

# Phenols & Reproductive Health

Understanding everyday toxicants and how you can minimize your exposure



# Additional Resources

Learn more about the chemicals in your everyday products and environment:

**The Environmental Working Group:** www.ewg.org

**Explore our website:** www.seed-program.org

**Contact & Follow us:** 

SEED@hsph.harvard.edu (Twitter and Instagram) @drmesserlian





## How can I minimize my exposure to <u>phenols</u>?



#### **Phenois**

Phenols are endocrine-disrupting chemicals (EDCs) that are rapidly removed from our bodies. Still, these chemicals are found in many everyday products that lead to chronic and dangerous exposure.

Endocrine-disrupting chemicals (EDCs) interrupt normal hormonal activity by mimicking, blocking, or altering hormones and changing the way that they function in the body.

#### BPA-free products are still harmful

Bisphenol A or BPA is one of the most studied and well known phenols. However, several BPA-free products and alternatives contain other harmful phenols like BPF or BPS (chemical analogs).

BPA, BFS, BPS, and other phenols have a variety of health consequences:

- X Decreases brain and heart health
- X Decreases immune function
- X Increases adverse birth outcomes
- X Increases loss of pregnancy



Phenols are often added to plastic products to increase the strength and durability, while reducing the potential for bacterial growth. Along with BPA, triclosan is a common phenolic EDC found in everyday items such as toothpaste and antimicrobial or antibacterial soaps.

## Where are phenols found?



Personal care products, dental products, nail polish, and cosmetics



Takeout containers, plastic packaging and bottles, and plastic storage containers



Canned food and beverages (including some BPA-free cans)



Cleaning supplies, candles, air fresheners, antibacterial products, and household dust



Electronics, vaping mouth pieces, and medical devices