**

• Water-based HP Latex Inks meet Roadmap to Zero standards that are dedicated to eliminating hazardous chemicals and implementing sustainable chemicals.<sup>13</sup> See [roadmaptozero.com](http://roadmaptozero.com).

• HP printers and supplies contain recycled plastics designed with post-consumer electronics, soda bottles, UL-validated ocean bound plastics, coat hangers, and empty Original HP ink cartridges.

## AS AN HP LATEX PRINTER OWNER YOU CAN...

(Applicable to third- and fourth-generation HP Latex inks)



Print your environmental credentials document and display it with pride for all to see.<sup>17</sup>



Help further develop your environmental profile with the HP EcoSolutions training program.



Take advantage of opportunities to recycle eligible HP supplies and return HP printing materials through our convenient, free-of-charge HP Planet Partners take-back program.<sup>18</sup>

1. HP is recognized as a leader in environmental sustainability and social impact. 2020 Global 100 Most Sustainable Corporations in the World. Annual listing compiled by Corporate Knights, a Canadian-based media and research company. See [hp.com/v2/GetDocument.aspx?docname=c06009298](http://hp.com/v2/GetDocument.aspx?docname=c06009298).

2. Applicable to HP Latex printers. No special ventilation equipment means air filtration systems are not required to meet U.S. OSHA requirements. Condensate collection systems are provided on some models. Special ventilation equipment installation is at the discretion of the customer—see the Site Preparation Guide for details. Customers should consult state and local requirements and regulations.

3. According to manufacturers' safety data sheets (SDSs), most eco-solvent inks contain up to 80% ethyl ethers. These are categorized by the Environmental Protection Agency (EPA) as Hazardous Air Pollutants (HAPs) under the Clean Air Act. See [epa.gov/haps/initial-list-hazardous-air-pollutants](http://epa.gov/haps/initial-list-hazardous-air-pollutants).

4. Comparing main solvent of inks' generation of VOCs at same mass/volume and temperature conditions.

5. Printing. Acrylate monomers present in uncured UV inks and UV-gel inks can damage skin.

6. Manufacturers' safety data sheets (SDSs) indicate UV and UV-gel inks contain up to 80% hazardous compounds specified by European Chemicals Agency (ECHA) registered substances database.

7. HP Latex Inks were tested for Hazardous Air Pollutants, as defined in the Clean Air Act, per U.S. Environmental Protection Agency Method 311 (testing conducted in 2013) and none were detected.

8. There is a broad set of media with very different odor profiles. Some of the media can affect the odor performance of the final print.

9. HP 872, 882, and 886 Latex Inks have been tested and demonstrated compliance to the following toy safety methods and protocols: EN 71-3, EN9, ASTM F963-17, US 16 CFR 1303, US 16 CFR 1307, 50R 2011-17, and 50R 2018-83. HP does not recommend using the inks for toys intended to target children under the age of 3 years.

10. Applicable to R Series HP Latex inks. UL ECOLOGO® Certification to UL 2801 demonstrates that an ink meets a range of multi-attribute, lifecycle-based stringent criteria related to human health and environmental considerations (see [ul.com/UL](http://ul.com/UL)). HP is the only printing company with UL ECOLOGO® Certified inks in the "Printing Inks and Graphics Film" product category, see [spot.ul.com/main-app/products/catalog/](http://spot.ul.com/main-app/products/catalog/).

11. Applicable to select HP large format printing materials. BMG trademark license code FSC®-C115319, see [fsc.org](http://fsc.org). HP trademark license code FSC®-C017543, see [fsc.org](http://fsc.org). Not all FSC®-certified products are available in all regions. For information about HP large format printing materials, please visit [HPLFMedia.com](http://HPLFMedia.com).

12. Applicable to HP Latex inks. UL GREENGUARD Gold Certification to UL 2818 demonstrates that products are certified to UL's GREENGUARD standards for low chemical emissions into indoor air during product usage. Unrestricted room size—full decorated room, 33.4 m<sup>2</sup> (360 ft<sup>2</sup>) in an office environment, 94.6 m<sup>2</sup> (1,018 ft<sup>2</sup>) in a classroom environment. For more information, visit [ul.com/gg](http://ul.com/gg).

13. Zero Discharge of Hazardous Chemicals. Applicable to HP Latex Inks. The ZDHC Roadmap to Zero Level 1 demonstrates that an ink conforms to or meets the standards of the ZDHC Manufacturing Restricted Substances List (ZDHC MRSL) 1.1, a list of chemical substances banned from intentional use during production. ZDHC is an organization dedicated to eliminating hazardous chemicals and implementing sustainable chemicals in the leather, textile, and synthetics sectors. The Roadmap to Zero Program is a multi-stakeholder organization which includes brands, value chain affiliates, and associates, that work collaboratively to implement responsible chemical management practices. See [roadmaptozero.com](http://roadmaptozero.com).

14. CO<sub>2</sub>e reduction based on moving from plastic ink cartridge to cardboard HP Eco-Carton ink cartridge, with annual manufacturing savings of 291 tons and transport savings of 8 tons. Equivalent to 1,194,028 km (741,935 miles) driven by an average passenger vehicle or over 38 million smartphones charged.

15. The ink cartridge HP Eco-Carton outer carton is 100% recyclable through local cardboard/paper programs. Inner materials including the ink bag are 55% recyclable and can be returned free of charge to the HP Planet Partners program for reprocessing of plastic parts. Zero landfill. For take-back of ink bag/printhead/prints, visit [hp.com/recycle](http://hp.com/recycle) to see how to participate and for HP Planet Partners program availability; program may not be available in your jurisdiction.

16. Applicable to prints produced with third- and fourth-generation HP Latex Inks. Most HP large format paper-based printing materials can be recycled through commonly available recycling programs, or according to region-specific practices. Some HP media are eligible for return through the free, convenient HP Large Format Media take-back program. Programs may not exist in your area. See [HPLFMedia.com/hp/ecosolutions](http://HPLFMedia.com/hp/ecosolutions) for details. HP large format printing materials, both unprinted and printed with third- and fourth-generation Original HP Latex Inks, are non-hazardous and safe for disposal. Contact your local waste management authority for local area-specific instructions.

17. The Certificate of Environmental Credentials is available to PSPs as a means to demonstrate the environmental credentials of the HP Latex printing assets you have purchased from HP, per the guidelines for use. These credentials have been granted to HP. Print shops/print service providers must seek certification and eco-labels directly with certifying bodies. HP does not imply or grant certification or eco-labels to print shops/PSPs nor does it support individual customer processing of such certifications.

18. For take-back of eligible ink supplies, printheads, and printing materials, visit [hp.com/recycle](http://hp.com/recycle) to see how to participate and for HP Planet Partners program availability; program may not be available in your jurisdiction. Where this program is not available, and for other consumables not included in the program, consult your local waste authorities on appropriate disposal.