

Questions for PFASs Stakeholders

GENERAL

1. Do you manufacture, sell, or purchase PFASs or PFAS-containing consumer products? If so, which ones and in what amounts? What percentage of these products is manufactured in the U.S. and specifically in California?
2. What other stakeholders do you recommend we invite to a workshop on the use of PFASs in consumer products?

PFAS USE IN CARPETS, RUGS, INDOOR UPHOLSTERED FURNITURE, AND THEIR CARE AND TREATMENT PRODUCTS

3. Which PFASs are used in commercial and residential carpets, rugs, indoor upholstered furniture, and their care and treatment products? What functions do these PFASs provide? For each of these product types, when during the production cycle are the PFASs incorporated, and in what amounts?
4. Are there quantifiable economic benefits or benefits to human health and the environment from the use of PFASs-treated consumer products? If so, please provide supporting data.
5. What is the release/loss/degradation rate of the PFAS-based treatment of carpets, rugs and indoor upholstered furniture?

PFAS EXPOSURE AND EPIDEMIOLOGICAL DATA

6. Please provide data on human (including vulnerable populations) exposure to PFASs related to the use of commercial or residential carpet, rug and indoor upholstered furniture products and their care and treatment products.
7. Please provide any unpublished or not publicly available data from human epidemiological studies on health outcomes linked to exposure to PFASs. Are you aware of any such studies that are currently underway or planned?

HAZARD TRAITS OF “NEW” PFASS

8. Please provide any unpublished or not publicly available data on shorter-chain PFASs, fluorinated ethers, and other “new” PFASs regarding:
 - a. physico-chemical properties
 - b. contact rates, exposure point concentrations, and uptake at exposure points
 - c. toxicokinetics
 - d. bioaccumulation potential
 - e. in vitro/in vivo biological effects/hazards
 - f. human health impacts
 - g. environmental fate and transport
 - h. sensitive populations and ecological receptors

- i. mode of toxic action and specific cellular targets.

LIFE CYCLE IMPACTS

9. What method do you use for the handling and disposal of PFAS waste or PFAS-containing product waste?
10. What is your current understanding of how PFASs contaminate human food and drinking water, surface water, and groundwater? What are the major sources of this contamination, and which of these sources are most important in California? What is the contribution of consumer products to this contamination, and which consumer products might contribute most? Please provide references.

NON-FLUORINATED ALTERNATIVES

11. What non-fluorinated alternatives are currently available for commercial and residential carpets, rugs, indoor upholstered furniture, and their care and treatment products? Please provide details on the nature of the alternatives and their properties.
12. What are the challenges to using non-fluorinated alternatives in these product categories? Are non-fluorinated replacements more readily available or viable for some product categories than others?