

BizNGO Annual Meeting

Identifying Chemicals of Concern and Safer Solutions for Vulnerable Populations

December 5, 2023

Presented by Janet Nudelman
Director, Campaign for Safe Cosmetics
Sr. Director of Program and Policy, BCPP





Breast Cancer Prevention Partners is the leading and only national science-based advocacy organization working to prevent breast cancer by eliminating our environmental exposures to toxic chemicals.

BCPP's Campaign for Safe Cosmetics protects people and the planet from toxic chemicals by educating the public; transforming the beauty industry to make products safer; and advocating for health-protective laws that benefit everyone regardless of where they live, work, or shop. As the original trailblazer for safe cosmetics, we focus on eliminating dangerous chemicals linked to cancer and other serious health concerns from beauty and personal care products once and for all.



Why Prevention?

- **1 in 8** women in the U.S. will be diagnosed with breast cancer in her lifetime.
- BC is NOW the leading cause of cancer death for **younger women (aged 20-39)**!
- The majority of women have **no known genetic risk factors** for breast cancer.
- There is a **definitive and growing body of scientific evidence** linking breast cancer – and other serious diseases and chronic health conditions - to chemicals in our everyday lives- in our food, our products, our air, and our water.



Toxic exposures linked to breast cancer in consumer products add to other unsafe exposures experienced by already impacted communities

Including:

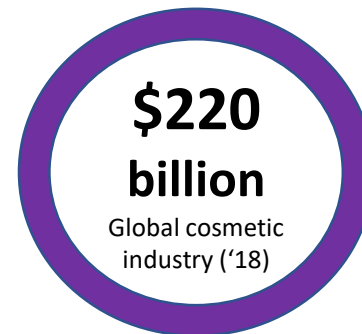
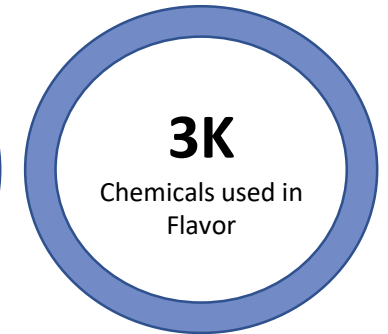
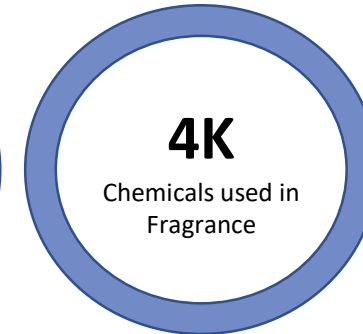
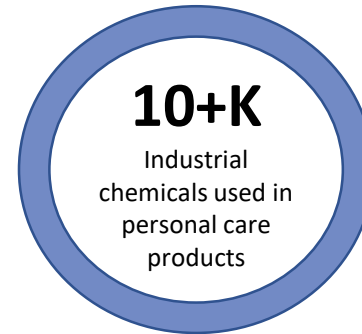
- Water Pollution
- Air Pollution (indoor & outdoor)
- Land pollution
- Workplace exposures
- Pesticides and herbicides



Cosmetic Chemicals and the Industry By the Numbers

FOUND IN: The vast majority of personal care products including bubble bath, sunscreen, shampoo, soap, body wash, deodorant, body lotion, makeup, toner, serums, exfoliating scrubs, mouthwash, toothpaste, chap stick and perfume.

HEALTH CONCERNS: cancer, reproductive toxicity, endocrine disruption, respiratory harm, allergies, air and water pollution.



Environmental Injustice of Beauty

- Current beauty standards celebrate light/white skin, European facial features, hair textures, and body types
- Standards reinforce structural racism.
- Compared with White women, women of color have higher levels of beauty product-related environmental chemicals in their bodies, independent of socioeconomic status.



The Face of the Toxic Beauty Industry



Permanent hair dye and straighteners may increase breast cancer risk
For hair dye, black women had greater risk than white women. For straighteners, the increase was the same in both groups.
BY ROBIN ARNETTE
The study found that women who use permanent hair dye and chemical hair straighteners have a higher risk of developing breast cancer than women who do not use these products.

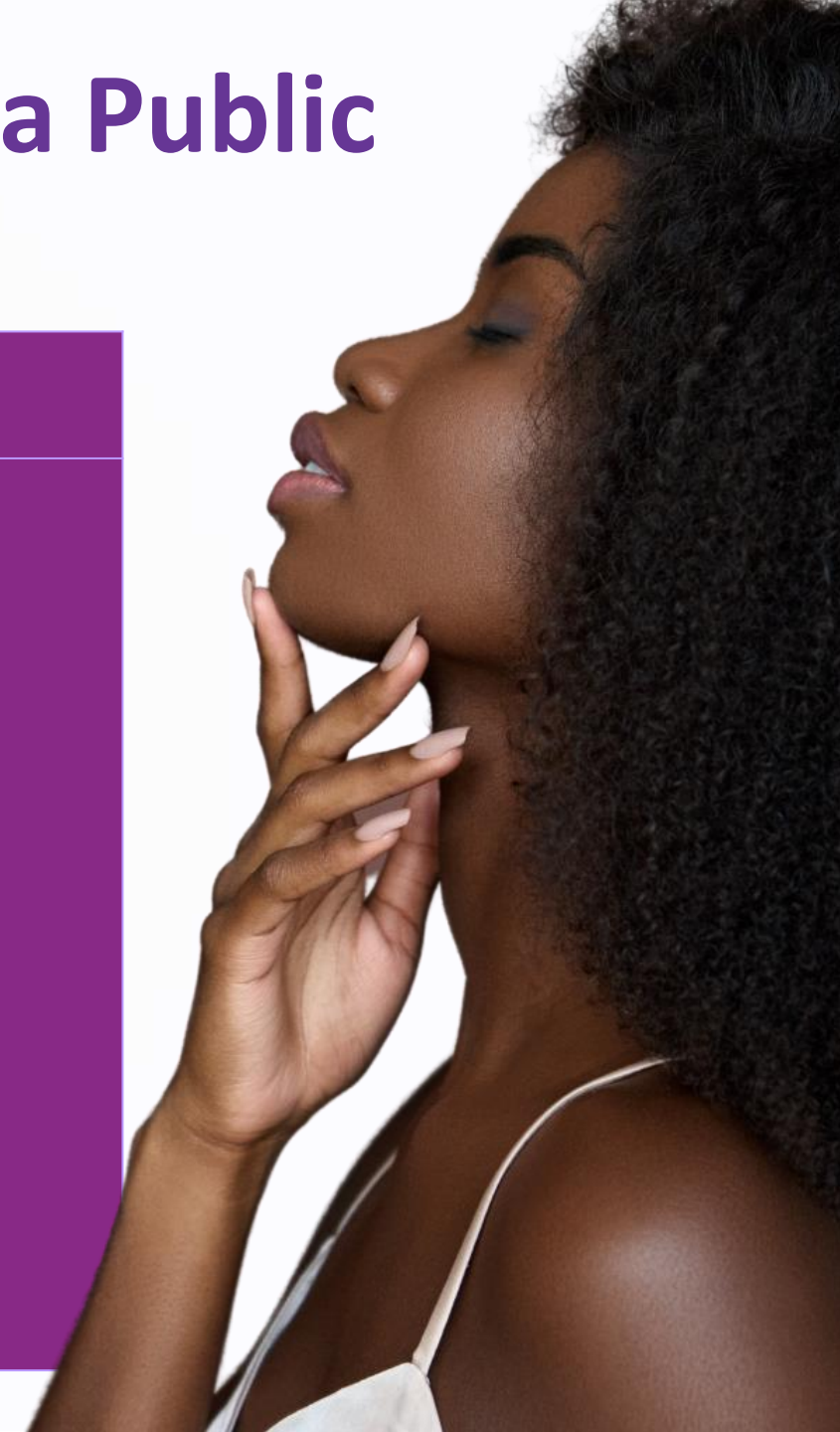
Breast Cancer Death Rates Are Highest for Black Women—Again

People who use hair straightening chemicals have an increased risk of cancer
npr By Alana Wise
Published October 25, 2022 at 4:38 PM EDT
LISTEN • 3:21

AILSA CHANG, HOST:
A new study finds that women who often use hair straightening chemicals may have a higher risk of uterine cancer. A majority of those who report using these products are Black women. NPR's Alana Wise has more.

ALANA WISE, BYLINE: The National Institutes of Health reported an increased risk of uterine cancer in people who use hair straightening chemicals. Among women who use these products, often called perms or relaxers, the risk of developing uterine cancer has more than doubled. These treatments are especially popular among Black women. Alexandra White, the lead author on the study, noted the risk of developing uterine cancer is relatively small.

Toxic Black Beauty Products are a Public Health Issue!



The Non-Toxic Black Beauty Project



Help get safer products into the hands of Black women and girls

Search the Database

The Non-Toxic Black Beauty Project is tackling the environmental injustice of Black beauty with our list of **80 top Black-owned brands** and **database of over 700 non-toxic Black beauty products** that Black women can trust. [See the list>](#)



20 Advisory Committee Members



Dr. Adana A.M. Llanos

Associate Professor of Epidemiology at Columbia Mailman School of Public Health



Dr. Ami Zota

Associate Professor, Columbia University Mailman School of Public Health



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Co-Founder of Clearya



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Environmental Justice Program Manager at Black Women for Wellness



Dr. Bhavna Shamasunder

Professor, Occidental College



Maimah Karmo

Founder & CEO, Tigerlily Foundation



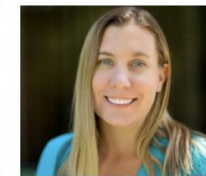
Paula Johnson

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M. Isabelle Chaudry, Esq.

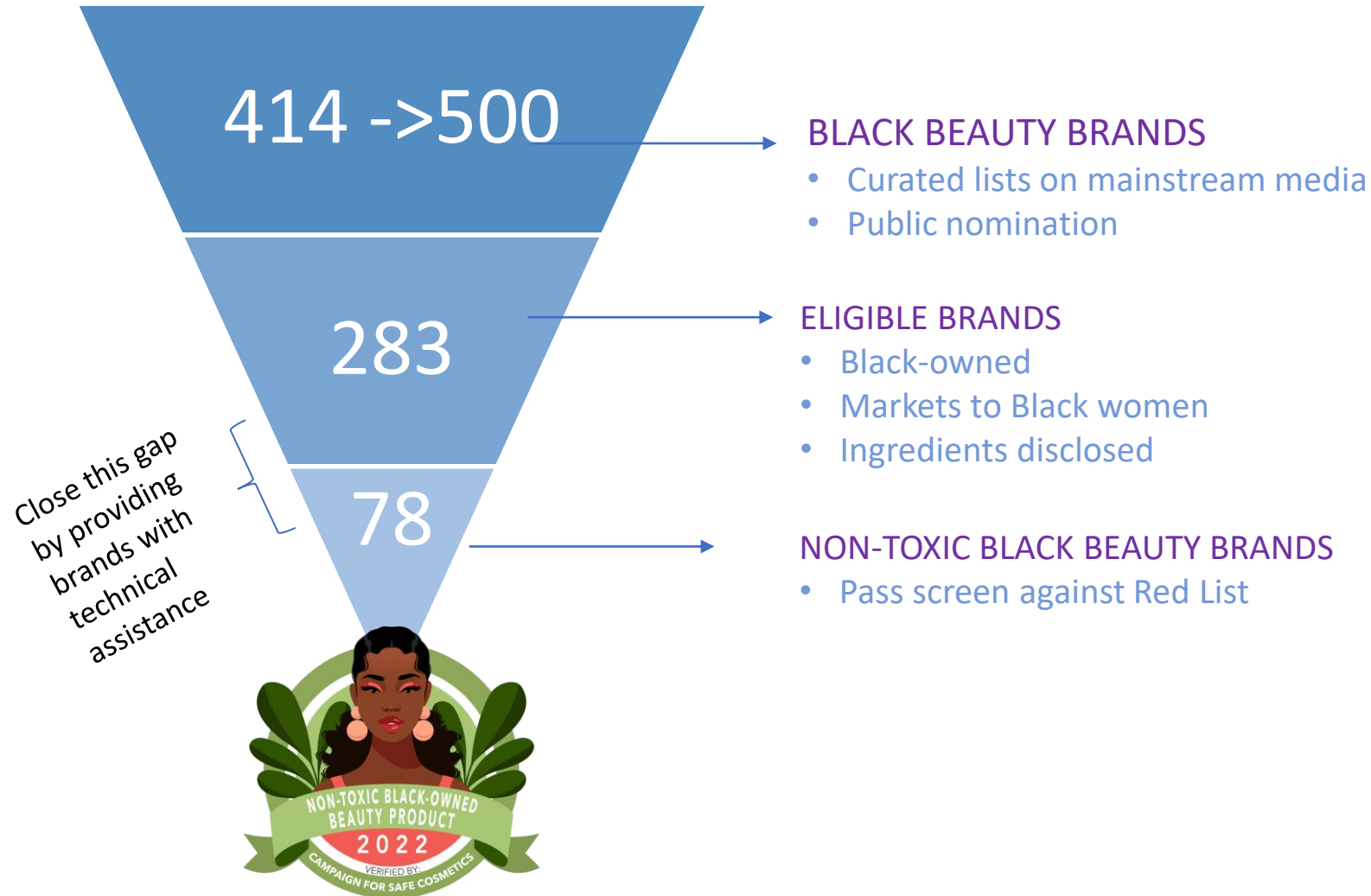
Founder of the Equity and Wellness Collaborative



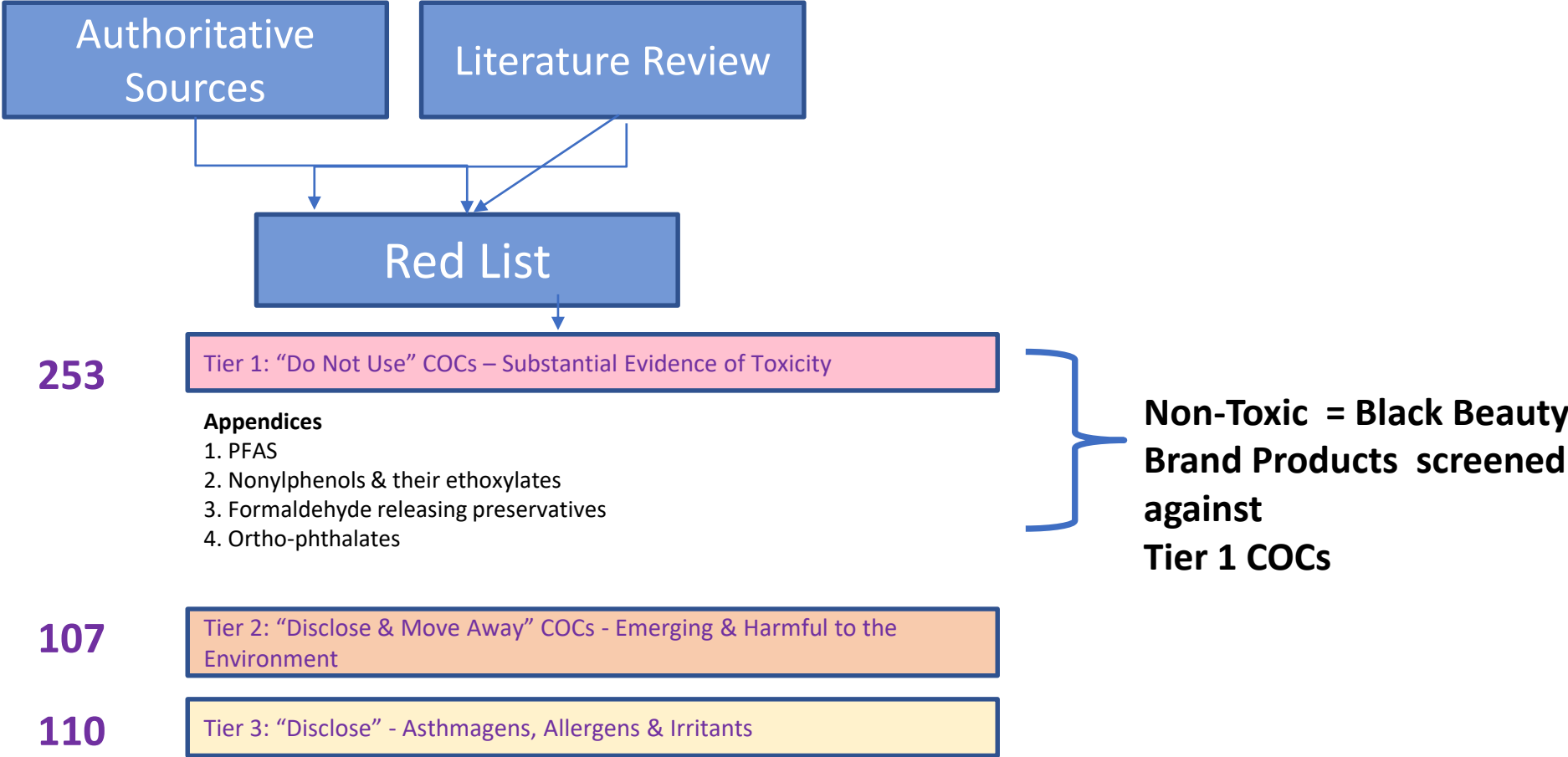
Tiah Tomlin-Harris

CEO & Advocate, My Style Matters, Inc.

Building a Non-Toxic Brand List



Building the Black Beauty Red List of Chemicals of Concern in Cosmetics



RED X LIST



Chemicals of Concern

TIER 1: "DO NOT USE" CHEMICALS LINKED TO HEALTH OUTCOMES OF GREATER CONCERN TO BLACK WOMEN

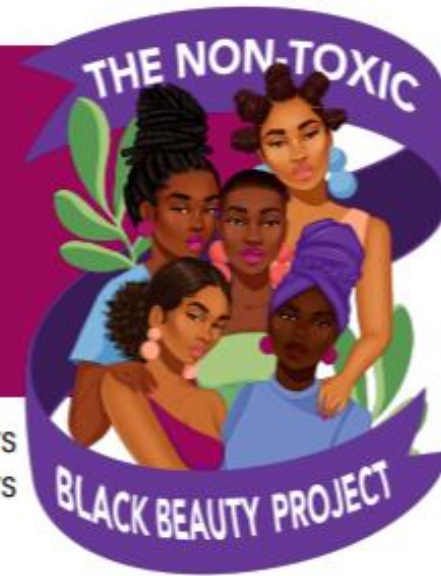


CAS Number	Chemical Name	PCP	FR	Diabetes	Early Puberty	Endometriosis	Infertility	Less Successful IVF Outcomes	Maternal Health	Obesity	Ovarian Cancer	Polycystic Ovarian Syndrome	Pregnancy Complications	Preterm Birth	Uterine Fibroids	Allergic Reactions
100-42-5	Styrene (Cinnamene)	○	○						○				○			
91-20-3	Naphthalene	○	○						○				○			
119-61-9	Benzophenone	○	○			○				○						
25154-52-3	Nonylphenol		○	○					○				○		○	
131-57-7	Oxybenzone BP-3 Benzophenone-3	○	○		○	○	○	○		○						
131-56-6	2,4-Dihydroxybenzophenone; Resbenzophenone; Benzophenone-1	○	○			○										
99-76-3	Methyl paraben	○	○		○	○							○	○		
94-13-3	Propyl paraben Propyl p-hydroxybenzoate	○	○	○	○	○	○		○				○	○		
94-26-8	Butylparaben	○	○	○					○				○	○		○
120-47-8	Ethyl paraben	○	○	○			○	○	○				○	○		○

RED X LIST

Chemicals of Concern

Toxic Chemicals Found in Black Beauty Products



These Red List chemicals of concern were found in the ingredients of 1,848 of the 7,700+ Black beauty and personal care products we reviewed in 2021-2022.

1. Titanium Dioxide (inhalable form)
2. Silica (inhalable form)
3. Retinol (Vitamin A)
4. Butylated Hydroxytoluene (BHT)
5. Propylparaben
6. Butyl Acetate
7. Ethyl Acetate
8. Methylparaben
27. Polyacrylamide
28. Triphenyl Phosphate (TPP)
29. p-Phenylenediamine
30. Ethylhexyl Dimethyl PABA
31. Homosalate
32. FD&C Red n4
33. Sodium Borate
34. Resorcinol

Annotated Bibliography

Obesity (8):

Karakis, I., Baumfeld, Y., Landau, D., Gat, R., Shemesh, N., Yitshak-Sade, M., Tirosh, O., Sarov, B., & Novack, L. (2021). Exposure to metals and morbidity at eight years follow-up in women of childbearing age. *Scientific reports*, 11(1), 11429. <https://doi.org/10.1038/s41598-021-90904-1>

Karakis et al conducted an exploratory study aimed to investigate the link between toxic metal content in women's urine and their morbidity. The group reported that increased levels of cadmium were linked to cancer, but increased levels of lead were associated with cardiovascular outcomes and obesity [98].

Kim, S. H., & Park, M. J. (2014). Phthalate exposure and childhood obesity. *Annals of pediatric endocrinology & metabolism*, 19(2), 69–75. <https://doi.org/10.6065/apem.2014.19.2.69>

Kim et al searched the literature for in vivo and in vitro studies that investigated the relationship between phthalate exposure and obesity. Within this review, they discussed possible biological mechanisms by which phthalate exposure could lead to obesity in humans and animals [99].

Lauritzen, H.B., Larose, T.L., Øien, T. et al. Prenatal exposure to persistent organic pollutants and child overweight/obesity at 5-year follow-up: a prospective cohort study. *Environ Health* 17, 9 (2018). <https://doi.org/10.1186/s12940-017-0338-x>

Lauritzen et al aimed to investigate the relationship between prenatal exposure to persistent organic pollutants and offspring weight gain. The group reported that maternal serum PFAS concentrations were positively associated with child overweight/obesity trends at the 5-year follow-up [78].

Lee K. (2018). Blood mercury concentration in relation to metabolic and weight phenotypes using the KNHANES 2011-2013 data. *International archives of occupational and environmental health*, 91(2), 185–193. <https://doi.org/10.1007/s00420-017-1269-0>

Lee examined the association of blood mercury levels with metabolic and weight phenotypes. Lee reported that blood mercury concentration was associated with both metabolic syndrome and obesity. This association occurred in a dose-dependent manner [100].



Tip Cards, Infographics, Fact Sheets



Top Toxic Cosmetic Ingredient to Avoid

UV Filters

(Benzophenone, Oxybenzone, Homosalate, Octinoxate, Avobenzone)

FOUND:
 Sunscreen
 Nail products
 Anti-frizz, hair lotions,
 Leave-in conditioners, hot oil
 Make-up
 Baby care products

HEALTH HARMS:
 Endocrine disruption
 Developmental harm

CSC Campaign for Safe Cosmetics

Top Toxic Cosmetic Ingredient to Avoid

Resorcinol, O, M & P-Phenylenediamine

FOUND:
 Hair dyes

HEALTH HARMS:
 Cancer
 Hormone disruption
 Immune system toxicity
 Irritant

CSC Campaign for Safe Cosmetics

Top Toxic Cosmetic Ingredient to Avoid

Butylated Compounds (BHA and BHT)

FOUND:
 Lipstick
 Eyeliner
 Eyeshadow
 Body care

HEALTH HARMS:
 Cancer
 Hormone disruption
 Organ system toxicity
 Irritant

CSC Campaign for Safe Cosmetics

Top Toxic Cosmetic Ingredient to Avoid

Carbon Black and D&C Black 2

FOUND:
 Eyeliner + eye shadow
 Mascara
 Nail polish
 Brush-on-brow
 Lipstick

HEALTH HARMS:
 Cancer
 Organ system toxicity
 Irritant

CSC Campaign for Safe Cosmetics

RED X LIST

Chemicals of Concern

Top Toxic Chemicals by Black Beauty Product Category

Red List Chemical	Product Category					
	Bodycare	Haircare	Makeup	Nail Products	Skincare	Sunscreen
Benzophenone-1				○		
Benzophenone-2		○				○
Butylated Hydroxyanisole (BHA)			○			
Butylated Hydroxytoluene (BHT)	○	○	○			
Butyl Acetate				○		
Butylparaben		○	○			

RED X LIST

Top Toxic Chemicals Found in Black Beauty Products

These Red List chemicals of concern were found in **25%** of the nearly 8,000 Black beauty and personal care products we evaluated in 2021-2022.

- Titanium Dioxide (inhalable form)
- Silica (inhalable form)
- Retinol (Vitamin A)
- Butylated Hydroxytoluene (BHT)
- Propylparaben
- Butyl Acetate
- Ethyl Acetate
- Methylparaben
- Benzophenone-1
- Carbon Black
- Butylphenyl Methylpropional
- Diazolidinyl Urea
- n-Butyl Alcohol
- Benzyl Salicylate
- DMDM Hydantoin
- Triethanolamine (TEA)
- Cyclotetrasiloxane
- Ethylhexyl Methoxycinnamate
- Butylparaben
- Diethyl Adipate
- Sodium Hydroxymethylglycinate
- Benzophenone-3 or Oxybenzone
- Ethylparaben
- Cyclopentasiloxane
- Imidazolidinyl Urea
- Perfluorononyl Dimethicone
- Polyacrylamide
- Triphenyl Phosphate (TPP)
- p-Phenylenediamine
- Ethylhexyl Dimethyl PABA
- Homosalate
- FD&C Red n4
- Sodium Borate
- Resorcinol
- Polytetrafluoroethylene (PTFE)
- Naphtha-Petroleum
- Benzaldehyde
- Butylated Hydroxyanisole (BHA)
- Chromium Oxide
- Didecylidimonium Chloride
- Isoeugenol
- Benzophenone-2
- Methyl Methacrylate
- Propanol
- Perfluorooctyl Triethoxysilane
- Acetaldehyde
- Hydroquinone
- Triclosan
- Cocamide DEA
- Quaternium-15
- Ter-Butyl Alcohol (TBA)



Public Outreach: Webinars

Webinar for Nurses





Toxic Beauty Products & Black Women's Health:
A Webinar for Nurses



1

Webinar for Black Women & Girls





Toxic Beauty Products & Black Women's Health:
A Webinar for Black women & girls



2

Webinar for Hair Stylists

Toxic Beauty Products & Black Women's Health:
A Webinar for Hairstylists



1



What you can do - Personally

- Detox your day by choosing beauty and personal care products free of toxic chemicals.
- Only patronize companies that fully disclose their fragrance ingredients.
- Do your research! Read Labels!!
- Use apps like Clearya, Think Dirty, Made Safe, and Healthy Living to help you become a more informed and smarter shopper!



Get Involved in Changing the System so Everyone is Protected!



- Support state cosmetic safety legislation (NY, VT, MI, MA, ME)
- Call and write your congressional representatives and urge them to support:
 - Safer Beauty bill package
 - No PFAS in Cosmetics Act
- Get active on social media to help create the tipping point necessary to make change
- Take Action:
www.bcopp.org/take-action



Stay in Touch!!

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