

**THE PROBLEMS WITH  
PFAS**



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## California bans all cosmetics and clothing containing ‘forever chemicals’

The bills make California the first state to ban PFAS in textiles

**Vishwam Sankaran** • Monday 03 October 2022 14:35 BST

1 Comments

School Uniforms Contain High Levels Of Dangerous Chemicals

California governor **Gavin Newsom** has signed two bills into law banning toxic “forever chemicals,” also known as **PFAS**, from being added to cosmetics, clothing textiles and personal care products sold in the state.


These chemicals, known as per- and polyfluoroalkyl substances or PFAS, have been in use since the 1940s and are commonly found in nonstick cookware,

**The New York Times**

## 3M Reaches \$10.3 Billion Settlement in ‘Forever Chemicals’ Suits

The deal followed an agreement by Chemours, DuPont and Corteva to pay \$1.19 billion to help resolve claims that the chemical manufacturers contaminated drinking water across the country.

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**The Brussels Times** SUBSCRIBE

## PFAS pollution in tap water: Brussels open to new ‘overly-cautious’ measures

Sunday, 26 November 2023

By **Ugo Realfonzo**



Vivaqua headquarters in Brussels. Credit: Belga / Siska Gremmelprez





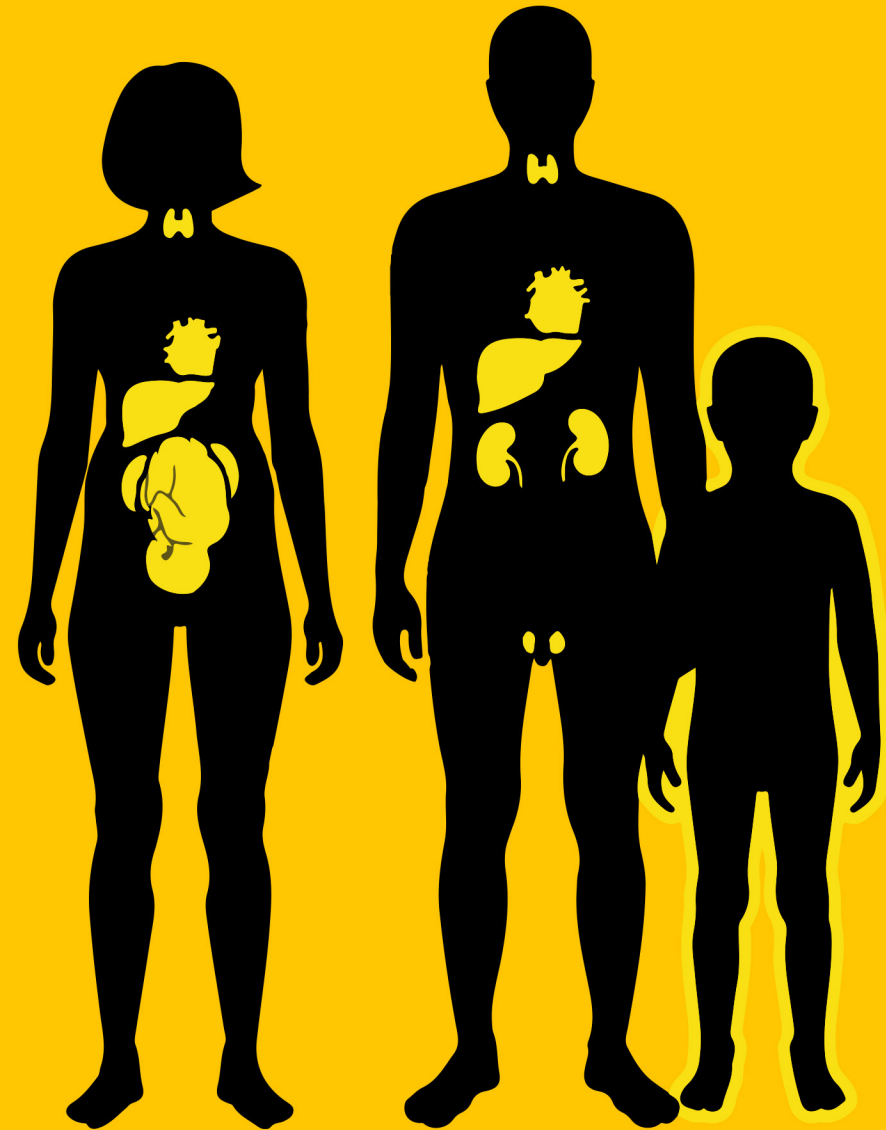
## **PFAS IS TOXIC**

The hazardous substances are absorbed and stored in the body through ingestion, inhalation and dermal contact.

# KNOWN HEALTH EFFECTS

Kidney cancer  
Breast cancer  
Testicular cancer  
Prostate cancer  
Liver cancer  
Hormonal and thyroid issues  
Decreased lung function  
Vaccine resistance (in children)  
Decreased immunity (in children)  
Elevated blood pressure (in pregnant women)  
Preeclampsia  
Impact on newborn birth weight  
Elevated cholesterol levels

**... AND MORE.**







# **UNKNOWN HEALTH EFFECTS**

New health hazards are continuously reported.



## **PFAS IS REPELLENT**

PFAS molecules have a structure that enables them to repel water, oil and dirt.



## **PFAS IS RESISTANT**

PFAS withstands high temperatures and cannot be removed by flushing, scrubbing, boiling or steaming.





**WATER RESISTANT  
CLOTHING**



**PAINT**



**COSMETICS**



**PESTICIDES**

# **PFAS ARE EVERYWHERE**



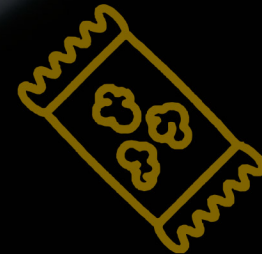
**NON-STICK  
COOKWARE**



**PERSONAL CARE  
PRODUCTS**



**FAST FOOD  
PACKAGING**

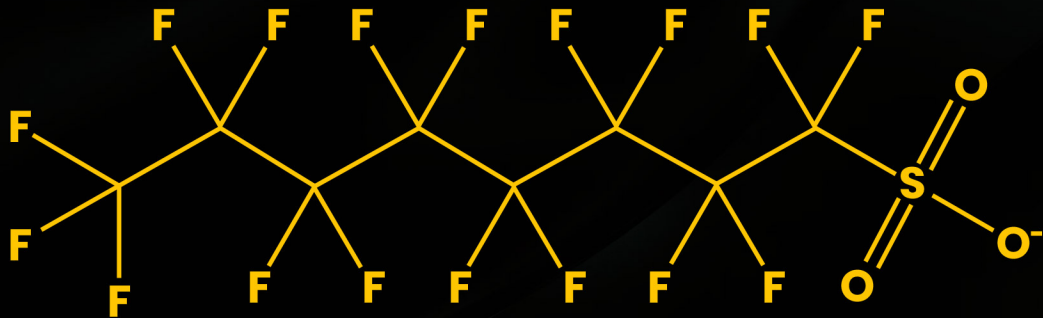


**MICROWAVE  
POPCORN BAGS**

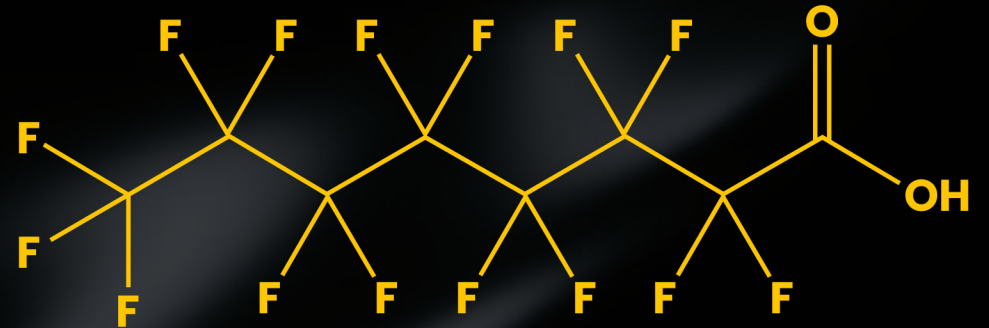


# **FIREFIGHTING FOAMS**

# PFAS IN FIREFIGHTING FOAMS



**PFOS**



**PFOA**





# ENGINEERED TO CIRCUMVENT BANS

Fluorinated substances in foam liquids are replaced by new versions when banned: **PFOS** was replaced by **PFOA**, which in turn was replaced by **PFHxA** and **PFHxS**.

# BANNED FLUORINATED SUBSTANCES

**PFOS**  
Banned 2011



2010

**PFOA**  
Banned 2023



2020

**PFHxA / PFHxS**  
To be banned 2027



2030

# 2029



**TOTAL PFAS BAN**





# BETTER DETECTION NEEDED!

The most common analyses are not sufficient.



**PFAS 4/11/22/35**

Does **NOT** comply with regulations!



# **TOP ASSAY**

Complies with regulations!

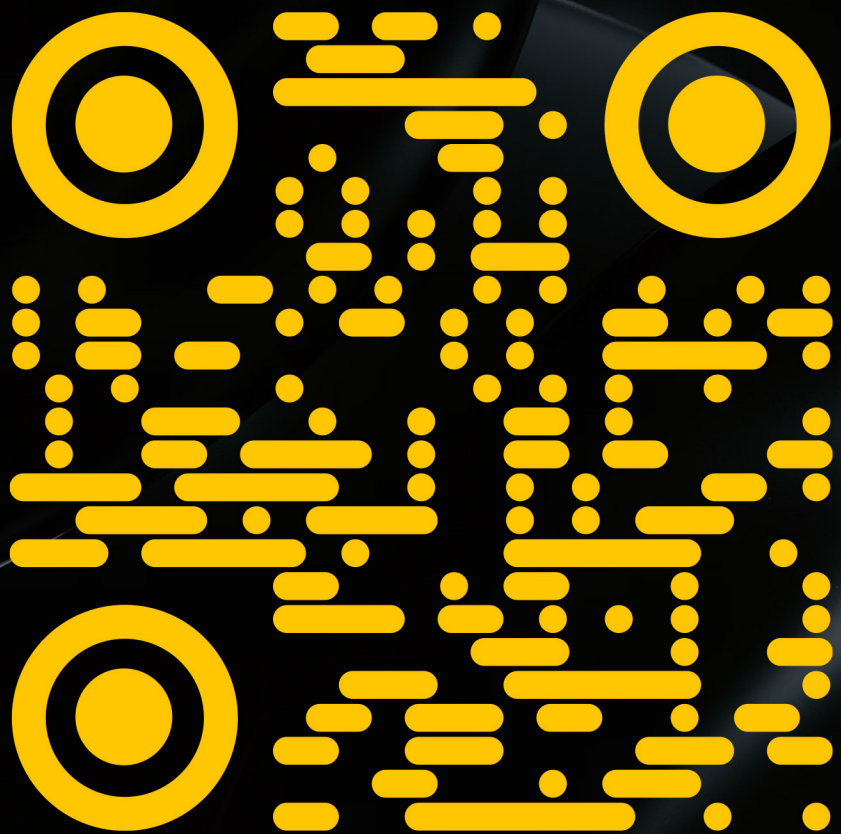




**THE WAY FORWARD**

**PFAS NEEDS TO BE FIXED**





[pfix.se/the-fix](https://pfix.se/the-fix)

**pfix**

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