

**UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF ILLINOIS
EASTERN DIVISION**

IN RE: HAIR RELAXER MARKETING SALES PRACTICES AND PRODUCTS LIABILITY LITIGATION	MDL No. 3060 Master Docket Case No. 1:23-cv-00818 Honorable Mary M. Rowland
DANA REEVES, Plaintiff, vs. L'ORÉAL USA, INC., L'ORÉAL USA PRODUCTS, INC., and SOFTSHEEN- CARSON, LLC., Defendants.	COMPLAINT AND JURY DEMAND Civil Action No.: _____

COMPLAINT

Plaintiff files this Complaint pursuant to CMO No. 2, and are to be bound by the rights, protections and privileges, and obligations of that CMO and other Orders of the Court. Further, in accordance with CMO No. 2, Plaintiff hereby designates the United States District Court for the SOUTHERN DISTRICT OF OHIO – DAYTON DIVISION as plaintiff’s designated venue (“Original Venue”). Plaintiff makes this selection based upon one (or more) of the following factors (check the appropriate box(es)):

Plaintiff currently resides in DAYTON, OHIO (City/State);

Plaintiff purchased and used Defendant(s)’ products in DAYTON, OHIO (City/State);

The Original Venue is a judicial district in which Defendant _____ resides, and all defendants are residents of the State in which the district is located (28 USC 1391(b)(1)).

The Original Venue is a judicial district in which a substantial part of the events or omissions giving rise to the claim occurred, specifically (28 USC 1391(b)(2)): CANCER DIAGNOSES AND TREATMENT INCLUDING SURGERY.

There is no district in which an action may otherwise be brought under 28 USC 1391, and the Original Venue is a judicial district in which Defendant _____ is subject to the Court's personal jurisdiction with respect to this action (28 USC 1391(b)(3)).

Other reason (please explain): _____.

Further, Plaintiff Dana Reeves, by her undersigned counsel, makes the following Complaint ("Complaint") against Defendants L'Oréal USA, Inc, and L'Oréal USA Products, Inc. ("L'Oréal"), and SoftSheen-Carson, LLC ("SoftSheen")(collectively, "Defendants"), alleging as follows:

NATURE OF THE ACTION

1. This action arises out of Dana Reeves's diagnosis of endometrial cancer and associated injuries. Ms. Reeves's endometrial cancer was directly and proximately caused by her regular and prolonged exposure to phthalates and other endocrine disrupting chemicals found in Defendants' hair care products.

2. Plaintiff brings this action against Defendants for claims arising from the direct and proximate result of Defendants, their directors, agents, heirs and assigns, and/or their corporate predecessors' negligent, willful, and wrongful conduct in connection with the design,

development, manufacture, testing, packaging, promoting, marketing, distribution, labeling, and/or sale of the products including Dark & Lovely, Optimum, and Mizani (the “Products”).

I. PARTIES

3. Plaintiff is a citizen and resident of the State of Ohio with her place of residence being Dayton, Montgomery County, Ohio.

4. Defendant L’Oréal USA, Inc. is, and at all times relevant to this action, incorporated in Delaware with its principal place of business and headquarters located at 575 Fifth Avenue, New York, New York 10017 and process may be served upon its registered agent, Corporation Service Company, 80 State Street, Albany, New York 12207.

5. Defendant L’Oréal USA Products, Inc. is, and at all times relevant to this action, incorporated in Delaware with its principal place of business and headquarters located at 10 Hudson Yards 347 10th Avenue New York, New York 10001 and process may be served upon its registered agent, Corporation Service Company, 80 State Street, Albany, New York 12207.

6. Defendant Soft Sheen-Carson, LLC, is, and at all times relevant to this action, a limited liability company organized in New York with its principal place of business and headquarters located at 80 State St., Albany, New York 12207 and process may be served upon its registered agent, Corporation Service Company, 80 State Street, Albany, New York 12207. Plaintiff alleges that, at all times relevant to this action, Soft Sheen-Carson, LLC’s members and sole interested parties are L’Oréal S.A., a corporation having its headquarters and principal place of business in France; and L’Oréal USA, Inc., incorporated in Delaware with its principal place of business and headquarters at 575 Fifth Avenue, New York, New York 10017. This

Court has jurisdiction over Soft Sheen-Carson, LLC based on complete diversity between the citizenship of Plaintiff and the citizenship of each member of Soft Sheen-Carson, LLC and Defendants collectively.

7. No Defendant in this action is incorporated in the State of Ohio, maintains a principal place of business in the State of Ohio, or has members who are citizens of the State of Ohio. As Plaintiff is a citizen of the State of Ohio, complete diversity exists in this action.

8. At all pertinent times, all Defendants were engaged in the research, development, manufacture, design, testing, sale, and marketing of the Products, and introduced such products into interstate commerce with knowledge and intent that such products be sold in the State of Ohio.

9. Plaintiff purchased Defendants' products in the State of Ohio, and the damages sustained by Plaintiff as alleged herein occurred within the State of Ohio.

10. At all times material hereto, Defendants developed, tested, assembled, manufactured, packaged, labeled, prepared, distributed, marketed, supplied, and/or sold the defective Products, including but not limited to:

- a. Dark & Lovely,
- b. Optimum, and
- c. Mizani,

11. Defendants' defective hair product was placed into the stream of interstate commerce and was used by the Plaintiff from 1982 to 2019.

12. On June 24, 2021 Plaintiff was diagnosed with endometrial cancer, a diagnosis caused by Plaintiff's exposure to chemicals in the Defendants' hair care products.

II. JURISDICTION AND VENUE

13. This Court has subject-matter jurisdiction over this case under 28 U.S.C. § 1332(a) because the amount in controversy exceeds \$75,000 and Plaintiff and Defendants are residents of different states.

14. Upon information and belief, at all relevant times, Defendants were present and transacted, solicited and conducted business in the State of Ohio through their employees, agents and/or sales representatives, and derived substantial revenue from such business.

15. At all relevant times, Defendants expected or should have expected that their acts and omissions would have consequences within the United States and the State of Ohio.

16. This Court has personal jurisdiction over Defendants because they conduct business in Ohio, purposefully direct and/or directed their actions toward Ohio, consented to being sued in Ohio by registering an agent for service of process in Ohio, and have the requisite minimum contacts with Ohio necessary to constitutionally permit this Court to exercise jurisdiction. Moreover, Defendants' actions and/or inactions described herein were purposefully directed at and/or within the State of Ohio, the damages were sustained by Plaintiffs within the State of Ohio, and the damages sustained by Plaintiffs were a result of Defendants' actions and/or inactions—described herein—that were purposefully directed at and/or within the State of Ohio.

17. Venue in this District is proper under 28 U.S.C. § 1391, because a substantial part of the events or omissions giving rise to the claims alleged herein occurred in this District and Plaintiff resides in this District.

18. Venue is proper in this district pursuant to 28 U.S.C. §§1391(a) and (b)(2) and 1391(c)(2) because a substantial part of the events or omissions giving rise to the claims occurred

in this judicial district, and the Defendants are subject to this Court's personal jurisdiction. Venue is also proper under 18 U.S.C. § 1965 (a) because Defendants transact substantial business in this district.

III. FACTS COMMON TO ALL COUNTS

A. Hair Straighteners and Relaxers

a. Market for Hair Straightening and Relaxing Products

19. Black people make up about 13 percent of the U.S. population, but by one estimate, African American spending accounts for as much as 22 percent of the \$42 billion-a-year personal care products market, suggesting that they buy and use more of such products – including those with potentially harmful ingredients– than Americans as a whole.¹

20. In an analysis of ingredients in 1,177 beauty and personal care products marketed to Black women, about one in twelve (12) was ranked highly hazardous on the scoring system of EWG's Skin Deep® Cosmetics Database, a free online resource for finding less-hazardous alternatives to personal care products. The worst-scoring products marketed to Black women were hair relaxers, and hair colors and bleaching products. Each of these categories had an average product score indicating high potential hazard.

¹ Thandisizwe Chimurenga, *How Toxic is Black Hair Care?*, New America Media, Feb. 2, 2012, americamedia.org/2012/02/skin-deep-in-more-ways-than-one.php; *Personal Care Products Manufacturing Industry Profile*, Dun & Bradstreet First Research, August 2016, www.firstresearch.com/Industry-Research/Personal-Care-Products-Manufacturing.html (This report uses "Black" to describe not only people who identify as African-American, but Black people in the U.S. who come from the Caribbean or other areas. "African-American" is used only when a cited source specifies that term).

21. In the U.S. alone, Black consumers spend over \$1 trillion each year, with a significant amount of that spending toward hair care products.

22. In 2020, the global Black Hair care market was estimated at \$2.5 billion, with the hair relaxer market alone estimated at \$718 million in 2021, with the expectation of growth to \$854 million annually by 2028.

b. History of Hair Relaxers in America

23. In its natural or virgin state, afro-hair texture is characterized by coily, springing, zigzag, and s-curve curl patterns; as well as its density, fullness, texture, and feel.²

24. Afro-textured hair “naturally grows up and out.”³

25. In Africa, hair was seen as a source of personal and spiritual power. As the highest point of the body and “most elevated part of the body, some communities believe[d] [their hair] connected them with the divine.”⁴ For some, hair was the “conduit for spiritual interaction with God.”⁵

26. African hairstyles were also status symbols reflecting one’s “marital status, age, religion, and rank in society” and one’s tribe.⁶ Warriors, kings, and queens wore braids to show

² Patrick Obukowcho, *Hair Relaxers: Science, Design, and Application*, 26, 14 (2018).

³ Ayana Byrd & Lori Tharps, *When Black Hair Is Against the Rules*, The New York Times, April 30, 2014, <https://www.nytimes.com/2014/05/01/opinion/when-black-hair-is-against-the-rules.html>.

⁴ Nikki Fox, *6 Things Everyone Should Know About Black Hair History*, Odele, Feb., 22, 2021. <https://odelebeauty.com/blogs/the-rinse/black-hair-history-facts>.

⁵ Rumeana Jahangir, *How Does Black Hair Reflect Black History?*, BBC News. May 31, 2015. <https://www.bbc.com/news/uk-england-merseyside-31438273.amp>.

⁶ *History of Braids: More Than Just a Hairstyle*, Genesis Career College, <https://www.genesiscareer.edu/history-of-braids-more-than-just-a-hairstyle/>.

their ranking in society.⁷ The Wolof tribe in West Africa, wore braided styles when they went to war.⁸

27. Most styling was extremely intricate and involved days of labor. Everyone though engaged in this process as “only the mad and mourning did not do their hair.”⁹

28. One of the of first things slave masters did to enslaved people forced to American soil was cut their hair. This was a way to “break their spirit and make slaves easier to control.”¹⁰ What was once a symbol of pride and symbolism became a tool for subordination and degradation. As such, hair cutting was also a common form of punishment.

29. The very nature of slavery involved working long hours in dire conditions. Enslaved people had “no time to care about one’s appearance or one’s hair.”¹¹ “Hair that was once a source of pride and expression of identity was often tucked away beneath cloth to cover rough, tangles tresses and shield them from hours spent toiling under the sun.”¹² The hair that was once an important spiritual and cultural symbol became tangled and matted.

⁷ *Id.*

⁸ *Id.*

⁹ Hlonipha Mokoena, *From Slavery to Colonialism and School Rules, Navigating the History of Myths about Black Hair*, Quartz Africa, Fe., 24, 2018, <https://qz.com/africa/1215070/black-hair-myths-from-slavery-to-colonialism-school-rules-and-good-hair/>.

¹⁰ Brenda A. Randle, *I Am Not My Hair*, Race, Gender and Class, Volume 22, Number 1-2, 114 – 121 (2015).

¹¹ Nikki Fox, *6 Things Everyone Should Know About Black Hair History*, Odele, Feb., 22, 2021. <https://odelebeauty.com/blogs/the-rinse/black-hair-history-facts>.

¹² *Id.*

30. White Americans did not see African or Black hair as beautiful. Instead they described it as “closer to sheep wool than human hair.”¹³ African hair that was once considered an attractive feature became a source of shame, to be covered or cut.

31. In 1786, the Governor of Louisiana, Don Esteban Miro, passed the “Tignon Law” requiring Black women to wear a tignon (scarf) over their hair as a way of signifying they were members of the slave class, *even if they were free*.¹⁴

32. “By requiring free Black women to wear the same hair covering, the governor was marking them as related to enslaved women rather than white women.”¹⁵

33. This law sent a direct signal to Black people that their hair held a symbol of inequality and was a sign of poverty regardless of their actual social status.

34. Because afro-textured hair was kinky and reflected African heritage rather than European ancestry afro-textured hair was a symbol of low social status.¹⁶

35. Slaves with lighter skin and less coily hair were favored to work in the home, a far less strenuous position than in the plantation fields.¹⁷

¹³ Ayana Byrd & Lori Tharps, *When Black Hair Is Against the Rules*, The New York Times, April 30, 2014. <https://www.nytimes.com/2014/05/01/opinion/when-black-hair-is-against-the-rules.html>

¹⁴ Nikki Fox, *6 Things Everyone Should Know About Black Hair History*, Odele, Feb., 22, 2021, <https://odelebeauty.com/blogs/the-rinse/black-hair-history-facts>.

¹⁵ *Fashionable Rebellion*, Women and the American Story, New York Historical Society Museum and Library, <https://wamrs.nyhistory.org/settler-colonialism-and-revolution/settler-colonialism/fashionable-rebellion/>.

¹⁶ Brenda A. Randle, *I Am Not My Hair*, Race, Gender and Class, Volume 22, Number 1-2, 114 – 121 (2015).

¹⁷ *Id.*

36. Texturism, the idea that “good hair” is equated with a straighter hair texture, was cemented into American culture during its period of chattel slavery. “Eurocentric beauty standards dictated that coily hair and dark skin were unattractive and inferior”; “lighter skinned and straighter haired slaves were favored and selected for more desirable positions in the house” as opposed to the fields.¹⁸ Thus, “the texture of an enslaved person’s hair could determine their value and working conditions, which in turn might impact their overall health, comfort and chances for freedom[.]”¹⁹ Naturally, Black men and women strived for a better life in the Americas and were taught that the straighter and less kinky their hair was, the better a life they could have. This fueled the desire for tools and products that could straighten Black hair texture.

37. Gone were the days of African hairstyles and pride. “The goal of grooming the hair had morphed from the elaborate and symbolic designs of Africa into an imitation of White styles adapted to Black kinks and curls.”²⁰

38. In an effort to obtain a better life, so many slaves would go to “dangerous lengths to straighten their hair.”²¹

39. Black, or afro-textured hair texture, can be manipulated into a straightened state with the use of hair tools and hair products. Prior to the invention of the chemical relaxer in 1900s, individuals would “press” afro-textured hair with metal hair tools such as the “hot comb.” Pressing

¹⁸ *Id.*

¹⁹ *Id.*

²⁰ Brenda A. Randle, *I Am Not My Hair*, *Race, Gender and Class*, Volume 22, Number 1-2, 114 – 121 (2015).

²¹ Nikki Fox, *6 Things Everyone Should Know About Black Hair History*, Odele, Feb., 22, 2021. <https://odelebeauty.com/blogs/the-rinse/black-hair-history-facts>

combs or hot combs are metal hair tools that are first heated in a stove or ceramic heater, then pressed into hair strands to temporarily straighten them.²²

40. The hot comb was first invented by Frenchman, Marcel Grateau who popularized the hair styling tool in Europe in the 1870s, including advertisements in catalogs of major department stores like Sears and Bloomingdales.²³ The hot comb was later modified by Madam C.J. Walker, a trailblazer in the development of black hair products, to be manufactured with wider comb teeth.²⁴ With Walker's system, once the comb was heated a softening ointment was then applied for easier manipulation of black hair.²⁵

41. Today, afro-textured hair is still often straightened with a hot comb rather than with chemicals. However, pressed hair remains susceptible to "shrinkage." Shrinkage is the process by which curly-kinky hair that has been temporarily straightened coils back into its natural state once the hair interacts with water, humidity, or perspiration.²⁶, creating a shorter or fuller appearance.

²² Jaclyn Peterson, *The Price of Beauty*, CTI Charlotte Teachers Institute Curriculum (2021).

²³ Henry Louis Gates, *Madam Walker, the First Black American Woman to Be a Self-Made Millionaire*, PBS 100 Amazing Facts About the Negro, <https://www.pbs.org/wnet/african-americans-many-rivers-to-cross/history/100-amazing-facts/madam-walker-the-first-black-american-woman-to-be-a-self-made-millionaire/> (last visited October 18, 2022).

²⁴ Cookie Lommel, *Madam C.J. Walker* 60 (1993)

²⁵ *Id.* at 62.

²⁶ *Id.*



Mention THE CASES.

c. The Invention of the Chemical Relaxer

42. African American inventor Garrett Augustus Morgan, discovered and created a system that would permanently straighten afro-textured hair, eliminating the issue of “shrinkage.”

43. In addition to being an inventor, Morgan was a tailor. In the early 1900s, Morgan was repairing his sewing machines and creating a way to polish the needles to stitch fabrics more smoothly.²⁷ He applied a chemical solution to the needles and wiped the solution off with a rag

²⁷ Patrick Obukowcho, Hair Relaxers: Science, Design, and Application 27 (2018).

and later noticed that the “curly” fibers in the rag were straightened after exposure to the chemical.²⁸

44. Morgan further tested the chemical on a dog with curly hair and eventually on his own hair. The chemical solution successfully straightened curly hair. He turned his formula into a gel-hair product, creating the G.A. Morgan Hair Refining Cream which was marketed in 1913.



Straighten Hair In 15 Minutes
With G. A. MORGAN'S Improved

Hair Refiner Cream

A HAIR STRAIGHTENER THAT HOLDS! One application lasts from 40 to 50 days. Price, 50c and \$1.00. Hair Grower, Hair Lather and Pressing Gloss, 25c. Hair Oil, 25c per bottle. Hair Refining Cream, 50c and \$1.00. Black Hair Stain, 50c. Hair Pressing Cap, 50c. Hair Refining Soap, 25c.

SEND MONEY ORDER OR STAMPS. No C. O. D.

"I have tried them all, but there's nothing that does the work quite so well as G. A. Morgan's Hair Refining Cream for straightening the hair," says Duke Ellington, the Jazz King.

The G. A. Morgan Hair Refining Company
5204 HARLEM AVE., CLEVELAND, OHIO
Established 1909

(This Advertisement Is Worth 25c On Each Dollar Purchase)

²⁸ Mary N. Oluonye, Garrett Augustus Morgan: Businessman, Inventor, Good Citizen 28 (2008).

“IMPROVE YOUR APPEARANCE”

WAR DECLARED ON BAD HAIR!

WE GUARANTEE THAT YOU CAN TREAT YOUR OWN HAIR
using time, money and worry and getting better results by using
THE G. A. MORGAN METHOD.

THE ONLY COMPLETE LINE IN THE WORLD, FOR MEN, WOMEN AND CHILDREN

W O M E N Our treatment will grow your hair and impart to it a beautiful, soft, wavy appearance, no matter how bad it looks now.
\$ 5 . 0 0 will bring you a complete outfit, complete prepared, including G. A. Morgan's Hair Refiner Soap, Hair Growing Cream, Italian Hair Oil, etc. Heavy Head Hair Treatment Cream, \$1.00.

M E N You can positively see into your hair in three months with our famous Hair Refiner Cream.
\$ 2 . 5 0 will bring a complete outfit, complete prepared, including G. A. Morgan's Hair Refiner Soap, Hair Growing Cream, Italian Hair Oil, etc. Heavy Head Hair Treatment Cream, \$1.00.

“SELF TREATMENT GIVES BEST RESULTS”

AGENTS WANTED TO CANVASS G. A. MORGAN'S HAIR PRODUCTS

HAIR REFINER CREAM	\$1.00
HAIR REFINER SOAP	.25
ITALIAN HAIR OIL	.35
HAIR GROWER	.50
DANDRUFF AND TETTER TREATMENT	.50
HAIR PRESSING NIGHT CAP	1.00
BLEECHENE	.50
BLACK HAIR STAIN	.50
HAIR-LAY FINE POMADE	.25

THE G. A. MORGAN HAIR REFINING COMPANY
 5204 HARLEM AVENUE, CLEVELAND, OHIO

CLIP THIS COUPON IT IS WORTH 25 CENTS

On one complete outfit of our goods for either men or women
 Name _____
 Address _____
 City _____

45. Morgan’s invention paved the way for the alkaline relaxer and later development of additional chemical based permanent hair straightening products in the Black hair care market.²⁹

d. Defendants’ Marketing Efforts

46. In 1971, Dark and Lovely manufactured the first lye relaxer. The formula consisted of sodium hydroxide, water, petroleum jelly, mineral oils, and emulsifiers.³⁰

47. In the 1970s, lye relaxer users and manufacturers noticed that the lye formula stripped proteins from the hair strand, resulting in the hair thinning and breaking.³¹As a result, Johnson and Johnson marketed the first “gentle” hair relaxer in 1981, which used milder chemicals such as potassium hydroxide and lithium hydroxide.³²

²⁹ Patrick Obukowcho, *Hair Relaxers: Science, Design, and Application* 27 (2018).

³⁰ Cicely A. Richard, *This History of Hair Relaxers*, September 29, 2017 <https://classroom.synonym.com/the-history-of-hair-relaxers-12078983.html>.

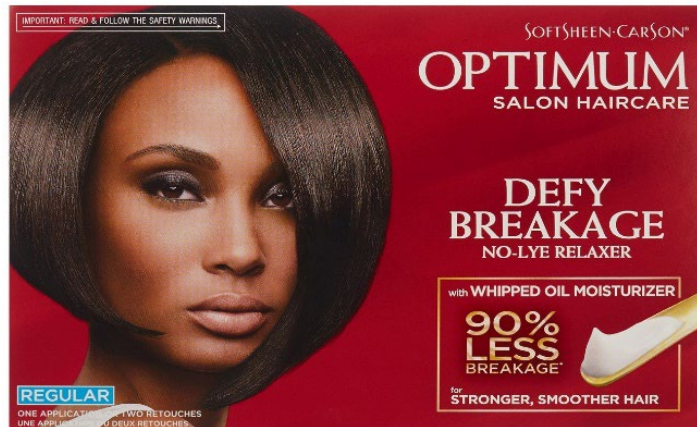
³¹ *Id.*

³² *Id.*

48. Over time, Soft & Beautiful and other chemical relaxer manufacturers developed herbal and botanical hair relaxer formulas.³³

49. Today, Defendants market their hair relaxer products to African American customers across the United States, and the world, reinforcing the same historical Eurocentric standards of beauty. Defendant's marketing scheme relies heavily relying on branding and slogans that reinforce straight hair as the standard.³⁴

50. Defendant L'Oréal depicts a Black woman with straight hair on each of its Dark and Lovely and Optimum brands of relaxer product.



³³ *Id.*

³⁴ *Id.*



e. Chemical Relaxer Use

51. Hair relaxers are classified as creams or lotions which are specifically marketed to Black and Brown women to “tame” their ethnic hair by making it smoother, straighter, and easier to manage on a daily basis.

52. Hair relaxing, or lanthionization, can be performed by a professional cosmetologist in a salon or barbershop, or at home with at-home relaxer kits designed for individual use. These home kits are sold in grocery, drug, and beauty supply stores in urban and rural cities throughout the United States.

53. Relaxers are applied to the base of the hair shaft and left in place for a “cooking” interval, during which the relaxer alters the hair’s texture by purposefully damaging the hair’s natural protein structure. The effect of this protein damage straightens and smooths the hair. After a period of weeks (4 – 8 weeks on average), depending on the hair’s natural growth rate, the treated portion of the hair grows away from the scalp as new growth sprouts from the roots, requiring additional relaxer treatment to smooth the roots. These additional treatments are colloquially

referred to in the community as “re-touches”, resulting in women relaxing their new growth every four to eight weeks on average, usually for decades.

54. Hair relaxers can, and often do, cause burns and lesions in the scalp, facilitating entry of hair relaxer constituents into the body. The main ingredient of “lye” relaxers is sodium hydroxide; no-lye relaxers contain calcium hydroxide and guanidine carbonate, and “thio” relaxers contain thioglycolic acid salts. No-lye relaxers are advertised to cause fewer scalp lesions and burns than lye relaxers, but there is little evidence to support this claim.

55. In some studies, up to 90% of black and brown women have used hair relaxants and straighteners, which is more commonplace for these women than for any other race. Hair products such as relaxers contain hormonally active and carcinogenic compounds, such as phthalates, known to cause endocrine disruption, which are not required to be listed separately as ingredients and are often broadly lumped into the “fragrance” or “perfume” categories. Relaxer habits usually begin in formative childhood years, and adolescence is likely a period of enhanced susceptibility to debilitating conditions resulting from exposure to these chemicals.³⁵

56. In the 1990s, the first relaxer product for young Black girls, Just for Me™, hit the market with a catchy advertising jingle that captured consumer attention.³⁶ It soon became one of the most popular straightening treatments, touting a no-lye formula designed to be gentler for children’s sensitive scalps.

³⁵ Patrick Obukowcho, *Hair Relaxers: Science, Design, and Application* 27 (2018).

³⁶ Dana Oliver, *The ‘90s Just For Me Hair Relaxer Commercial Song Is Stuck In Our Heads*, HuffPost, Feb., 1, 2014. https://www.huffpost.com/entry/just-for-me-hair-relaxer-commercial-song_n_4689981

57. Once relaxer use begins in childhood, it usually becomes a lifetime habit. The frequency of scalp burns with relaxer application can increase the risk of permanent and debilitating diseases associated with long-term exposure to endocrine-disrupting chemicals.

58. The reasons for Black women's use and dependence upon hair straightening products are associated with various factors, including (1) slavery and internalization of acceptable beauty norms, (2) media and advertisements, (3) assimilation and economic security, (4) ease of hair maintenance, and (5) culture.³⁷

59. In a culture where Black women feel reduced to a lower standard of beauty, these factors impact women of color's decisions to begin and continue using products to alter the natural state of their hair, many times as a protective mechanism against racial discrimination. In the Dove CROWN Study for girls (2021) conducted by JOY Collective, the following statistics were discovered³⁸:

- a. 100% of Black elementary school girls in majority-white schools who report experiencing hair discrimination state they experience the discrimination by the age of ten (10).

³⁷ Chanel Donaldson, *Hair Alteration Practices Amongst Black Women and the Assumption of Self-Hatred*, Applied Psychology Opus, https://wp.nyu.edu/steinhardt-appsych_opus/hair-alteration-practices-amongst-black-women-and-the-assumption-of-self-hatred/

³⁸ The CROWN Act was created in 2019 by Dove and the CROWN Coalition, in partnership with then State Senator Holly J. Mitchell of California, to ensure protection against discrimination based on race-based hairstyles by extending statutory protection to hair texture and protective styles such as braids, locks, twists, and knots in the workplace and public schools. <https://www.thecrownact.com/>

- b. 86% of Black teens who experience discrimination state they have experienced discrimination based on their hair by the age of twelve (12).
- c. 66% of Black girls in majority-white schools report experiencing hair discrimination compared to 45% of Black girls in all school environments.
- d. 53% of Black mothers, whose daughters have experienced hair discrimination, say their daughters experienced the discrimination as early as five (5) years old.
- e. 47% of Black mothers report having experienced discrimination related to their hair.
- f. Trauma from these experiences cause girls to miss days from school; teenage Black girls are missing a week of school per year due to hair dissatisfaction.
- g. While 90% of Black girls believe their hair is beautiful, the microaggressions and discrimination she endures has an impact on how she sees herself.
- h. Black women are 1.5 times more likely to be sent home from the workplace because of their hair.
- i. Black women are 89% more likely than white women to agree with this statement, “I have to change my hair from its natural state to fit in at the office.”

60. The CROWN Act of 2021 is a legislative bill introduced in both houses of Congress to address discrimination against protective hair styles worn predominantly by women of color. While the bill has not yet passed fully on a federal level, eighteen states have signed a version of the bill into state law. Unless and until the CROWN Act makes hair discrimination illegal in every state, teenagers and women of color continue to face discriminatory practices related to their hair

choices, with relaxing and straightening their hair being a defensive, yet dangerous and toxic option.

B. Regulatory Framework

61. The law does not require cosmetic products and ingredients, other than color additives, to have FDA approval before they go to market. But there are laws and regulations that apply to cosmetics placed into the market. The two most important laws pertaining to cosmetics marketed in the United States is the Federal Food Drug and Cosmetic Act (“FD&C Act”) and the Fair Packaging and Labeling Act (“FPLA”).

62. The FD&C Act expressly prohibits the marketing of “adulterated” or “misbranded” cosmetics in interstate commerce.

63. Adulteration refers to a violation involving product composition whether it results from ingredients, contaminants, processing, packaging shipping or handling.

64. Under the FD&C Act a cosmetic is adulterated if: 1) it bears or contains any poisonous or deleterious substance causing injury to the product user and 2) if its container is composed in whole or in part, of any poisonous or deleterious substance which may render the contents injurious to health.

65. Misbranding refers to violations involving improperly labeled or deceptively packaged products.

66. Under the FD&C Act, a cosmetic is misbranded if 1) labeling is false or misleading, 2) the label does not include all required information, 3) required information is not prominent and

conspicuous, 4) the packaging and labeling is in violation of an applicable regulation issued pursuant to section 3 and 4 of the Poison Prevention Packaging Act of 1970.³⁹

67. Under U.S. law, cosmetic manufacturers are not required to submit their safety data to the FDA. However, it is against the law to put an ingredient in a cosmetic that makes the cosmetic harmful when used as intended.⁴⁰ An example is methylene chloride because it causes cancer in animals and is likely to be harmful to human health, too.⁴¹

68. On May 19, 2022, the FDA issued a rule to amend its food additive regulations to no longer provide for most previously-authorized phthalates to be used as food additives because these uses have been abandoned by industry.⁴² The FDA revoked authorizations for the food contact use of 23 phthalates and two other substances used as plasticizers, adhesives, defoaming agents, lubricants, resins, and slimicides.⁴³

69. Companies and/or individuals who manufacture or market cosmetics have a legal responsibility and duty to ensure the safety of their own products. Neither the law nor FDA regulations require specific tests to demonstrate the safety of individual products or ingredients, and the law also does not require cosmetic companies to share their safety information with the FDA.

³⁹ Food and Drug Administration Cosmetic Act § 602 (1938).

⁴⁰ *Prohibited & Restricted Ingredients in Cosmetics*, U.S. Food and Drug Administration, <https://www.fda.gov/cosmetics/cosmetics-laws-regulations/prohibited-restricted-ingredients-cosmetics>

⁴¹ 21 Code of Federal Regulations § 700.19.

⁴² § 87 FR 31080

⁴³ *Phthalates in Food Packages and Food Contact Applications*, U.S. Food and Drug Administration, <https://www.fda.gov/food/food-ingredients-packaging/phthalates-food-packaging-and-food-contact-applications>

70. The FDA has consistently advised manufacturers to use whatever testing is necessary to ensure the safety of products and ingredients, which may be substantiated through (a) reliance on already available toxicological test data on individual ingredients and on product formulations that are similar in composition to the particular cosmetic and (b) performance of any additional toxicological and other tests that are appropriate in light of such existing data and information.⁴⁴

71. Except for color additives and ingredients prohibited or restricted by regulation, a manufacturer may use any ingredient in the formulation of a cosmetic, provided that (1) the ingredient and the finished cosmetic are safe under labeled or customary conditions of use, (2) the product is properly labeled, and (3) the use of the ingredient does not otherwise cause the cosmetic to be adulterated or misbranded under the laws the FDA enforces.⁴⁵

72. With respect to whether the product is properly labeled, Title 21 of the Code of Federal Regulations defines the establishment of warning statements related to cosmetic products. Section 740.1 states that “[t]he label of a cosmetic product *shall* bear a warning statement whenever necessary or appropriate to prevent a health hazard that *may* be associated with the product.” (emphasis added). This warning directive directly correlates with the broad authority of manufacturers over their own cosmetic products to ensure that products are safe under labeled or customary conditions of use, properly labeled, and not adulterated or misbranded under FDA laws.

⁴⁴ *FDA Authority Over Cosmetics: How Cosmetics Are Not FDA-Approved, but Are FDA-Regulated*, U.S. Food and Drug Administration, Mar., 3, 2005, <https://www.fda.gov/cosmetics/cosmetics-laws-regulations/fda-authority-over-cosmetics-how-cosmetics-are-not-fda-approved-are-fda-regulated>

⁴⁵ *Id.*

73. In short, under the current regulatory framework in the United States, it is incumbent upon the manufacturers of cosmetic products, and them alone, to assess the safety and efficacy of their products, and to warn consumers anytime a health hazard may be associated with their products. Here, a wealth of scientific information is available regarding long-term use of hair relaxers, straighteners and hair dyes as containing certain endocrine-disrupting chemicals, which should have alerted manufacturers of these products to the specific and dangerous harms associated with their products when used as intended, particularly in women of color.

C. Endocrine-Disrupting Chemicals

74. The endocrine system is indispensable for life and influences nearly every cell, organ, and processes within the body.⁴⁶ The endocrine system regulates all biological processes in the body from conception through adulthood, including the development of the brain and nervous system, the growth and function of the reproductive system, as well as the metabolism and blood sugar levels.⁴⁷

- a. The endocrine system is a tightly regulated system made up of glands that produce and release precise amounts of hormones that bind to receptors located on specific target cells throughout the body.⁴⁸
- b. Hormones, such as estrogen, testosterone, progesterone, and androgen, are chemical signals that control or regulate critical biological processes.⁴⁹

⁴⁶ *Endocrine System: The Endocrine System Includes The Thyroid, Adrenals, and the Pituitary Gland*, Science Direct, <https://www.sciencedirect.com/topics/psychology/endocrine-system>

⁴⁷ *Endocrine Disruption*, United States Environmental Protection Agency, Mar., 7, 2022, <https://www.epa.gov/endocrine-disruption/what-endocrine-system>

⁴⁸ *Id.*

⁴⁹ *Id.*

- c. When a hormone binds to a target cell's receptor, the receptor carries out the hormone's instructions, the stimulus, and either switches on or switches off specific biological processes in cells, tissues, and organs.⁵⁰
- d. The precise functioning of the endocrine system is vital to maintain hormonal homeostasis, the body's natural hormonal production and degradation. A slight variation in hormone levels can lead to significant adverse-health effects, including reproductive impairment and infertility, cancer, cognitive deficits, immune disorders, and metabolic syndrome.⁵¹
- e. Endocrine disrupting chemicals ("EDCs") are chemicals, or chemical mixtures, that interfere with the normal activity of the endocrine system.
- f. EDCs can act directly on hormone receptors as mimics or antagonists, or on proteins that control hormone delivery.⁵²
- g. EDCs disrupt the endocrine system and interfere with the body's hormonal homeostasis in various ways.
- h. EDCs can cause the body to operate as if there were a proliferation of a hormone and thus over-respond to the stimulus or respond when it was not supposed to by mimicking a natural hormone.

⁵⁰ Id.

⁵¹ *Id.*; Michele La Merrill, et al., *Consensus on the Key Characteristics of Endocrine-Disrupting Chemicals as a Basis for Hazard Identification*, *Nature Reviews Endocrinol*, Nov., 12, 2019, <https://www.nature.com/articles/s41574-019-0273-8>

⁵² Evanthia Diamanti-Kandarakis, et al., *Endocrine-Disrupting Chemicals: An Endocrine Society Scientific Statement*, *Endocrine Reviews*, June 30, 2009, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2726844/>

- i. EDCs can increase or decrease the levels of the body's hormones by affecting the production, degradation, and storage of hormones.
- j. EDCs can block the hormone's stimulus through inducing epigenetic changes, modifications to DNA that regulate whether genes are turned on or off or altering the structure of target cells' receptors.⁵³
- k. EDCs are known to cause to numerous adverse human health outcomes including endometriosis, impaired sperm quality, abnormalities in reproductive organs, various cancers, altered nervous system and immune function, respiratory problems, metabolic issues, diabetes, obesity, cardiovascular problems, growth, neurological and learning disabilities.⁵⁴
- l. EDCs that mimic the effects of estrogen in the body may contribute to disease risk because exposure to estrogen, endogenously and exogenously, is associated with endometrial (uterine) cancer, and a woman's lifetime risk of developing the disease increases with greater duration and cumulative exposure.
- m. Natural and synthetic EDCs are present in hair products under the guise of "fragrance" and "perfumes", and thus enter the body when these products are

⁵³ Luis Daniel Martínez-Razo, et al., *The impact of Di-(2-ethylhexyl) Phthalate and Mono(2-ethylhexyl) Phthalate in placental development, function, and pathophysiology*, Environment International, January 2021, <https://www.sciencedirect.com/science/article/pii/S0160412020321838?via%3Dihub>

⁵⁴ *Endocrine Disrupting Chemicals (EDCs)*, Endocrine Society, Jan., 24, 2022, <https://www.endocrine.org/patient-engagement/endocrine-library/edcs#:~:text=EDCs%20can%20disrupt%20many%20different,%2C%20certain%20cancers%2C%20respiratory%20problems%2C>

exogenously applied to the hair and scalp. Studies exploring this issue have thus far classified EDCs as estrogens, phthalates, and parabens.

- n. Indeed, numerous studies spanning more than two decades have demonstrated the adverse impact EDCs including Di-2-ethylhexylphthalate have on the male and female reproductive systems such as inducing endometriosis, abnormal reproductive tract formation, decreased sperm counts and viability, pregnancy loss, and abnormal puberty onset.⁵⁵

a. Phthalates

75. Phthalates are used in a variety of cosmetics and personal care products. Phthalates are chemical compounds developed in the last century that are used to make plastics more durable. These colorless, odorless, oily liquids also referred to as “plasticizers” based on their most common uses.

76. Phthalates also function as solvents and stabilizers in perfumes and other fragrance preparations. Cosmetics that may contain phthalates include nail polishes, hair sprays, aftershave lotions, cleansers, and shampoos.

77. At all relevant times herein, phthalates were used in Defendants’ products.

78. Phthalates are chemicals used to improve the stability and retention of fragrances and to help topical products stick to and penetrate skin and hair.⁵⁶

⁵⁵ Hee-Su Kim, et al., *Hershberger Assays for Di-2-ethylhexyl Phthalate and Its Substitute Candidates*, Dev Reproduction, Mar., 22, 2018, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5915764/>.

⁵⁶ Olivia Koski & Sheila Hu, *Fighting Phthalates*, National Resources Defense Council, April 20, 2022, <https://www.nrdc.org/stories/fighting-phthalates>

79. Phthalates are known EDCs which interfere with natural hormone production and degradation and are detrimental to human health.⁵⁷

80. Phthalates are commonly used by cosmetics and hair care product manufacturers to make fragrances and colors last longer, and to make hair more flexible after product is applied, among other uses.

81. Phthalates can be found in most products that have contact with plastics during producing, packaging, or delivering. Despite the short half-lives in tissues, chronic exposure to phthalates will adversely influence the endocrine system and functioning of multiple organs, which has negative long-term impacts on the success of pregnancy, child growth and development, and reproductive systems in both young children and adolescents. Several countries have established restrictions and regulations on some types of phthalates.⁵⁸

Phthalates are a series of chemical substances, which are mainly used as plasticizers added to polyvinyl chloride (“PVC”) plastics for softening effects. Phthalates can potentially disrupt the endocrine system.⁵⁹

82. Defendants’ products referenced herein contain phthalates, including Di-2-ethylhexylphthalate.

83. Under the authority of the Fair Packaging and Labeling Act (“FPLA”), the FDA requires an ingredient declaration on cosmetic products sold at the retail level to consumers.

⁵⁷ Yufei Wang & Haifeng Qian, *Phthalates and Their Impacts on Human Health*, Healthcare (Basel) 9, 603, May 9, 2021, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8157593/>

⁵⁸ *Id.*

⁵⁹ *Id.*

84. However, the regulations do not require the listing of the individual fragrance or flavor, or their specific ingredients meaning phthalates evade listing when combined with a fragrance. As a result, a consumers, including Plaintiff was not able to determine from the ingredient declaration on the label if phthalates were present in a fragrance used in the herein referenced hair products used by the Plaintiff and placed into the stream of commerce by Defendants.

85. Since 1999, the Centers for Disease Control (“CDC”) have found phthalates in individuals studied for chemical exposure.⁶⁰ Neither IARC nor NTP has evaluated DEHP with respect to human carcinogenicity.

b. Di-2-ethylhexylphthalate

86. Di-2-ethylhexylphthalate⁶¹ (“DEHP”) is a highly toxic manufactured chemical⁶² that is not found naturally in the environment.⁶³

87. DEHP belongs to the family of chemicals called phthalates.⁶⁴

⁶⁰ *Biomarker Groups*, National Report on Human Exposure to Environmental Chemicals, Center for Disease Control, https://www.cdc.gov/exposurereport/pdf/Biomarker_Groups_Infographic-508.pdf

⁶¹ Also known as Bis(2-ethylhexyl) phthalate.

⁶² Sai Rowdhwal & Jiayang Chen, *Toxic Effects of Di-2-ethylhexyl Phthalate: An Overview*, Biomed Research International, Feb., 22, 2018 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5842715/#:~:text=DEHP%20is%20noncovalently%20bound%20to,and%20plastic%20waste%20disposal%20sites>.

⁶³ *Toxicological Profile for Di(2-Ethylhexyl) Phthalate (DEHP)*, U.S. Dept of Health and Human Services, January 2022, <https://www.atsdr.cdc.gov/ToxProfiles/tp9.pdf> (DEHP is listed as hazardous pollutants under the Clean Air Act.; DEHP is on the Proposition 65 list because it can cause cancer and birth defects or other reproductive harm).

⁶⁴ *Di(2-ethylhexyl) phthalate (DEHP)*, Proposition 65, California. Gov, <https://www.p65warnings.ca.gov/fact-sheets/di2-ethylhexylphthalate-dehp>

88. DEHP was first used in 1949 in United States and has been the most abundantly used phthalate derivative in the Twentieth century.⁶⁵

89. DEHP does not covalently bind to its parent material. Non-covalent bonds are weak and, as a result, DEHP readily leaches into the environment increasing human exposure.⁶⁶

90. Humans are exposed to DEHP through ingestion, inhalation, and dermal exposure for their lifetimes, including intrauterine life.⁶⁷

91. The Agency for Toxic Substances and Disease Registry (“ATSDR”) estimates that the range of daily human exposure to DEHP is 3–30 µg/kg/day.⁶⁸

92. The no-observed-adverse-effect level for DEHP to humans is 4.8 mg/kg bodyweight/day and the tolerate daily intake (TDI) is 48 µg/kg bodyweight.⁶⁹

⁶⁵ Pinar Erkekoglu & Belma Kocer-Gumusel, *Environmental Effects of Endocrine-Disrupting Chemicals: A Special Focus on Phthalates and Bisphenol A*, Environmental Health Risk, June 16, 2016, <https://www.intechopen.com/chapters/50234>

⁶⁶ Katelyn H. Wong & Timur Durrani, *Exposures to Endocrine Disrupting Chemicals in Consumer Products – A Guide for Pediatricians*, Current Problems in Pediatric and Adolescent Health Care, Science Direct, May 2017, <https://www.sciencedirect.com/science/article/pii/S1538544217300822?via%3Dihub>

⁶⁷ Schmidt, Juliane-Susanne, et al., *Effects of Di(2-ethylhexyl) Phthalate (DEHP) on Female Fertility and Adipogenesis in C3H/N Mice*, Environmental Health Perspective, May 15, 2012, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3440070/>

⁶⁸ Hannon, Patrick et. al., *Daily Exposure to Di(2-ethylhexyl) Phthalate Alters Estous Cyclicity and Accelerates Primordial Follicle Recruitment Potentially Via Dysregulation of the Phosphatidylinositol 3-Kinase Signaling Pathway in Adult Mice*, Biology of Reproduction Volume 90, Issue 6, June 2014, 136, 1–11 <https://academic.oup.com/biolreprod/article/90/6/136,%201-11/2514356>

⁶⁹ Yufei Wang & Haifeng Qian, *Phthalates and Their Impacts on Human Health*, Healthcare (Basel) 9(5):603, May 18, 2021, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8157593/>

Endpoint	Cancer (NSRL)		Developmental and Reproductive Toxicity (MADL)	
	Oral	Inhalation	Oral	Inhalation
DEHP	310 µg/day	N.C.	410 µg/day	N.C.

Source: OEHHA's safe harbor levels for TDCIPP, DBP, DEHP, benzene, and formaldehyde. N.C. = not calculated by OEHHA as of August 2020.⁷⁰

93. When DEHP enters in the human body, it breaks down into specific metabolites.

The toxicity of DEHP is mainly attributed to its unique metabolites which include the primary metabolite, mono-(2-ethylhexyl)phthalate (MEHP), and secondary metabolites, mono-(2-ethyl-5-hydroxyhexyl)phthalate (MEHHP), and mono-(2-ethyl-5-oxohexyl)phthalate (MEOHP).⁷¹

94. DEHP and its metabolites are known to cause significant adverse-health effects including but not limited to: endometriosis, developmental abnormalities, reproductive dysfunction and infertility,⁷² various cancers, and metabolic syndrome within the human population and their future children.⁷³

⁷⁰ Aalekhya Reddam & David Volz, *Inhalation of two Prop 65-listed Chemicals Within Vehicles May Be Associated with Increased Cancer Risk*, Environment International Volume 149, April 2021, <https://www.sciencedirect.com/science/article/pii/S016041202100026X>

⁷¹ Saab, Yolande, et. al., *Risk Assessment of Phthalates and Their Metabolites in Hospitalized Patients: A Focus on Di- and Mono-(2-ethylhexyl) Phthalates Exposure from Intravenous Plastic Bags*. Toxics, 10(7), 357, <https://pubmed.ncbi.nlm.nih.gov/35878262/>; Ishtaf Sheikh, et. at., *Endocrine disruption: In silico perspectives of interactions of di-(2-ethylhexyl)phthalate and its five major metabolites with progesterone receptor*. BMC Structural Biology Volume 16, Suppl 1, 16, Sept., 30, 2016, <https://bmcstructbiol.biomedcentral.com/articles/10.1186/s12900-016-0066-4> (Other secondary metabolites include mono(2-ethyl-5-carboxypentyl)phthalate (5-cx-MEPP) and mono[2-(carboxymethyl)hexyl]phthalate (2-cx-MMHP)).

⁷² Richardson, Kadeem et. al., *Di(2-ethylhexyl) Phthalate (DEHP) Alters Proliferation and Uterine Gland Numbers in the Uterine of Adult Exposed Mice*, Reproductive Toxicology, 77, 70-79, <https://pubmed.ncbi.nlm.nih.gov/29458081/>

⁷³ Yufei Wang & Haifeng Qian, *Phthalates and Their Impacts on Human Health*, Healthcare (Basel) 9, 603, May 9, 2021, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8157593/>

95. Most of the available studies on the health effects of DEHP in laboratory animals used oral administration, with a few inhalation studies and only two dermal exposure studies identified.⁷⁴

96. The results of the selected animal studies, along with limited human data, suggest potential associations between DEHP exposure and the following health outcomes:

- a) **Reproductive effects.** Epidemiological studies suggest a potential association between DEHP exposure and decreased serum testosterone and altered sperm parameters in males. Available studies on fertility effects in humans do not indicate an association between DEHP exposure and infertility. In animals, the available oral and inhalation studies provide evidence that the male reproductive system, particularly the testes, is susceptible to DEHP toxicity. Evidence from animal studies indicates decreased male and female fertility at high oral doses.
- b) **Developmental effects.** Epidemiological studies suggest a potential association between reduced AGD and testicular descent in male infants and prenatal DEHP exposure. In addition, human epidemiological studies provide mixed results for potential relationships between exposure to DEHP and preterm birth, early puberty, and delayed mental and psychomotor development in children. Studies in animals indicate that altered glucose homeostasis and the development of the reproductive system following early life exposure is a particularly sensitive target of DEHP toxicity.

97. The global consumption of DEHP was estimated at 3.07 million tons (Global demand for plasticizers continues to rise). The estimated global market of phthalates in 2020 is expected to reach 10 billion USD and would still be widely used in plasticizers.⁷⁵

98. Human epidemiological studies have shown a significant association between phthalates exposures and adverse reproductive outcomes in both women and men.⁷⁶

⁷⁴ *Chapter 2: Health Effects*, Toxicological profile for Di(2-ethylhexyl) phthalate (DEHP) (2001), <https://www.atsdr.cdc.gov/ToxProfiles/tp9-c2.pdf>

⁷⁵ *Id.*

⁷⁶ *Id.*

99. Evidence found that DEHP was significantly related to insulin resistance and higher systolic blood pressure and the reproduction system problems, including earlier menopause, low birth weight, pregnancy loss, and preterm birth.⁷⁷

100. When it comes to the impacts on children, epidemiological studies about phthalates toxicity focused on pregnancy outcomes, genital development, semen quality, precocious puberty, thyroid function, respiratory symptoms, and neurodevelopment.⁷⁸

101. Since the turn of the century, restrictions on phthalates have been proposed in many Asian and western countries. In 2008, the US Congress announced the Consumer Protection Safety Act (CPSA) that permanently banned the products, especially children's toys and childcare articles, containing DEHP, DBP, and BBP at levels >0.1% by weight.⁷⁹

E. Injuries Associated with Exposure to Endocrine Disrupting Chemicals

a. Uterine Cancer

102. Uterine cancer is associated with phthalate metabolites found in hair care products.

103. Uterine cancer⁸⁰ is among the more common (the fourth most common) cancers in women in developed countries,⁸¹ accounting for about 3% of all new cancer cases.⁸²

⁷⁷ N.M. Grindler, et al., *Exposure to Phthalate, an Endocrine Disrupting Chemical, Alters the First Trimester Placental Methylome and Transcriptome in Women*, Scientific Reports Volume 8, April 17, 2018, <https://doi.org/10.1038/s41598-018-24505-w>

⁷⁸ *Id.*

⁷⁹ Consumer Product Safety Improvement Act of 2008, H.R. 4040, 110th Cong. (2008), <https://www.congress.gov/110/plaws/publ314/PLAW-110publ314.pdf>

⁸⁰ Otherwise known as endometrial carcinoma.

⁸¹ Unaiza Faizan & Vijayadershan Muppidi, *Uterine Cancer*, In: StatPearls, National Library of Medicine, Jan 2022, <https://www.ncbi.nlm.nih.gov/books/NBK562313/>

⁸² *Cancer Stat Facts: Uterine Cancer*, National Cancer Institute, <https://seer.cancer.gov/statfacts/html/corp.html>

104. Every year around 65,000 females develop uterine cancer in the USA alone, out of which more than 90% is of endometrial origin. It is commonly diagnosed in the seventh decade, with the mean age being 61 years.⁸³

105. The incidence in Black women is twice that of White women.⁸⁴ In addition, Black women with uterine cancer carry a poorer prognosis as compared to White women.⁸⁵

106. Though death rates from other cancers in women have declined in recent years, death rates for uterine cancer have increased by more than 100% in the last 20 years.⁸⁶

107. Indeed, new cases of uterine cancer have increased by 0.6 percent per year from 2010 to 2019, and death rates have risen an average of 1.7 percent per year during the same time frame.⁸⁷

108. A groundbreaking study recently found that women who use chemical hair straightening or relaxing products have a higher risk contracting of uterine cancer.⁸⁸

⁸³ *Id.*

⁸⁴ *Id.*

⁸⁵ Joel Sorosky, *Endometrial Cancer*, *Obstetrics & Gynecology* Volume 120, 383-97, Aug. 2012, <https://pubmed.ncbi.nlm.nih.gov/22825101/>

⁸⁶ Linda Duska, et al., *Treatment of Older Women With Endometrial Cancer: Improving Outcomes With Personalized Care*, *American Society Clinical Oncology Educational Book*, 35:164-74, 2016, <https://pubmed.ncbi.nlm.nih.gov/27249697/>

⁸⁷ Jack J. Lee, *Rising Endometrial Cancer Rate Spur New Approaches to Prevention*, National Cancer Institute: Division of Cancer Prevention, June 28, 2022, <https://prevention.cancer.gov/news-and-events/blog/rising-endometrial-cancer>

⁸⁸ Che-Jung Chang, et al., *Use of Straighteners and Other Hair Products and Incident Uterine Cancer*, *Journal of the National Cancer Institute*, Oct., 17, 2022, <https://pubmed.ncbi.nlm.nih.gov/36245087/>

109. The study found that an estimated 1.64% of women who never used chemical hair straighteners or relaxers would go on to develop uterine cancer by the age of 70; but for frequent users, that risk more than doubles, increasing to 4.05%.⁸⁹

110. These risks are more substantial among Black women, who make up the overwhelming majority of hair straightening and hair relaxing products, including as Defendants' products.

F. Ms. Reeves' Use of Hair Relaxing Products

111. Ms. Reeves was first exposed to EDCs and/or phthalate-based products around 1982. Mrs. Reeves was 13 years old when she began using Defendants' Products.

112. Ms. Reeves used Defendants' Products by applying this to her scalp or by having a professional at a hair salon apply Defendants' Products exactly as instructed by Defendants.

113. Ms. Reeves continued using Defendants' Products from around 1982 until sometime in late 2019.

114. Ms. Reeves would keep the Product on her hair for the time allotted in the instructions.

115. There was never any indication, on the Products packaging or otherwise, that this normal use could and would cause her to develop uterine and/or endometrial cancer.

116. Ms. Reeves was diagnosed with endometrial cancer in June 2021 at the age of 51 in Ohio while a resident of Ohio.

117. Ms. Reeves underwent a full hysterectomy after her diagnoses in August 2021 in Kettering, Ohio.

⁸⁹ *Id.*

118. As a result of Defendants' acts and/or omissions, Ms. Reeves suffered extreme pain and suffering, and extreme emotional distress.

**COUNT ONE-STRICT LIABILITY
(FAILURE TO WARN)**

119. Plaintiff repeats and realleges the allegations in Paragraphs 1-118 above, as if fully set forth herein.

120. At all pertinent times, the Defendants were manufacturing, marketing, testing, promoting, selling and/or distributing the Products in the regular course of business.

121. At all pertinent times, Plaintiff used the Products on her scalp area, which is a reasonably foreseeable use.

122. At all pertinent times, Defendants in this action knew or should have known that the use phthalates and other EDC's in hair products significantly increases the risk of cancer, including, but not limited to, uterine cancer, based upon scientific knowledge dating back for decades.

123. At all pertinent times, including the time of sale and consumption, the Products, when put to the aforementioned reasonably foreseeable use, were in an unreasonably dangerous and defective condition because they failed to contain adequate and proper warnings and/or instructions regarding the increased risk of cancer, including, but not limited to, uterine cancer, associated with the use of the Defendant's hair products. Defendants themselves failed to properly and adequately warn and instruct Plaintiff as to the risks and benefits of the Products given her need for this information.

124. Had Plaintiff received a warning that the use of the Products would significantly increase her risk of developing endometrial uterine cancer, she would not have used them. As a proximate result of Defendants' design, manufacture, marketing, sale, and distribution of the Products, Plaintiff was injured catastrophically, and was caused severe pain, suffering, infertility, disability, impairment, loss of enjoyment of life, loss of care, comfort, and economic damages.

125. The development of endometrial uterine cancer by Plaintiff was the direct and proximate result of the unreasonably dangerous and defective condition of the Products at the time of sale and consumption, including their lack of warnings; Plaintiff suffered injuries and damages including, but not limited to, physical and mental pain and suffering, infertility and medical expenses.

126. Defendants' products were defective because they failed to contain warnings and/or instructions and breached express warranties and/or failed to conform to express factual representations upon which Plaintiff justifiably relied in electing to use the Products. The defect or defects made the Products unreasonably dangerous to persons, such as Plaintiff, who could reasonably be expected to use and rely upon such products. As a result, the defect or defects were a producing cause of Plaintiff's injuries and damages.

127. Defendants' products failed to contain, and continue to this day not to contain, adequate warnings and/or instructions regarding the increased risk of cancer, including, but not limited to, uterine cancer, with the use of their products by women. Defendants continue to market, advertise, and expressly represent to the general public that it is safe for women to use their product. These Defendants continue with these marketing and advertising campaigns despite

having scientific knowledge that dates back to 2011 that their products increased the risk of uterine cancer in women.

128. Plaintiff sustained the following damages as a foreseeable, direct, and proximate result of Defendants' acts and/or omissions:

- a. Economic losses including medical care and lost earnings; and
- b. Noneconomic losses including physical and mental pain and suffering, infertility, emotional distress, inconvenience, loss of enjoyment and impairment of quality of life, past and future.

**COUNT TWO – STRICT LIABILITY
(DESIGN AND/OR MANUFACTURING DEFECT)**

129. Plaintiff repeats and realleges the allegations in Paragraphs 1-118 above, as if fully set forth herein.

130. Defendants engaged in the design, development, manufacture, marketing, sale, and distribution of the Products in a defective and unreasonably dangerous condition to consumers, including Plaintiff.

131. Defendants caused the Products to enter the stream of commerce and to be sold through various retailers, where Plaintiff purchased the Products.

132. The Products were expected to, and did, reach consumers, including Plaintiff, without change in the condition in which it was manufactured and sold by Defendants and/or otherwise released into the stream of commerce.

133. Plaintiff used the Products in a manner normally intended, recommended, promoted, and marketed by Defendants.

134. Products failed to perform safely when used by Plaintiff in a reasonably foreseeable manner, specifically increasing her of developing endometrial uterine cancer.

135. The propensity of phthalates and other endocrine receptive chemicals to trigger cancerous growths in premenopausal women, including, but not limited to, the uterus, thereby substantially increasing the risk of cancer, including, but not limited to, uterine cancer, renders the Products unreasonably dangerous when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

136. Importantly, the Products are an inessential cosmetic product that do not treat or cure any serious disease. Further, safer alternatives, including fragrance free products, have been readily available for decades.

137. Defendants have known, or should have known, that the Products are unreasonably dangerous but have continued to design, manufacture, sell, distribute, market, promote, and supply the Products so as to maximize sales and profits at the expense of public health and safety in conscious disregard of the foreseeable harm to the consuming public, including Plaintiff.

138. As a direct and proximate result of Defendants' conduct, including actions, omissions, and misrepresentations, Plaintiff sustained the following damages:

- a. Economic losses including medical care and lost earnings; and
- b. Noneconomic losses including physical and mental pain and suffering, infertility, emotional distress, inconvenience, loss of enjoyment and impairment of quality of life, past and future.

**COUNT THREE – STRICT LIABILITY
(DESIGN AND/OR MANUFACTURING DEFECT)**

139. Plaintiff repeats and realleges the allegations in Paragraphs 1-118 above, as if fully set forth herein.

140. At all relevant times. Defendants engaged in the design, development, manufacture, marketing, sale, and distribution of the Products in a defective and unreasonably dangerous condition to consumers, including Plaintiff.

141. Defendants caused the Products to enter the stream of commerce and to be sold through various retailers, where Plaintiff purchased the Products.

142. The Products were expected to, and did, reach consumers, including Plaintiff, without change in the condition in which it was manufactured and sold by Defendants and/or otherwise released into the stream of commerce.

143. Plaintiff used the Products in a manner normally intended, recommended, promoted, and marketed by Defendants.

144. Products failed to perform safely when used by Plaintiff in a reasonably foreseeable manner, specifically increasing her of developing endometrial uterine cancer.

145. The propensity of phthalates and other endocrine receptive chemicals to trigger cancerous growths in premenopausal women, including, but not limited to, the uterus, thereby substantially increasing the risk of cancer, including, but not limited to, uterine cancer, renders the Products unreasonably dangerous when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

146. Importantly, the Products are an inessential cosmetic product that do not treat or cure any serious disease. Further, safer alternatives, including fragrance free products, have been readily available for decades.

147. Defendants knew, or by the exercise of reasonable care should have known, that the Products are unreasonably dangerous but have continued to design, manufacture, sell, distribute, market, promote, and supply the Products to maximize sales and profits at the expense of public health and safety in conscious disregard of the foreseeable harm to the consuming public, including Plaintiff.

148. Defendants owed a duty to all reasonably foreseeable users to design a safe product.

149. Defendants breached their duty by failing to use reasonable care in the design and/or manufacturing of their Products because the Products were unreasonably dangerous in that they increase the risks of cancerous growths in premenopausal women, including, but not limited to, the uterus, thereby substantially increasing the risk of cancer, including, but not limited to, uterine cancer, renders the Products unreasonably dangerous when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

150. Defendants also breached their duty by failing to use reasonable care by failing to use cost-effective, reasonably feasible alternative designs in the design and/or manufacturing of their Products.

151. A reasonable company under the same or similar circumstances would have designed a safer product.

152. As a direct and proximate result of Defendants' conduct, including actions, omissions, and misrepresentations, Plaintiff sustained the following damages:

- a. Economic losses including medical care and lost earnings; and
- b. Noneconomic losses including physical and mental pain and suffering, infertility, emotional distress, inconvenience, loss of enjoyment and impairment of quality of life, past and future.

**COUNT FOUR-PRODUCTS LIABILITY
(NEGLIGENT FAILURE TO WARN)**

153. Plaintiff repeats and realleges the allegations in Paragraphs 1-118 above, as if fully set forth herein.

154. At all relevant times. Defendants engaged in the design, development, manufacture, marketing, sale, and distribution of the Products in a defective and unreasonably dangerous condition to consumers, including Plaintiff.

155. Defendants knew, or by the exercise of reasonable care, should have known use of their Products was dangerous, harmful, and injurious when used by Plaintiff in a reasonably foreseeable manner.

156. Defendants knew, or by the exercise of reasonable care, should have known ordinary consumers such as Plaintiff would not have realized the potential risks and dangers of their Products, and that Products were likely to increase the risks of cancerous growths in premenopausal women, including, but not limited to, the uterus, thereby substantially increasing the risk of cancer, including, but not limited to, uterine cancer, when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

157. Defendants owed a duty to all reasonably foreseeable consumers to disclose the risks associated with the use of their Products.

158. Defendants breached their duty of care by failing to use reasonable care in providing adequate warnings on their Products, including that Products were likely to increase the risks of cancerous growths in premenopausal women, including, but not limited to, the uterus and/or ovaries, thereby substantially increasing the risk of cancer, including, but not limited to, uterine cancer, when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

159. The failure of Defendants to adequately warn about their defective products, and their efforts to misleadingly advertise through conventional avenues, created a danger of injuries described herein that were reasonably foreseeable at the time of design and/or manufacture and distribution.

160. At all relevant times, Defendants could have provided adequate warnings and instructions to prevent the harms and injuries set forth herein, such as providing full and accurate information about the products in advertising.

161. A reasonable company under the same or similar circumstances would have warned and instructed of the dangers.

162. Plaintiff was injured as a direct and proximate result of Defendants' failure to warn and instruct because she would not have used the Products had she received adequate warnings and instructions that the Products could increase the risks of cancerous growths in premenopausal women, including, but not limited to, the uterus, thereby substantially increasing the risk of cancer, including, but not limited to, uterine cancer, when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

163. Defendants' lack of adequate and sufficient warnings and instructions, and their inadequate and misleading advertising, was a substantial contributing factor in causing harm to Plaintiff.

164. As a direct and proximate result of Defendants' conduct, including actions, omissions, and misrepresentations, Plaintiff sustained the following damages:

- a. Economic losses including medical care and lost earnings; and
- b. Noneconomic losses including physical and mental pain and suffering, infertility, emotional distress, inconvenience, loss of enjoyment and impairment of quality of life, past and future.

**COUNT FIVE – NEGLIGENCE
(DESIGN AND/OR MANUFACTURING DEFECT)**

165. Plaintiff repeats and realleges the allegations in Paragraphs 1-118 above, as if fully set forth herein.

166. At all relevant times, Defendants engaged in the design, development, manufacture, marketing, sale, and distribution of the Products in a defective and unreasonably dangerous condition to consumers, including Plaintiff.

167. Defendants caused the Products to enter the stream of commerce and to be sold through various retailers, where Plaintiff purchased the Products.

168. The Products were expected to, and did, reach consumers, including Plaintiff, without change in the condition in which it was manufactured and sold by Defendants and/or otherwise released into the stream of commerce.

169. Plaintiff used the Products in a manner normally intended, recommended, promoted, and marketed by Defendants.

170. Products failed to perform safely when used by Plaintiff in a reasonably foreseeable manner, specifically increasing her of developing endometrial uterine cancer.

171. The propensity of phthalates and other endocrine receptive chemicals to trigger cancerous growths in premenopausal women, including, but not limited to, the uterus, thereby substantially increasing the risk of cancer, including, but not limited to, uterine cancer, renders the Products unreasonably dangerous when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

172. Importantly, the Products are an inessential cosmetic product that do not treat or cure any serious disease. Further, safer alternatives, including fragrance free products, have been readily available for decades.

173. Defendants knew, or by the exercise of reasonable care should have known, that the Products are unreasonably dangerous but have continued to design, manufacture, sell, distribute, market, promote, and supply the Products to maximize sales and profits at the expense of public health and safety in conscious disregard of the foreseeable harm to the consuming public, including Plaintiff.

174. Defendants owed a duty to all reasonably foreseeable users to design a safe product.

175. Defendants breached their duty by failing to use reasonable care in the design and/or manufacturing of their Products because the Products were unreasonably dangerous in that they increase the risks of cancerous growths in premenopausal women, including, but not limited to, the uterus, thereby substantially increasing the risk of cancer, including, but not limited to,

uterine cancer, renders the Products unreasonably dangerous when used in the manner it was intended and to an extent beyond that would be contemplated by the ordinary consumer.

176. Defendants also breached their duty by failing to use reasonable care by failing to use cost-effective, reasonably feasible alternative designs in the design and/or manufacturing of their Products.

177. A reasonable company under the same or similar circumstances would have designed a safer product.

178. As a direct and proximate result of Defendants' conduct, including actions, omissions, and misrepresentations, Plaintiff sustained the following damages:

- a. Economic losses including medical care and lost earnings; and
- b. Noneconomic losses including physical and mental pain and suffering, infertility, emotional distress, inconvenience, loss of enjoyment and impairment of quality of life, past and future.

**COUNT SIX-NEGLIGENCE
(NEGLIGENCE AND/OR GROSS NEGLIGENCE)**

179. Plaintiff repeats and realleges the allegations in Paragraphs 1-118 above, as if fully set forth herein.

180. The Defendants' negligence and extreme carelessness includes, but is not limited to, their marketing, designing, manufacturing, producing, supplying, inspecting, testing, selling and/or distributing the Products in one or more of the following respects:

- a. In failing to warn Plaintiff of the hazards associated with the use of the Products;

b. In failing to properly test their products to determine adequacy and effectiveness or safety measures, if any, prior to releasing the Products for consumer use;

c. In failing to properly test their products to determine the increased risk of uterine cancer during the normal and/or intended use of the Products;

d. In failing to inform ultimate users, such as Plaintiff as to the safe and proper methods of handling and using the Products;

e. In failing to remove the Products from the market when Defendants knew or should have known the Products were defective;

f. In failing to instruct the ultimate users, such as Plaintiff, as to the methods for reducing the type of exposure to the Products which caused increased risk of cancer, including, but not limited to, uterine cancer;

g. In failing to inform the public in general and Plaintiff in particular of the known dangers of using the Products;

h. In failing to advise users how to prevent or reduce exposure that caused increased risk for cancer, including, but not limited to, uterine cancer;

i. In marketing and labeling the Products as safe for all uses despite knowledge to the contrary;

j. In failing to act like a reasonably prudent company under similar circumstances, each and all of these acts and omissions, taken singularly or in combination, were a proximate cause of the injuries and damages sustained by Plaintiff.

181. At all pertinent times, the Defendants knew or should have known that the Products were unreasonably dangerous and defective when put to their reasonably anticipated use.

182. Defendants' acts and/or omissions constitute gross negligence because they constitute a total lack of care and an extreme departure from what a reasonably careful company would do in the same situation to prevent foreseeable harm to Plaintiff.

183. Defendants acted and/or failed to act willfully, and with conscious and reckless disregard for the rights and interests of Plaintiff, and their acts and omissions had a great probability of causing significant harm and in fact resulted in such harm to Plaintiff.

184. Plaintiff was injured as a direct and proximate result of negligence and/or gross negligence as described herein.

185. Defendants' negligence and/or gross negligence were a substantial factor in causing and/or contributing to Plaintiff's harms.

186. Plaintiff sustained the following damages as a foreseeable, direct, and proximate result of Defendants' acts and/or omissions:

- a. Economic losses including medical care and lost earnings; and
- b. Noneconomic losses including physical and mental pain and suffering, infertility, emotional distress, inconvenience, and loss of enjoyment and impairment of quality of life, past and future.

COUNT SEVEN-NEGLIGENCE
(Statutory Products Liability per *R.C. § 2307 et seq.*)⁹⁰

187. Plaintiff repeats and realleges the allegations in Paragraphs 1-118 above, as if fully set forth herein.

188. At all times, Defendants were in the business of manufacturing, distributing, and marketing the Products.

189. Defendants' hair care products were a "product" within the meaning and scope of *R.C. § 2307.71(A)(12)(a)* and Defendants were the entities responsible for the design and formulation of the Products and are each a "manufacturer" as that term is defined in *R.C. § 2307 et seq.*

190. The Products were defective in manufacture or construction pursuant to *R.C. § 2307.74*.

191. The Products were defective in design or formulation pursuant to *R.C. § 2307.75*.

192. The Products were defective due to inadequate warning or instruction pursuant to *R.C. § 2307.76*.

193. The Products were defective because they did not conform to representations pursuant to *R.C. § 2307.77*.

194. Specifically, there was a manufacturing defect in the Products when they left

⁹⁰ Plaintiff's use of the Products predates the 2005 and 2007 amendments to Ohio's Products Liability Act. Ohio's Constitution, Art. II § 28, denies the general assembly the power to pass retroactive laws. This extends to a prohibition on abrogating Plaintiff's common-law remedies for conduct in which Defendants engaged prior to the enactment of statute's current version. Plaintiff expressly reserves the right to seek relief and remedies based on her common-law rights as asserting in other counts within the complaint.

Defendants' possession and control. The Products were defective because they contained endocrine-disrupting chemicals. The presence of these chemicals were a condition of the Products that rendered them unreasonably dangerous.

195. The Products were defective because they contained endocrine-disrupting chemicals, and Defendants failed to give adequate warnings of the products' dangers that were known or by the application of reasonably developed human skill and foresight should have been known.

196. Defendants also failed to give adequate warnings and instructions to avoid such dangers. Defendants' failure to provide such warnings and instructions rendered the Products unreasonably dangerous.

197. Further, Defendants failed to warn Plaintiff and the general public of the dangerous propensities of the Products, particularly that the Products contained endocrine-disrupting chemicals, despite knowing or having reason to know of such dangers; and failed to timely disclose post-sale information concerning the dangers associated with the Products.

198. As a direct and proximate result of these defects, Plaintiff suffered the injuries and damages set forth herein.

199. Plaintiff's injuries and damages were the result of misconduct of the Defendants that manifested a flagrant disregard of the safety of persons who might be harmed by the Products in question.

200. Defendants' misconduct was a direct, proximate, and producing cause of Plaintiff's injuries and damages set forth herein.

201. Defendants are therefore liable for manufacturing, distributing, and marketing

defective and unreasonably dangerous Products and introducing them into the stream of commerce.

202. As a direct and proximate result of Defendants' conduct, including actions, omissions, and misrepresentations, Plaintiff sustained the following damages:

- a. Economic losses including medical care and lost earnings; and
- b. Noneconomic losses including:
 - i. Physical and mental pain and suffering, infertility, emotional distress, inconvenience, loss of enjoyment and impairment of quality of life, past and future.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff demands judgment against Defendants on each of the above-referenced claims and causes of action, and as follows:

1. Awarding compensatory damages in excess of \$75,000, including, but not limited to pain, suffering, emotional distress, loss of enjoyment of life, and other non-economic damages in an amount to be determined at trial of this action;
2. Awarding economic damages in the form of medical expenses, out of pocket expenses, lost earnings, and other economic damages in an amount to be determined at trial of this action;
3. Punitive and/or exemplary damages for the wanton, willful, fraudulent, reckless acts of the Defendants who demonstrated a complete disregard and reckless indifference for the safety and welfare of the general public and Plaintiff in an amount sufficient to punish Defendants and deter future similar conduct;

4. Prejudgment interest;
5. Postjudgment interest;
6. Awarding Plaintiff's reasonable attorneys' fees;
7. Awarding Plaintiff the costs of these proceedings; and
8. Such other and further relief as this Court deems just and proper.

Dated: June 20, 2023

/s/
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