

Hazardous substances	Sources or carrier of substances	Wastewater treatment technology	Overall removal efficiency [%]
Bisphenol A	Plastics	Activated carbon, ozonation	80-90
Brominated diphenyl ethers (BDEs)	Electronic equipment and furniture textiles	Ozonation, adsorption on inorganic adsorbents, activated carbon	90-95
Heavy metals; Cu, Hg, Pb, Zn, As, Ni	Metal coating, technical installations, paints, food, water	Precipitation, sedimentation, reverse osmosis, adsorption, ion exchange	50-98
Nonylphenol and octylphenol	Nonylphenol in paints, cleaning products and octylphenol in tire rubber, electrical insulation coating	Activated sludge in WWTP, adsorption, ozonation + activated carbon	50-95
Oil residues	Vehicles via stormwater	Oil/water separator, flotation, adsorption	60-99
Pesticides	Agriculture, food, water and air	Adsorption; activated carbon or other adsorbents. Advanced oxidation processes (AOP) e.g. ozonation, reverse osmosis	70-95
PFAA e.g. PFOS, PFOA	Water and oil repellents, stain resistance and firefighting foams	Reverse osmosis, nanofiltration, activated carbon, ion exchange	90-95
Pharmaceuticals	Human and veterinary medication	Activated carbon, ozonation	80-98
Phthalates	Solvents and plasticizers in PVC products, cosmetics, toys, building products etc	Nanofilter, activated carbon	95-98
Organophosphates	Insecticides, herbicides and medications	Adsorption on designed adsorbents	90-95
Microplastics	Plastics, cosmetics, traffic, syntetic fibric , litter, artificial grass	Sand filter, membrane bio reactor, ultrafilter	97-99.99