# **Department of Legislative Services**

Maryland General Assembly 2020 Session

### FISCAL AND POLICY NOTE First Reader

House Bill 581

(Delegate Love, et al.)

Health and Government Operations

#### **Public Safety - Fire Fighting Foam and PFAS Chemicals**

This bill prohibits the use of "Class B firefighting foam" that contains intentionally added "PFAS chemicals" for testing purposes, with specified exceptions, or training purposes. Nonfluorinated training foam must be used for purposes of firefighting training. By January 1, 2023, the Maryland Department of the Environment (MDE) must conduct a study and submit a report to the Governor and the General Assembly regarding each application of a PFAS chemical in food packaging and the availability of safer alternatives. **The bill takes effect July 1, 2021.** 

### **Fiscal Summary**

**State Effect:** The bill's requirements are not anticipated to materially affect State finances. MDE did not respond to a request for information regarding the fiscal effect of the bill; it is assumed that MDE can conduct the required study with existing resources.

**Local Effect:** Local government expenditures may increase minimally for some jurisdictions to acquire alternative products and/or to implement containment, treatment, and disposal measures. Revenues are not affected.

Small Business Effect: None.

### Analysis

**Bill Summary:** Exceptions to the prohibition on the use of Class B firefighting foam for testing purposes include when (1) the use is required by law or by the agency having jurisdiction over the testing facility and (2) the testing facility has implemented appropriate

containment, treatment, and disposal measures to prevent uncontrolled releases of foam to the environment.

The bill does not restrict:

- The manufacture, sale, or distribution of Class B firefighting foam that contains intentionally added PFAS chemicals; or
- The discharge or other use of Class B firefighting foam that contains intentionally added PFAS chemicals in emergency firefighting or fire prevention operations.

"Class B firefighting foam" means a foam designed for flammable liquid fires. "PFAS chemicals" means a class of fluorinated organic chemicals containing at least one fully fluorinated carbon atom and designed to be fully functional in Class B firefighting foam formulations. "PFAS chemicals" includes perfluoroalkyl and polyfluoroalkyl substances.

## Current Law/Background: State law and regulations are silent with regard to PFAS.

## PFAS, or Perfluoroalkyl and Polyfluoroalkyl Substances

PFAS are a group of synthetic chemicals that include PFOA, PFOS, GenX, and many other chemicals. PFAS have been manufactured and used in a variety of industries in the United States since the 1940s. PFAS can be found in firefighting foam, nonstick cookware (*e.g.* Teflon), fast food wrappers, and stain-resistant sprays. PFAS manufacturing and processing facilities, facilities using PFAS in the production of other goods, airports, and military installations are some of the contributors of PFAS releases into the air, soil, and water. PFAS are persistent in the environment and the human body, which means they do not break down easily and can accumulate over time. Most people in the United States have been exposed to PFAS. There is evidence that exposure to PFAS can lead to adverse human health effects, including low infant birth weights, effects on the immune system, cancer, and thyroid hormone disruption.

Aqueous film-forming foams (AFFF) are used to extinguish hydrocarbon-fuel fires (*e.g.*, jet fuel fires), but they can contain PFAS, particularly in older formulations of AFFF. The identification of one class of fluorinated surfactants in groundwater impacted by firefighting activity has created an awareness of the potential environmental issues resulting from the use of AFFF agents. The Federal Aviation Administration (FAA) requires that certified airports use foams that meet military specifications; all such foams contain PFAS. The FAA Reauthorization Act of 2018 directed the FAA to stop the use of fluorinated foam by October 4, 2021. As a result, FAA is conducting research on the use of (1) testing equipment that does not require foam to be dispensed onto the ground and (2) fluorine-free firefighting foams. In addition, the U.S. Department of Defense (DOD) is HB 581/Page 2

working with the Strategic Environmental Research and Development Program (a partnership of DOD, the U.S. Environmental Protection Agency (EPA), and the U.S. Department of Energy) to develop nonPFAS AFFF alternatives.

#### Protecting Human Health and the Environment from Chemical Exposure

Federal laws such as the Clean Air Act, the Clean Water Act, and the Safe Drinking Water Act, many of which are enforced at the State level, aim to reduce chemicals in the environment. EPA regulates the introduction of new or already existing chemicals under the federal Toxic Substances Control Act (TSCA) of 1976. EPA has taken a range of regulatory actions to address PFAS substances in manufacturing and consumer products. EPA also developed an industry-implemented global stewardship program.

On May 19, 2016, EPA established drinking water health advisories for PFOA and PFOS (two of the most widely produced and studied types of PFAS). Health advisories provide information on contaminants that cause human health effects and are known or anticipated to occur in drinking water. These advisories are nonenforceable and nonregulatory, but provide drinking water system operators, and state, tribal, and local officials who have the primary responsibility for overseeing these systems with information on the health risks of these chemicals. EPA is also currently evaluating PFOA and PFOS pursuant to the Safe Drinking Water Act.

EPA has taken several actions under TSCA related to PFAS, including issuing multiple significant new use rules (SNURs). SNURs generally require any person who intends to manufacture or process an affected chemical to provide EPA with notice at least 90 days before starting or resuming use of the chemical. Most recently, on January 21, 2015, EPA proposed a SNUR, which would require any person who intends to manufacture or process affected chemicals to notify EPA at least 90 days before starting or resuming new uses of these chemicals in *any products*. Past SNUR action on PFAS was related to use in specific products. EPA has also been evaluating substitutes for certain PFAS for new chemicals pursuant to EPA's New Chemicals Program under TSCA since 2000.

Certain PFAS chemicals are no longer manufactured in the United States as a result of phase-outs that were agreed upon by major chemical manufacturers based on the evidence that PFAS pose significant health risks (see the <u>PFOA Stewardship Program</u>). However, some of these chemicals are still produced internationally and can be imported into the United States in certain consumer goods.

In 2019, MDE announced the formation of a task force involving several of the department's administrations. In addition, MDE established a three-step approach to the challenges of PFAS in the State, which includes (1) understanding the risk through science, inspection, and assessment; (2) communicating the risk through public education; and

HB 581/ Page 3

(3) managing the risk through appropriate funding, regulation, and agency coordination. As part of the first step, MDE has initiated a project to develop a GIS-based map to identify potential sources of PFAS in the State and to prioritize water sources for PFAS sampling. According to DOD, PFAS contamination in groundwater has been identified on at least eight military installations in the State.

According to the <u>National Conference of State Legislatures</u>, several states are also starting to address PFAS chemicals.

# **Additional Information**

Prior Introductions: None.

**Designated Cross File:** SB 420 (Senator Elfreth, *et al.*) - Education, Health, and Environmental Affairs.

**Information Source(s):** Prince George's County; Maryland Association of Counties; cities of Baltimore, and Bowie; Maryland Municipal League; Maryland Higher Education Commission; University System of Maryland; Maryland Department of the Environment; Department of State Police; American Chemical Society; U.S. Department of Defense; U.S. Environmental Protection Agency; Federal Aviation Administration; National Conference of State Legislatures; Department of Legislative Services

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