

Essential Chemistry for America

What You Need to Know About Essential Chemistry:

Understandably, communities and the federal government have been engaged in discussions about how to effectively and appropriately clean up specific legacy PFAS in the environment, substances that are no longer in commerce. But what exactly is PFAS, and what are they and other fluorochemistries used for today? The term PFAS includes thousands of chemistries that can and do have very different properties, so they are not all the same. Today's fluorochemistries, including PFAS, possess a unique combination of properties to repel water and retain heat that makes them durable, efficient, versatile, reliable, and ultimately irreplaceable across critical sectors. Fluorochemistries used across U.S. industries contribute over \$1 trillion annually towards U.S. GDP and result in over six million jobs.



Source: *Quantifying the Economic Contribution of Key Industries which use PFAS as Vital Inputs* (inforumecon.com)

The Challenge:

There are increasing pressures from all levels of government to address environmental challenges that can be associated with certain kinds of PFAS. In working to address these challenges, policymakers have in recent years considered, and in some jurisdictions passed, sweeping bans that would treat all PFAS the same and restrict access to innovative fluorochemistries that are essential for applications across every major sector of the U.S. economy.

The Initiative:

The *Essential Chemistry for America* initiative is dedicated to safeguarding access to fluorochemistries by increasing awareness of their essential role across every major sector of the U.S. economy. The campaign will educate policymakers and business leaders about the role of essential chemistry in virtually every aspect of our lives, and advocate for a sound, science-based regulatory environment for them.



Essential Chemistry
for America

For More Information Visit
[www.uschamber.com/major-initiative/
essential-chemistry-for-america](http://www.uschamber.com/major-initiative/essential-chemistry-for-america)

Fluorochemistries Support Critical Sectors Across the U.S. Economy:



Air Travel & Space Exploration

Fluorochemistries enable safer, faster, cleaner, and more affordable air travel for American consumers, providing flame resistance, increased engine performance, and enhanced fuel efficiency. Fluorochemistries are also used in spacecraft components like cables that allow for electrical supplies, temperature and air pressure monitors, and life support systems.



Semiconductors

Fluorochemistries are required technologies for the chip fabrication process – enabling semiconductor manufacturers to maximize chip yields, improve processes, and maintain consistency in micro-designs.



Defense Equipment & Systems

Fluorochemistries offer unmatched performance, durability, efficiency, and versatility in weapons and communications systems – providing our military with the best available technologies to protect American interests at home and abroad.



Health Care

Fluorochemistries make life-saving medical devices more durable and effective, reducing the risk of equipment failures, infections, and unnecessary medical procedures.



Automotive

Fluorochemistries increase car performance, boost driver comfort, and support long-term sustainability as U.S. automakers continue to lead the charge in the electric vehicle transition.



Data Centers

Fluorochemistries reduce data center cooling energy consumption and nearly eliminate water use, offering energy-efficient cooling and reductions in operating costs.



Energy Transition

Fluorochemistries increase durability, lower maintenance costs, and improve efficiency across renewable energy applications, including solar panels, wind turbines, hydrogen production, and rechargeable fuel cell batteries.

