HP Indigo ElectroInk [Y+ Yellow, M+ Magenta, C+ Cyan and K+ Black] for use with HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series

Part Numbers: E4C93A, E4C95A, E4C94A, E4C96A, E4C97A, E4C99A, E4C98A, E4D00A

HP Indigo ElectroInk formulations are designed by HP to address a broad range of worldwide regulatory requirements, health and environmental considerations throughout the entire life cycle of a print from production to disposal.

Regulatory Summary

Chemical Inventory Status

HP has completed all necessary notifications and registrations to enable import and sale by HP of HP Indigo ElectroInk PN: E4C93A, E4C95A, E4C94A, E4C96A, E4C97A, E4C99A, E4C98A, E4D00A. Customers and Channel Partners are responsible for ensuring that they comply with any legal requirements relating to their export, import, or distribution of any HP Indigo ElectroInk supplies. Please contact HP's Sustainability and Compliance Center for guidance on specific importation and distribution-related inquiries for countries/regions with tiered registration schemes or where customers may be required to take other actions to comply with chemical regulatory requirements related to export, import, or distribution of HP Indigo ElectroInk.

Chemicals of Concern

HP Indigo ElectroInk Y+ Yellow, M+ Magenta, C+ Cyan and K+ Black for use with HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series DO NOT contain the following regulated materials as intentionally added substances:

- Arsenic, antimony, soluble barium, cadmium, chromium, cobalt, mercury, lead, nickel, copper[1], and selenium
- Restricted azo colorants [2]
- Heavy metals in a combined concentration of 100 parts per million by weight as below regulations:
  - EU Packaging Directive on Packaging and Packaging Waste (94/62/EC)
  - Packaging and Packaging Waste Regulation (EU 2025/40)
  - Toxics in Packaging Prevention Act, State of California Health and Safety Code §§25214.11-25214.26 (California TIPP)
  - TPCH Model Legislation
  - Coalition of Northeastern Governors (CONEG)
- Perfluorooctanoic acid (PFOA), PFOA Salts, and PFOA-related compounds
- Perfluorocarboxylic (PFCA), PFCA Salts, and PFCA-related compounds
- Perfluorohexanoic acid (PFHxS), PFHxS Salts, and PFHxS-related compounds
- Perfluorooctane sulfonates (PFOS) and PFOS salts
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Tin and Organo-tin Compounds (Directive 2009/425/EC)
- Biocidal products as set forth in Regulation (EU) No 528/2012
- Diisocyanates as set in Commission Regulation (EU) 2020/1149

[1] *Copper is only present in the cyan ink and is present in a bound form as copper phthalocyanine.*
[2] *Regulation (EC) No 1907/2006 (REACH) Annex XVII (article 67) restricts the use of azo colorants that break down to aromatic amines known to cause cancer.*

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- Chemical substances included in section 71 of the Canadian Environmental Protection Act, 1999 (CEPA 1999)[3]
- Active and intelligent materials based on Regulation (EC) No. 450/2009
- Chemical substances included in the Japanese Voluntary Regulation Concerning Printing Inks (Negative List (NL) Regulation), as published on 1/5/2023
- Conflict minerals:
  - CMRT: the minerals of concern are columbite-tantalite, cassiterite, wolframite and gold
  - EMRT: the minerals of concern are Cobalt and Natural Mica
- Animal derived materials and Genetically Modified Organisms (GMO)
- Phthalates [4]
- Bisphenols [5]
- Photo initiators or UV-curing materials [6]
- Vegetable oils [7]
- Silver salts [8]
- Silicone based materials
- Polymers[9] families and substances listed below and their monomers:
  - Vinyl based polymers (e.g., PVC, PVDC, PVB, PVA and PVOH (including the monomers))
  - Styrene based polymers (PS & EPS - Expanded Polystyrene Foam)
  - Acrylonitrile based polymers (ABS)
  - Epoxy based polymers. [10]
  - 1, 3 butadiene-based polymers
- Organic Solvents[11]
- Plasticizers and Bio-based plasticizer[12]
- Transmissible Spongiform Encephalopathy (TSE) and Bovine Spongiform Encephalopathy (BSE)
- Plant or animal species (or parts or derivatives made thereof) which are:
  - Protected by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
  - Protected by the U.S. Endangered Species Act (ESA)
- nanomaterials (1-100 nm) in unbound state [13]
- Formaldehyde
- Isocyanates
- Nitrites, Nitrocellulose, N-nitrosamines and N-Nitrosatable Substances
- Chlorinated and Brominated Flame Retardants
- Halogenated hydrocarbons[14]
- Benzophenone
- Nitrosamines and nitrosamine-forming substances (including nitrites, nitrocellulose, and N-nitrosatable amines)

[3] *This notice applied to approximately 81 substances that are toxic as defined under section 64 of CEPA 1999.*
[4] *e.g. DEHP, DIOP, DEP, BBP, DBP, DIBP, DIDP, DINP, DNHP, DNOP, DNPP, DPENP, DMEP, DIPP and DCHP*
[5] *e.g. Bisphenol A, B, E, F, AF, S, BADGE, BFDGE, o-Bisphenylol*
[6] *e.g. Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO), Isopropylthioxanthone (ITX), 2-hydroxy-2-methylpropiophenone*
[7] *e.g. Palm Oil, Sunflower Oil, Olive Oil, etc.*
[8] *e.g., silver, silver chloride, silver nitrate*
[9] *Also Poly glycol acid (PGA), Polyethylene terephthalate glycol (PETG), Polyphenylene Sulfide (PPS), Polycarbonate (PC), Polylactic acid (PLA), Polyoxymethylene (POM), Polyacrylamide (PAM), Polyamide, Polyhydroxyalkanoates (PHAs), Polybutylene Terephthalate (PBT) and Polytrimethylene naphthalate (PTN)*
[10] Also *substances listed on Regulation (EC) No. 1895/2005.*
[11] *Acetic ether, Acetone, Benzyl alcohol, Butyl Cellosolve, Ethanol, Ethylbenzene, IPA, MEK, MIBK, Methylisobutyl ketone, Methanol, Xylenes, 2-Ethoxyethanol, 2-Methoxyethanol, N-methyl-2-pyrrolidone, Tetrahydrofuran (THF), Toluene, Monochlorobenzene*
[12] *e.g. Phthalate-based, Diethylhydroxylamine (DEHA), Acetyltributylcitrate (ATBC), Orgnophosphate/phosphite, Adipates*
[13] *HP Indigo black inks contain Carbon Black, CAS number 1333-86-4, the black pigment is present in this preparation only in a bound form and it remains bound within the ink resin matrix. It does not present an inhalation or migration risk.*
[14] *e.g. Dichloromethane, Trichloromethane, Trichloroethylene, Carbon tetrachloride, Tetrachloroethylene, 1,2-Dichloroethane, 1,1-Dichloroethane, 1,2-Dichloropropane, 1,1,1-Trichloroethane, 1,1,2-Trichloroethane*

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Chemical Regulations

HP Indigo ElectroInk Y+ Yellow, M+ Magenta, C+ Cyan and K+ Black for use with HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series DO NOT contain intentionally added components falling into the categories below:

- Substances currently regulated under Annex XIV of EU REACH (authorizations) or substances currently restricted under Annex XVII of EU REACH (restrictions)
- Substances identified as "very high concern" (SVHC) according to EU REACH criteria[15] in concentrations equal to or greater than 0.1%
- Materials subject to RoHS Regulations(Directive 2011/65/EC and Directive EU 2015/863)
- Substances meeting the criteria as persistent, bioaccumulative and toxic (PBT) or “very persistent and/or very bioaccumulative” (VPVB), as defined by Annex XIII to the EU REACH Regulation
- California Proposition 65 listed chemicals present in concentrations exceeding labeling thresholds.
- Directive 2009/48/EC, Annex II, section III Chemical Properties, Point 13
- Substances regulated as persistent organic pollutants and listed in Annex I of (EU) 2019/1021 and the Stockholm Convention
- Ozone Depleting Substances (ODS) listed in Annex I and II of the EU Regulation (EC) No. 2024/590
- Substances requiring risk evaluations under Section 6 of US TSCA
- With the exception that carbon black and copper are present in a bound form, prohibited substances or designated substances above the de minimis mixture concentration specified in the Pollutant Release and Transfer Register, Industrial Safety and Health Act, Chemical Substances Control Law, Poisonous and Deleterious Substances Control Law, Labor Safety and Health Law on substances prohibited to be manufactured, and Ozone Layer Protection Laws of Japan
- Carcinogens, mutagens, or reproductive toxicants (CMRs) specifically listed in the EuPIA Exclusion Policy for Printing Inks and Related Products, Groups A-G, 8th edition, April 2025.
- Substances identified as endocrine disruptors
- Substances considered very toxic or toxic
- Substances classified as respiratory sensitizers
- Substances regulated as drugs and drug precursors or controlled substances requiring special permits for use
- Allergens listed under Annex II of the Regulation EU No. 1169/2011 [16]
- Allergens listed under the FDA Food Allergen Labeling and Consumer Protection Act of 2004 (FALCPA)[16]

HP Indigo ElectroInk Y+ Yellow, M+ Magenta, C+ Cyan and K+ Black for use with HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series contain the following regulated materials:

- An inert fluoropolymer (PTFE) resin, CAS# 9002-84-0. For more information, please ask your HP Contact.
- Mineral Oils:

  HP Indigo ElectroInk for use with the HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series contains an isoparaffinic hydrocarbon as the carrier liquid. This carrier liquid is essentially free of aromatic compounds.

  Based on HP Indigo ElectroInk composition data, HP Indigo ElectroInk as referenced above, complies with the limits for MOSH and MOAH as set forth in the French Mineral Oil order, Article 2 of the Order of April 13, 2022, effective from January 1, 2025.

[15] *The EU REACH candidate list can be accessed at https://echa.europa.eu/candidate-list-table .*

[16] *HP Indigo ElectroInk does not contain these allergens with the exception of one minor ingredient derived from a soybean source at a concentration <0.1%.*

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Human Health and Environmental Attributes

Emissions

These inks do not contain intentionally added components that are defined as Hazardous Air Pollutants (HAPs) or Toxic Air Pollutants (TAPs)[17] . In addition, they do not contain photo chemically reactive solvents. HP Indigo ElectroInk enables HP customers to produce odorless prints as evidenced by results from organoleptic testing conducted in accordance with method EN-1230-1 and DIN 10955.

Volatile Organic Compounds (VOC) content for HP Indigo ElectroInk is provided in the safety data sheet**.** However**,** most of the VOC is not emitted to the atmosphere. The Indigo digital press contains an on-board VOC capture, control, and recycling system. Additional information is available upon request.

Human and Ecological Health

HP Indigo ElectroInk are considered non-hazardous according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) as implemented by the EU Classification, Labeling and Packing Regulation No1272/2008/EC (CLP) and US HazCom 2012. In addition, these formulations adhere to EuPIA Exclusion Policy for Printing Inks and Related Products, 8th ed., April 2025.

Waste

HP Indigo ElectroInk do not contain the following substances and/or characteristics associated with hazardous waste:

- Regulated Metals as known contaminants at quantities exceeding de minimis levels[18]: Arsenic, antimony, soluble barium, cadmium, chromium, cobalt, mercury, lead, nickel, selenium, and copper (with the exception that copper is present in the cyan in a bound form known as copper phthalocyanine)
- Regulated Organics. [19] Human health and/or ecological toxicity characteristics, as defined by the EU Classification, Labelling, and Packaging (CLP) Regulation 1272/2008/EC

Specialty Applications

Food Contact

HP Indigo ElectroInk Y+ Yellow, M+ Magenta, C+ Cyan and K+ Black for use with HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series are suitable for certain printing applications involving the non-food contact surface of plastic and paperboard packaging.

HP has conducted migration testing on these formulations based on a Representative Use Case (RUC). Results from HP's migration testing also address the potential risk introduced by residual primary aromatic amines (pAAs) in line with EuPIA Guidance . In addition, an odor testing was completed for these formulations based on HP's RUC and conducted in accordance with method EN-1230-1 (Robinson method) using SLMB Chap. 47A and Chap. 63B, and DIN EN 4120.

HP assesses Non-Intentionally Added Substances (NIAS) in accordance with internationally recognized scientific principles on risk assessment. HP's NIAS risk assessment conclusions support the safe use of these formulations in printing applications based on HP's representative use case (RUC). For more information, please contact HP.

The information summarized above is intended to support customers in carrying out their own compliance assessment and testing relevant to their specific packaging configurations, use cases, and printing conditions.

[17] *Based on formulation data and per* Clean Air Act Section 112 for hazardous air pollutants and US states regulations of Toxic air pollutants
[18] *HP assesses known contaminants against the most conservative de minimis level published by authoritative sources including, but not limited to, EU REACH, EFSA, German BfR, US EPA, and CA Proposition 65.*
[19]*California regulated organics list for hazardous waste.: California Code of Regulations, Title 22, Chapter 11, Article 3*

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August 2026

Good Manufacturing Practices (GMP) Statement

HP Indigo ElectroInk Y+ Yellow, M+ Magenta, C+ Cyan and K+ Black for use with HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series are manufactured according to Good Manufacturing Practices (GMP) adhering to quality requirements for producing fluids of consistent composition and quality while maintaining robust quality assurance and control systems. The manufacturing operations of HP Indigo ElectroInk as referenced above are carried out in accordance with the following:

- FDA Title 21 CFR 174.5, General Provisions Applicable to indirect Food Additives
- Article 5, 6, and 7 of the Commission Regulation (EC) No 2023/2006, Good Manufacturing Practices (GMP)

Toys

HP Indigo ElectroInk Y+ Yellow, M+ Magenta, C+ Cyan and K+ Black for use with HP Indigo 7000, 7500, 7600, 7800, 7900 and 7K Digital Press series DO NOT contain compounds at a concentration exceeding the levels as set forth by the following toy safety regulations and methods/protocols)

- Directive 2009/48/EC, Annex II, section III, point 13 and amendment 2017/738/EU on lead migration limits
- EU Toy Safety Directive: EN 71-3
- US 16 CFR Part 1303 and 1307
- Bisphenol A - Specific Target Analyte Results

it is the obligation of the toy manufacturer to adequately classify the toy for specific use and demonstrate adherence to all toy safety requirements applicable to the final toy product.

Additional Resources

More information about HP's sustainable impact programs can be found at: **hp.com/go/report**

HP ink SDSs can be found at: **hp.com/go/ecodata.**

For more information or questions please visit the HP Sustainability and Compliance Center at: **hp.com/go/SCC**

Legal Disclaimer

Worldwide chemical regulatory requirements are subject to change without notice. Thus, HP will issue updates to this document periodically. Customers should consult their HP account manager to verify any updated information and to obtain the latest version of this document.

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