Leading Regulations to Eliminate PFAS

in Europe and the US

Mike Belliveau, Executive Director



PFAS Use Remains Widespread

- Food packaging & food service ware
- Textiles, upholstery, leather, apparel, carpet & rugs, fabric sprays
- Cleaning agents, polishes & waxes
- Cosmetics & ski treatment
- Metal plating & metal products mfg.
- Lubricants & construction products
- Electronics, energy, transportation
- Medical devices & medicinal uses

Environmental Science Processes & Impacts



PAPER

View Article Online
View Journal | View Issue



Cite this: Environ. Sci.: Processes Impacts, 2020, 22, 2345

An overview of the uses of per- and polyfluoroalkyl substances (PFAS)†

Juliane Glüge, (1) *a Martin Scheringer, (1) a Ian T. Cousins, (1) b Jamie C. DeWitt, ^c Gretta Goldenman, ^d Dorte Herzke, (1) ef Rainer Lohmann, (1) g Carla A. Ng, (1) h Xenia Trier and Zhanyun Wang

Per- and polyfluoroalkyl substances (PFAS) are of concern because of their high persistence (or that of their degradation products) and their impacts on human and environmental health that are known or can be deduced from some well-studied PFAS. Currently, many different PFAS (on the order of several thousands) are used in a wide range of applications, and there is no comprehensive source of information on the many individual substances and their functions in different applications. provide a broad overview of many use categories where PFAS have been employed and for which function; we also specify which PFAS have been used and discuss the magnitude of the uses. Despite being non-exhaustive, our study clearly demonstrates that PFAS are used in almost all industry branches and many consumer products. In total, more than 200 use categories and subcategories are identified for more than 1400 individual PFAS. In addition to well-known categories such as textile impregnation, fire-fighting foam, and electroplating, the identified use categories also include many categories not described in the scientific literature, including PFAS in ammunition, climbing ropes, guitar strings, artificial turf, and soil remediation. We further discuss several use categories that may be prioritised for finding PFAS-free alternatives. Besides the detailed description of use categories, the present study also provides a list of the identified PFAS per use category, including their exact masses for future analytical studies aiming to identify additional PFAS.

Received 2nd July 2020 Accepted 23rd September 2020

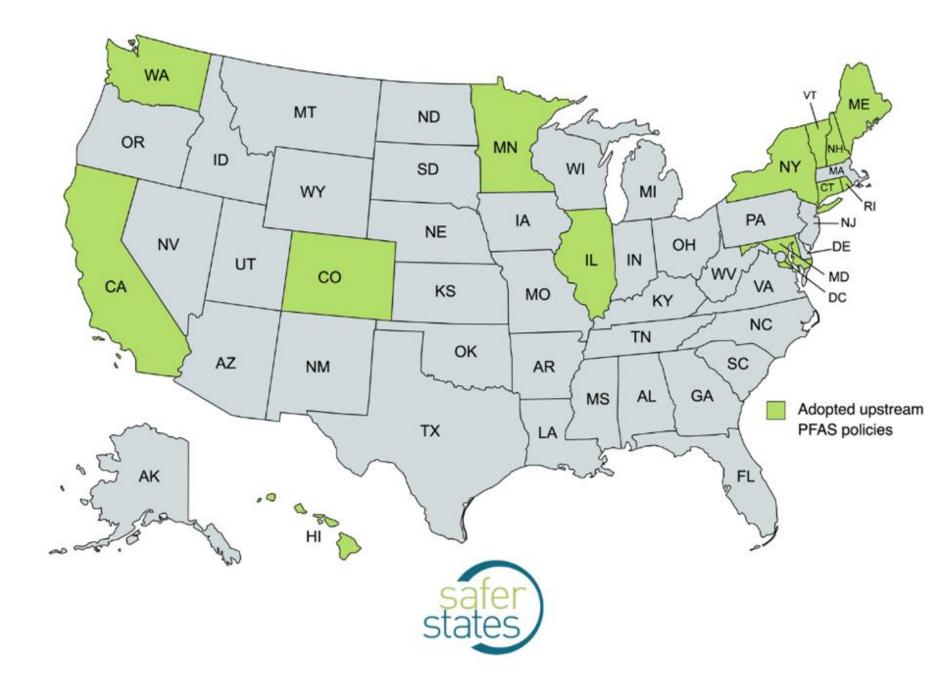
DOI: 10.1039/d0em00291g

rsc.li/espi

See also: Report summaries from 2nd Stakeholder Consultation on a Restriction on PFAS under REACH, July 2021, European Union



12 states have adopted upstream **PFAS** policies



PFAS should be out of Food Packaging by 2023



Food Packaging

Federal agencies are taking action to eliminate PFAS in food packaging, including:	 Department of Defense is phasing out PFAS in all military Meals Ready to Eat (MRE) food packaging 				
States are taking action to eliminate PFAS in food packaging, including:	 California Colorado Connecticut Hawaii Maine Maryland Minnesota New York 	Rhode IslandVermontWashington			
Restaurant chains are taking action to eliminate PFAS from some or all of the food packaging used in their outlets, including:	 Cava Chick-fil-A Chipotle Freshii McDonald's Nathan's Famous Panera Bread RBI (Burger King, Popeyes, Tim Hortons) 	StarbucksSweetgreenTaco BellWendy's			
Grocery stores are taking action to eliminate PFAS from some or all of the food packaging used in the products sold in their stores, including:	 Ahold Delhaize (Food Lion, Giant, Hannaford, Stop & Shop, Peapod) Albertsons (Safeway, Vons, Shaw's, Randalls, Haggen, Carrs) 	AmazonTrader Joe'sWhole Foods Market			

PFAS should be out of Textile Articles by 2025



Textiles

States are taking action to eliminate PFAS in carpets, rugs, apparel, textile furnishings, upholstered furniture, fabric treatments and/or other textiles, including:	CaliforniaColorado	MaineMaryland	VermontWashington
States are taking action to eliminate PFAS from and/or require disclosure of PFAS in firefighter personal clothing and equipment, including:	CaliforniaColorado	MarylandNew York	VermontWashington
Major brands and retailers are taking action to eliminate PFAS in apparel, carpets, rugs, textile furnishings, upholstered furniture, fabric treatments and/or other textiles, including, but not limited to:	 Deckers Brands H&M Home Depot IKEA Jack Wolfskin Keen Footwear 	 Levi Strauss & Co Lowe's Milliken & Co. Office Depot Patagonia Polartec 	StaplesSympatexTargetUggVictoria's SecretZara





Firefighting Foam

Federal agencies are taking action on PFAS based firefighting foam, including:	•	Department of Def	ens	e is phasing out the	use	of PFAS based foam
States are taking action through legislation and regulation to ban the use of PFAS based firefighting foam, and/or creating take back programs for already purchased foam, including:	•	California Colorado Connecticut Hawaii	•	Illinois Maine Maryland New Hampshire	•	New York Vermont Washington
States are banning incineration of firefighting foam, including:	•	Illinois	•	New York		

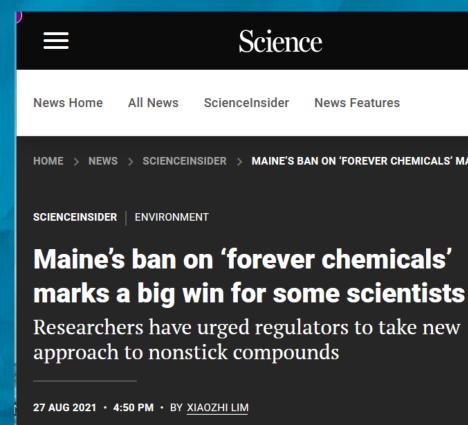


Cosmetics

States are taking action to eliminate PFAS chemicals in cosmetics, including:	•	California	•	Colorado	•	Maryland
Major retailers are taking action to restrict PFAS in cosmetics, including:	•	Target				

Maine Takes a Common-Sense Approach

- By Jan 1, 2023, PFAS use is prohibited in carpets, rugs & fabric sprays sold in state
- By Jan 1, 2023, all manufacturers must report PFAS use in products sold, and by industry
- By rule, Maine can phase out other nonessential uses of PFAS in other products
- By Jan 1, 2030, all PFAS uses are banned unless DEP determines that a specific use is "currently unavoidable" i.e. "essential to health, safety or functioning of society, and for which alternatives are not reasonably available





Thank You

Feel free to contact me with additional questions

Mike Belliveau

mbelliveau@defendourhealth.org

@preventharm



Solutions for a Toxic-Free Tomorrow

defendourhealth.org

Efforts to phase out PFAS use in products

- Many states tackling specific uses:
 - WA, ME, NY, VT, soon CA are addressing PFAS in food packaging
 - VT, ME, CA and soon WA are addressing PFAS in carpets, rugs, and fabric treatments
 - VT in ski wax
- Retailers and Manufacturers also taking action
 - Chipotle, McDonalds, Taco Bell and others have committed to eliminating PFAS from wrappers
 - Home Depot & Lowes stopped selling PFAS containing carpets and rugs
 - KEEN removing all PFAS from footwear by 2025



