



# PFAS Regulation: What's Next? A Global Perspective

*Key talking points from PFAS regulations*

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# Global Regulatory Activity

- A lot of activity, especially North America, Europe & Asia-Pacific.
- Many countries have ratified the [Stockholm](#) (152/186 countries) and [Rotterdam](#) (72/165 countries) Conventions.
- [Global Regulations Around PFAS: The Past, the Present and the Future Publication \(2023\)](#)



# PFAS Lists

- DYK: over 16 million theoretical PFAS.
- Regulatory monitoring and identification of PFAS key steps.
- Key Lists:
  - [OECD Global Database of PFAS](#) (4730 PFAS; 2017)
  - [CompTox Chemicals Dashboard PFAS List](#) [11,409 substances; does not include polymers or UVCBs (Unknown or Variable compositions, Complex reaction products, and Biological materials); updated on December 2023]
  - [SRS PFAS List](#) (12,696 substances; updated in February 2024)
  - [Public List of TSCA PFAS for 8\(a\)\(7\) Rule](#) (1,224 substances; updated in January 2024)

# PFAS Definitions

- US EPA defines PFAS as “including at least one of the following three structures:
  - $R-(CF_2)-CF(R')R''$ , where both the  $CF_2$  and  $CF$  moieties are saturated carbons;
  - $R-CF_2OCF_2-R'$ , where  $R$  and  $R'$  can either be  $F$ ,  $O$ , or saturated carbons; and
  - $CF_3C(CF_3)R'R''$ , where  $R'$  and  $R''$  can either be  $F$  or saturated carbons”
- OECD defines PFAS as **fluorinated substances** that contain **at least one fully fluorinated methyl or methylene carbon atom (without any H/Cl/Br/I atom attached to it)**, i.e. with a few noted exceptions, any chemical with at least a perfluorinated methyl group ( $-CF_3$ ) or a perfluorinated methylene group ( $-CF_2-$ ) is a PFAS.
- **Yordas PFAS identification software** - screens substances to identify if PFAS based on different definitions.

# Other topics of interest

- Fluoropolymers (FP):
  - Should FP, which match the PFAS definition, come under the same bracket for restriction?
  - Polymer of low concern & safe under standard conditions of use?
  - Key for various applications
- Essential/unavoidable uses
  - What uses of PFAS should come under essential/unavoidable uses?
- <https://www.yordasgroup.com/news/pfas-questions-answers>

*[check "resources" for further free articles, webinars, whitepapers & case studies]*

Jude Arokianathar joined Yordas Group in 2021 as a Regulatory Consultant following a Ph.D. in Organic Chemistry and MSci in Pharmaceutical Chemistry. He is part of the Product Stewardship team at Yordas Group, where he works closely with clients from various sectors such as aerospace and defense, automotive, electronics, and consumer products to ensure their compliance with existing and upcoming chemical and environmental legislation.

Jude is a subject-matter expert in PFAS and would describe himself as a “PFAS enthusiast”. He leads the PFAS services at Yordas Group where, with his strong scientific and regulatory background, he guides clients through their “PFAS journey”, which includes: global monitoring and tracking of relevant regulatory updates; advising on the scope and implications of these updates; identifying PFAS contained in products; data gap analysis; engaging with suppliers/manufacturers through surveys; assessing possible alternatives; and engaging with government agencies e.g. through public consultations. Jude has also been instrumental in developing Yordas Group’s PFAS identification software, which allows users to identify whether substances are PFAS based on specific definitions, such as the OECD/ECHA and US EPA PFAS definitions. Additionally, he has produced several high-impact communications, including articles, fact sheets and presentations on PFAS as well as other substances of concern. Notably, last year, he co-authored a review article in the International Chemical Regulatory and Law Review journal regarding “Global Regulations Around PFAS: The Past, the Present and the Future”.



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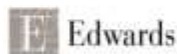
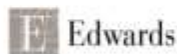
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# Thank you!

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