

Studies on the Fates of BPA Substitutes

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Bisphenols have uses in the manufacturing of an abundance of plastic products and have been found to pose serious threats to environmental health. In the past, bisphenol A (BPA) was the primary commercially used bisphenol, but widespread awareness of the ecological and human health impacts of this compound contributed to its phase-out. This led to the emerging use of BPF and BPS in industry, the prevalence and behavior of which are not well understood.

We hope to gain insight into the possible negative environmental effects that BPF and BPS may have by investigating the rates at which they undergo sunlight-catalyzed degradation. Laboratory research on the reaction kinetics of these compounds will allow us to determine the lifespan of these compounds and their fate in natural waters.