

Type of plastic	Some examples of where it's found	In vitro evidence	In animal evidence	In human evidence
Low-density polyethylene (LDPE)	Flexible bottles, plastic wrap, freezer bag	Toxicity in cells varies from a lot to a little depending on type of LDPE	Lung inflammation at very high doses, mostly harmless to crustaceans	None
High-density polyethylene (HDPE)	Bin liner, plastic bottles, food storage containers	Minimal toxicity in cells	None	None
Polypropylene (PP)	Heat resistant food packaging films and wraps	Provokes immune responses at high doses	Toxic to fish at high doses, non-toxic to mice in short term	None
Polystyrene (PS)	Food containers like disposable cups, plates, bowls, and takeout boxes	DNA damage in human PBMCs, which is a type of immune cell; damage to spermatozoa	Damage to the mouse intestinal barrier; damage to mouse reproductive organs	None
Polyvinyl chloride (PVC)	Medical tubing, blood bags, IV bags	Some types of PVC induce significant toxicity in lung cells; no damage to rainbow trout cell lines	Toxic in nematodes when combined with beta blockers;	None, although the production of polyvinyl chloride is incredibly toxic to workers
Polyethylene terephthalate (PET)	Soda and juice bottles, salad dressing and other food products	Some toxicity in human lung cells; no toxicity in rainbow trout cells	Developmental delays and decreased survival in fruit flies	None
Polyurethane (PUR)	Foams in furniture, bedding, and refrigerators; cosmetics;	Genotoxic (slows doubling) in 3D human liver cancer cells (HepG2) but not	Inflammatory in mouse lungs at very high doses	Mild to moderate skin irritation in some individuals with specific types of PUR at

	medical implants	2D; not toxic to skin		high doses
Polypropylene (PP&A) Fibers	Disposable cutlery; medical tubing	None	None	None
Type of plasticizer	Some examples of where it's found	In vitro evidence	In animal evidence	In human evidence
Ortho phthalates	Food production and packaging; medical products; pharmaceutical coatings; cosmetics	None	Cognitive and reproductive impairments in developing mice; obesity in zebrafish	Association with behavioral problems and lower IQ in children
Terephthalates	[See polyethylene terephthalate]			
Trimellitates	Lipstick; food wrap	Safe in human lymphocytes; safe in rat hepatocytes	Mild reversible liver effects at high doses in rats	No effect in humans
Adipates	Pacifiers; food packaging films; face masks	Some types are non-mutagenic, some are not	Some types are carcinogenic in rats, some are not	None
Sebacates	Food Packaging; skin care and hair care; shaving creams; cosmetics	Non genotoxic or mutagenic in lymphocytes	Appears to be safe in animals	Appears to be safe in humans, but limited evidence
Organophosphates	Pesticides; flame retardants	Bad (they're pesticides)	Bad (they're pesticides)	A lot of people die from them
BPA	Some plastic food and drink containers; lining of some metal food cans; some bottle tops; some dental sealants	Genotoxicity and mutagenicity in breast cancer cell lines; reproductive disorders	Many developmental and reproductive effects in a variety of animals	Association with diabetes, asthma and cancer in humans

