

# THE DANGEROUS CHEMICALS

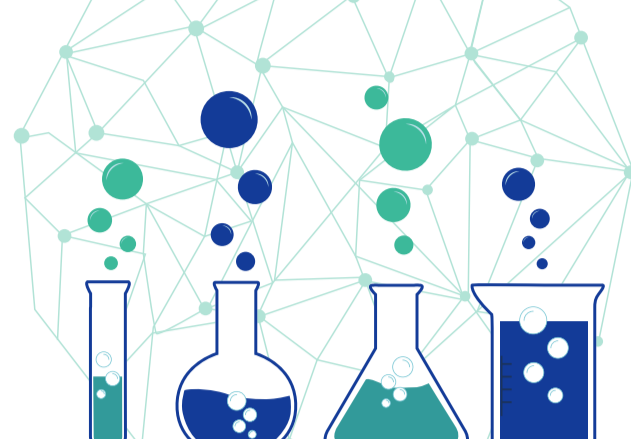
## HIDDEN IN YOUR EVERYDAY PRODUCTS



### FRAGRANCES

The pleasant smell from your perfume, cologne, or other skincare product can be concocted from over

**3,100** STOCK CHEMICAL INGREDIENTS



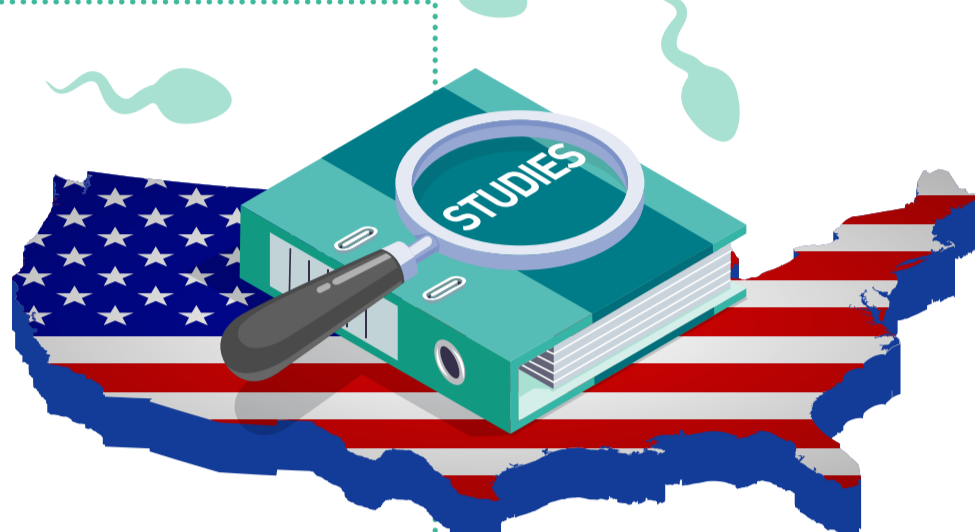
**CAMPAIGN for SAFE COSMETICS**  
safecosmetics.org

Lab tests and analysis by the Campaign for Safe Cosmetics and Environmental Working Group (EWG) revealed **38 SECRET CHEMICALS IN 17 NAME BRAND PERFUMES.**<sup>1</sup>



The average fragrance product contains **14 secret chemicals** not listed on the label.<sup>1</sup>

Secret chemicals can include diethyl phthalate (DEP), a solvent linked to abnormal development of reproductive organs in baby boys and sperm damage in men.<sup>1</sup> (Swan 2008)



**97%**

of Americans have DEP in their body.



**4** the average number of hormone disruptors found in brand name perfumes<sup>1</sup>

### BPA & PHTHALATES

BPA and phthalates are chemicals typically used in products like plastics containers, vinyl flooring, wall coverings, detergents, lubricating oils, food packaging, medical tubing, and yes, personal care products too.

BPA and phthalates are hormone disruptors and can cause cancerous tumors, birth defects, and other developmental disorders.<sup>3</sup>



In one study, BPA was administered to pregnant rats at various doses.<sup>2</sup>

**33%**

of the rats exposed to 250 Qg/kg body weight/d or higher developed cancerous cells in their mammary glands. None of the unexposed rats developed cancerous cells.



**Most common exposure to phthalates**

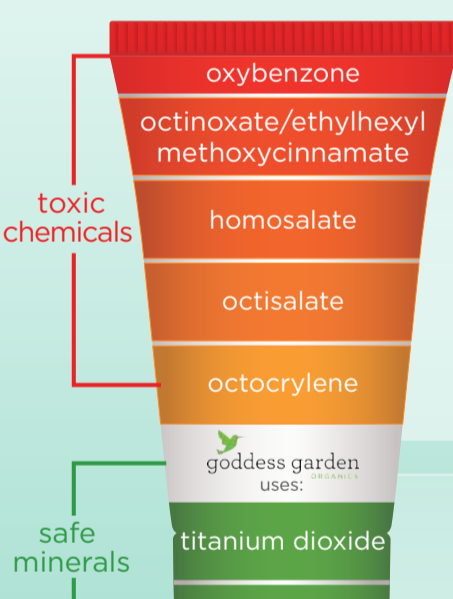
- Food packaging
- Cosmetics & personal care products
- Household dust

**75%**

of the population is exposed to phthalates on a daily basis<sup>2</sup>

Regulations do not require the listing of phthalates in labels. So, you won't see if they're present unless the brand is fully transparent.

### SUNSCREEN



The most worrisome is **oxybenzone**, added

**7 OUT OF 10** non-mineral sunscreens contain oxybenzone.<sup>4</sup>

Adolescent boys with higher levels of oxybenzone in their bodies have significantly lower testosterone.<sup>5</sup> (Scinicariello 2016)

When teen girls switched to cosmetics without oxybenzone, there was a significant, measurable drop in exposure.<sup>4</sup> (Harley 2016)

reported by **Berkeley** UNIVERSITY OF CALIFORNIA



**75%**

Sunscreen chemicals can be found in up to 85% of women's breastmilk.<sup>4</sup>

Reported by **University of Zurich**

**8 OF THE 13**

**SUNSCREEN CHEMICALS** allowed and common in the U.S. could reduce male fertility.<sup>4</sup>



The American Contact Dermatitis Society named methylisothiazolinone its **"allergen of the year"** in 2013.



**Methylisothiazolinone**

is found in **84 NAME BRAND SUNSCREENS**, included 6 marketed to children<sup>4</sup>

Serious cases of skin allergies in children are on the rise, most notably in children exposed to methylisothiazolinone in baby wipes and other products meant to be left on the skin (Chang 2014)



In a study published in 2014, researchers at Baylor University surveyed 152 children products labels "hypoallergenic." **30 of them contained methylisothiazolinone.** (Schlichte 2014)



1. EnvironmentalWorkingGroup.2012.NotSoSexyHiddenChemicalsInPerfumeandCologne. Available: [https://www.ewg.org/sites/default/files/report/SafeCosmetics\\_FragranceRpt.pdf](https://www.ewg.org/sites/default/files/report/SafeCosmetics_FragranceRpt.pdf)  
 2. Diamanti-Kandaraki,Evantiaetal."Endocrine-DisruptingChemicals: AnEndocrineSociety Scientific Statement." Endocrine Reviews 30.4 (2009): 293-342. PMC. Web. 14 Mar. 2018.  
 3. U.S.DepartmentofHealthandHumanServices.Phtalates. Available:<https://www.fda.gov/Cosmetics/ProductsIngredients/Ingredients/ucm128250.htm>  
 4. EnvironmentalWorkingGroup.TheTroubleWithIngredientsInSunscreens. Available:<https://www.ewg.org/sunscreen/report/the-trouble-with-sunscreen-chemicals/#.WqmSv5PwaM4>  
 5. Scinicariello,Buser."SerumTestosteroneConcentrationsandUrinaryBisphenolA, Benzophenone-3, Triclosan, and Paraben Levels in Male and Female Children and Adolescents." (2016) Epub 2016 Jul 6.