

# The Chemicals of Concern identified by the U.S. EPA

Chemicals of Concern	Known Concerns *	Higher Risk Populations	Major Uses	Some Consumer Product Uses
<a href="#"><u>Benzidine</u></a> <a href="#"><u>Dyes</u></a>	Cancer PBTs **	Babies and children Workers	Dyes	Clothing, textiles, footwear, leather products, paper, ink
<a href="#"><u>BPA</u></a>	Harm to reproduction Harm to the brain and behavioral changes Pervasive human and environmental exposure	Developing fetuses, infants and children Aquatic organisms	Polycarbonate plastic Epoxy resins Thermal paper Flame retardant	Reusable food and drink containers Canned foods Cash receipts Circuit boards
<a href="#"><u>HBCD</u></a>	High aquatic toxicity Harm to reproduction, development, and nervous system PBTs	Aquatic life Developing fetuses, infants and children Workers	Flame retardant for polystyrene foam boards	Thermal insulation boards
<a href="#"><u>MDI</u></a>	Asthma, lung damage Skin irritation	Workers Do-it-yourself consumers	Polyurethane foams and resins	Spray foam insulation, coatings, sealants and adhesives
<a href="#"><u>TDI</u></a>	Harm to immune system Chemical sensitivity	Self-employed		Floor coatings, sealants and adhesives
<a href="#"><u>NP and NPEs</u></a>	Extreme aquatic toxicity Skin & eye irritation Harm to reproduction and development PBTs	Fish, aquatic invertebrates, aquatic plants Developing fetuses, infants and children	Surfactants	Industrial laundry detergents, cleaners, indoor pesticides, food packaging and cosmetics
<a href="#"><u>PFCs</u></a>	Harm to reproduction and development PBTs	Developing fetuses, infants and children	Coatings that resist oil, stain, grease & water Fire resistance Surfactant	Fabric treatment: furniture, clothing, carpets & footwear Food packaging Non-stick cookware

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<b><u>PBDEs</u></b>	Harm to the brain Behavioral changes Ecotoxicity PBTs	Developing fetuses, infants and children Wildlife	Flame retardant for plastics, foams & fibers	Plastics in electronic equipment and appliances Wiring and cables Foam cushions in couches, chairs and vehicle seats Carpets and drapes
<b><u>Phthalates</u></b>	Harm to reproduction and development Pervasive human and environmental exposure	Developing fetuses, infants and children	Added to soften polyvinyl chloride (PVC) plastic	Flexible PVC plastic products, including shower curtains, bags, vinyl flooring, office supplies Medical IV tubing and blood bags
<b><u>SCCPs</u></b>	Aquatic toxicity Skin and eye irritation Harm to liver, thyroid and kidneys Cancer (suspected) PBTs	Aquatic organisms Workers	Lubricant & coolant for metal cutting and forming Plasticizer and flame retardant	PVC plastic products Rubber, paints, coatings, sealants, and adhesives

\* Known concerns are those that have been identified from either animal or human studies

\*\* PBTs are chemicals that are Persistent (long-lived in the environment), Bioaccumulative (building up to high levels in the food chain) and Toxic (harmful to life).

***U.S. EPA has issued Chemical Action Plans for these ten Chemicals of Concern.***

To access the Chemical Action Plans for each chemical, along with scientific and technical references, visit: <http://www.epa.gov/opptintr/existingchemicals/pubs/ecactionpln.html>.

Benzidine Dyes	Nonylphenol (NP), Nonylphenol Ethoxylates (NPEs)
Bisphenol A (BPA)	Long-Chain Perfluorinated Chemicals (PFCs)
Hexabromocyclododecane (HBCD)	Polybrominated Diphenyl Ethers (PBDEs)
Methylene Diphenyl Diisocyanate (MDI)	Phthalates
Toluene Diisocyanate (TDI)	Short-Chain Chlorinated Paraffins (SCCPs)

