

# An Alternative Regulatory Approach to the Universal PFAS Restriction

October 2023

### **The Proposed PFAS Restriction at a Glance**



#### Proposed Regulatory Scope

- Full ban of around 10,000 individual substances
- **18-month transition phase** after the regulation's entry into force
- PFAS definition based on chemical structure

#### Implementation of a Grouping Approach

- Approach is focused on **persistency** as the common property
- Aim to accelerate restriction process and avoid potentially regrettable substitutions
- Ignores significant differences between individual substances (manufacturing process, uses, socioeconomic benefits, health and environmental profiles)



#### **Use-Specific Derogations**

- Proposed use-specific derogations of five to 12 years if deemed critical for society and if alternatives do not (yet) exist
- Companies are obliged to provide use-specific data to demonstrate criticality and lack of alternatives



### There Is a Better Way to Regulate Fluoropolymers

#### The current proposal

- Would **not address potential risks** as the manufacture and use of fluoropolymers and other substances would continue elsewhere
- Would have a significant **negative socio-economic impact** on the European economy
- Would harm European strategic autonomy and global competitiveness
- Would create tremendous administrative efforts for companies and authorities alike

#### Industry proposal: targeted, science-based, and coherent approach to regulation

- Exempt fluoropolymers (polymers of low concern) from the restriction
- Define science-based and most robust and rigorous standards for chemical manufacturing

The EU can seize the opportunity to <u>create a regulatory benchmark</u> for the safe manufacture and use of chemicals that supports innovation and the sustainable transformation of the economy.



## Fluoropolymers – Drivers for Innovation & Sustainability



As it will take years or decades to develop alternatives – if possible – a phase out of fluoropolymers would result in a gap in capabilities for innovation, products, and industries.



### October 12,

### **Fluoropolymers Are Safe for Their Intended Use**

A substantial body of scientific data demonstrates that fluoropolymers **do not pose a significant risk to human health or the environment** because of their unique characteristics and responsible manufacturing principles.





### **Responsible Manufacturing: Managing Risks Effectively**

#### Investments in state-of-the-art emissions control facilities

- Chemours already achieved a significant emission reduction, including fluorinated polymerization aid recovery for reuse, 99% reduction of air/water process emissions, and 99% plant emission reductions.
- Fluoropolymer manufacturers committed to the highest manufacturing standards worldwide, including:
  - Minimizing emissions of non-polymeric PFAS residues from polymerization aids
  - Promoting the adoption of commercially available state-of-the-art technologies to minimize non-polymeric PFAS emissions in manufacturing
  - Informing downstream users of fluoropolymers on their safe handling.

#### Amending existing regulatory guidelines to ensure safe manufacture and handling of fluorinated chemistry

- Expand regulatory framework of strictly controlled conditions, as defined in REACH Art 18(4) (a) – (f)
- Enhance Waste Framework Directive (WFD) with slight modifications/amendments
- Foster existing recycling and incineration processes and methods

### Important to consider that a European ban on PFAS would not address potential risks

The manufacture and use of fluoropolymers and other PFAS substances would continue in other regions

#### The Fluoropolymer Manufacturing Process



Already today, every stage of fluoropolymer manufacturing—from the earliest stages of raw materials and monomers to the creation of polymers—is completed responsibly, with thorough management of raw materials, polymerization aids, and the resulting polymers that are used in various product applications.

Implementing strict regulatory standards to allow for the <u>continued and safe use</u> of fluoropolymers and other PFAS substances critical for society.



### **Importance of Fluorinated Polymerization Aids**



Fluorinated polymerization aids provide fluoropolymers with a very high purity and cleanness,

which is key in medical applications, for color-coding tubes and wires, and in a number of other sectors. In comparison to fluorinated polymerization aids, the use of a **non-fluorinated polymerization aid can yield more by-products** with varying compositions whose

impact on the environment cannot immediately be known. Ŷ

In the production of PTFE, FEP and PFA made by the emulsion polymerization process, nonfluorinated polymerization aids currently lead to significantly lower quality and performance, and there is currently no non-

fluorinated polymerization aid technology available that can meet the respective performance requirements and have low levels of residues.

#### Non-Fluorinated Polymerization aids are not a holistic solution.



### A Better Way to Regulate Fluoropolymers: Targeted, Science-Based, and Coherent



**Exempt fluoropolymers** (polymers of low concern) from the restriction



Define science-based and most robust and rigorous **standards for chemical manufacturing**.



**Create a regulatory benchmark** for the safe manufacture and use of chemicals that drives innovation and the sustainable transformation of the economy



### **Chemours Supports the Regulatory Process**

- Chemours' Advanced Performance Materials (APM) business unit submitted a total of 10 submissions; idea to utilize unique expertise as manufacturer of fluorinated chemistries
- Submissions provide **detailed data and knowledge** about the manufacture, use, and end-of-life management of fluorinated chemistry
- Special emphasis on interconnectedness of various downstream uses
- Submissions focus on mitigating and controlling potential **risks** and assessing the **socio-economic** benefits of fluoropolymers in particular and fluorinated chemistry more broadly



# Thank you!

