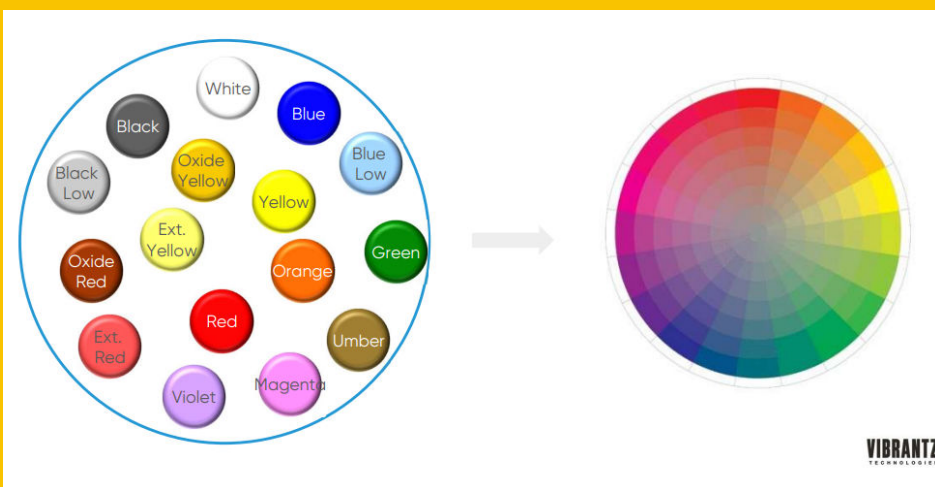




Pigment Yellow 154



- Versatility
 - Solvent based systems
 - Water based systems
 - Interior/decorative
 - Exterior
- Durability
 - ~ Sustainability

Definition of PFAS

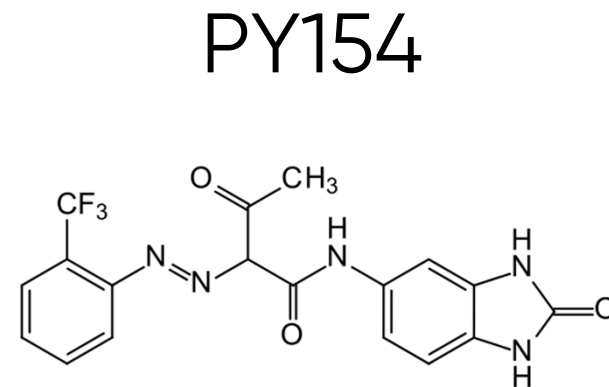
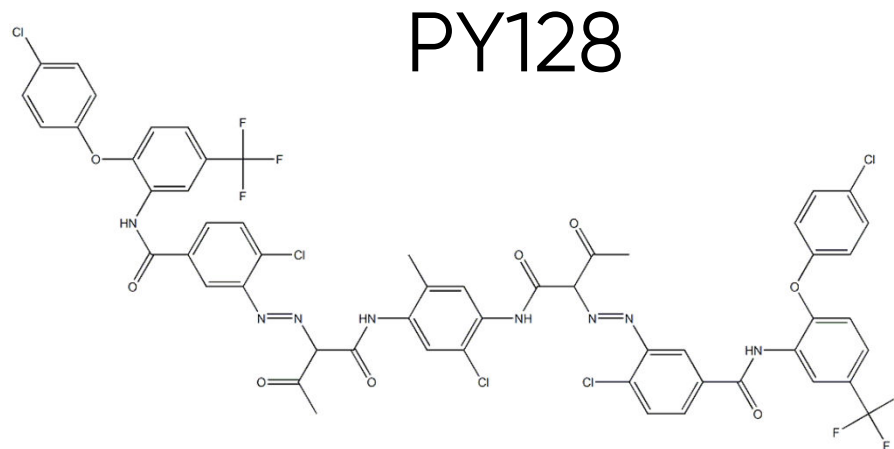
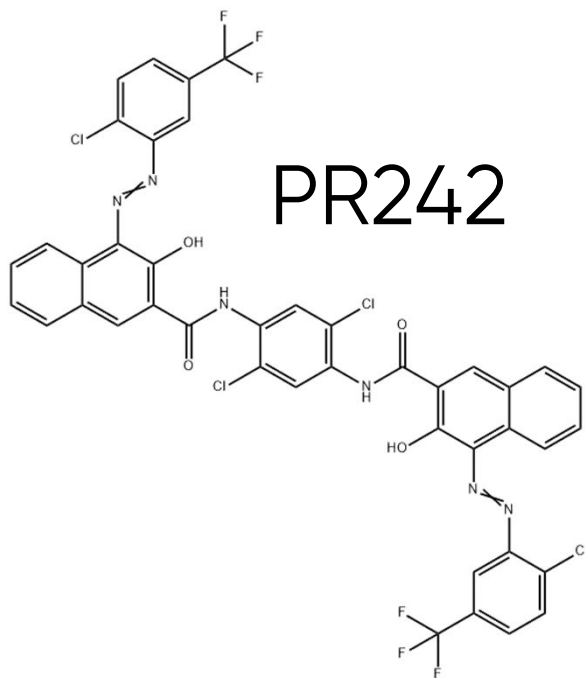
Per- and polyfluoroalkyl substances (PFASs) defined as: Any substance that contains at least one fully fluorinated methyl (**CF₃-**) or methylene (**-CF₂-**) carbon atom (without any H/Cl/Br/I attached to it).

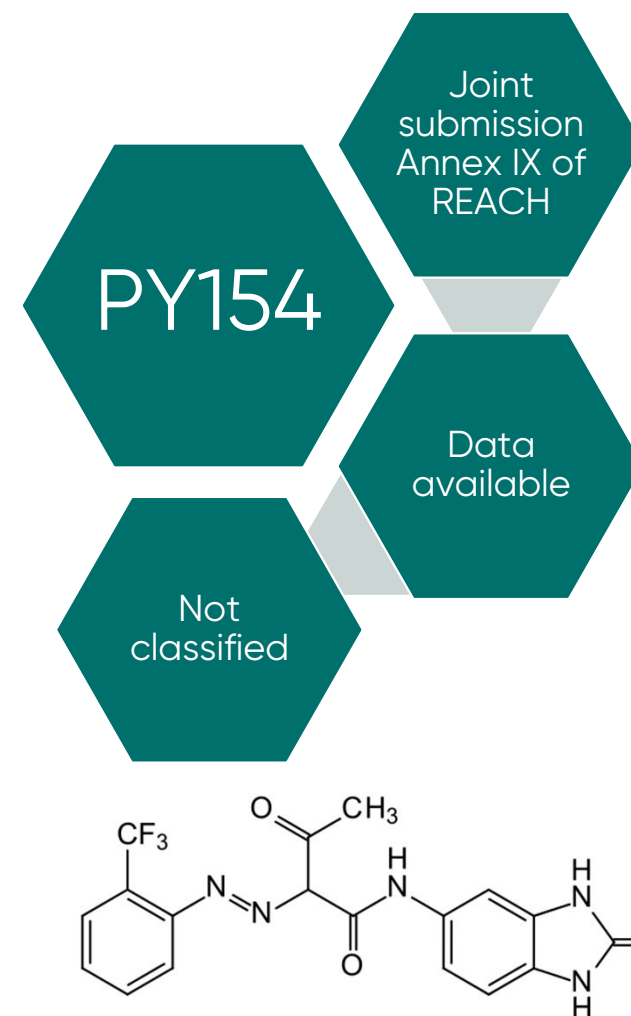
A substance that only contains the following structural elements is excluded from the scope of the proposed restriction:

CF₃-X or X-CF₂-X',

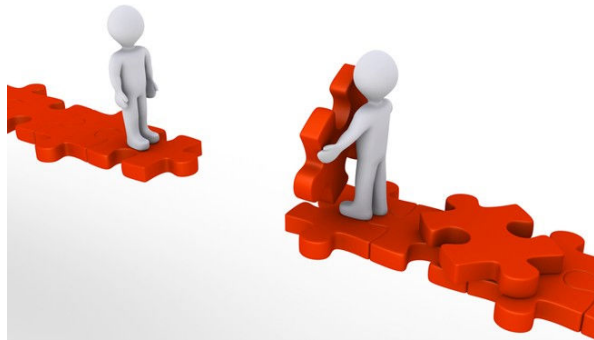
where X = -OR or -NRR' and X' = methyl (-CH₃), methylene (-CH₂-), an aromatic group, a carbonyl group (-C(O)-), -OR'', -SR'' or -NR''R''',

and where R/R'/R''/R''' is a hydrogen (-H), methyl (-CH₃), methylene (-CH₂-), an aromatic group or a carbonyl group (-C(O)-).



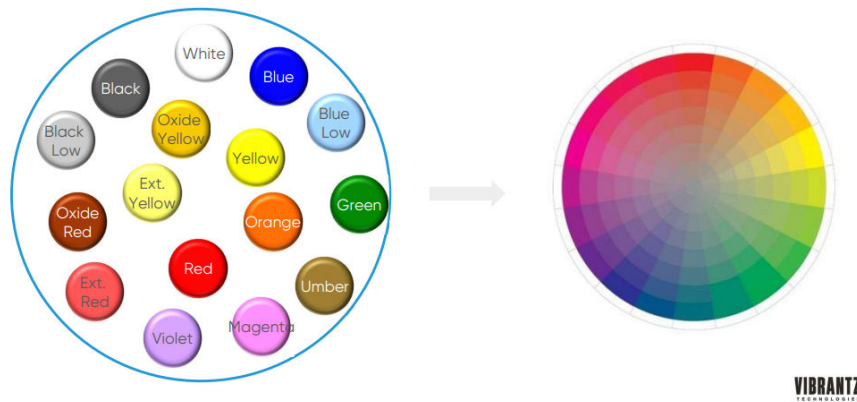


Is substitution possible on a short time scale?



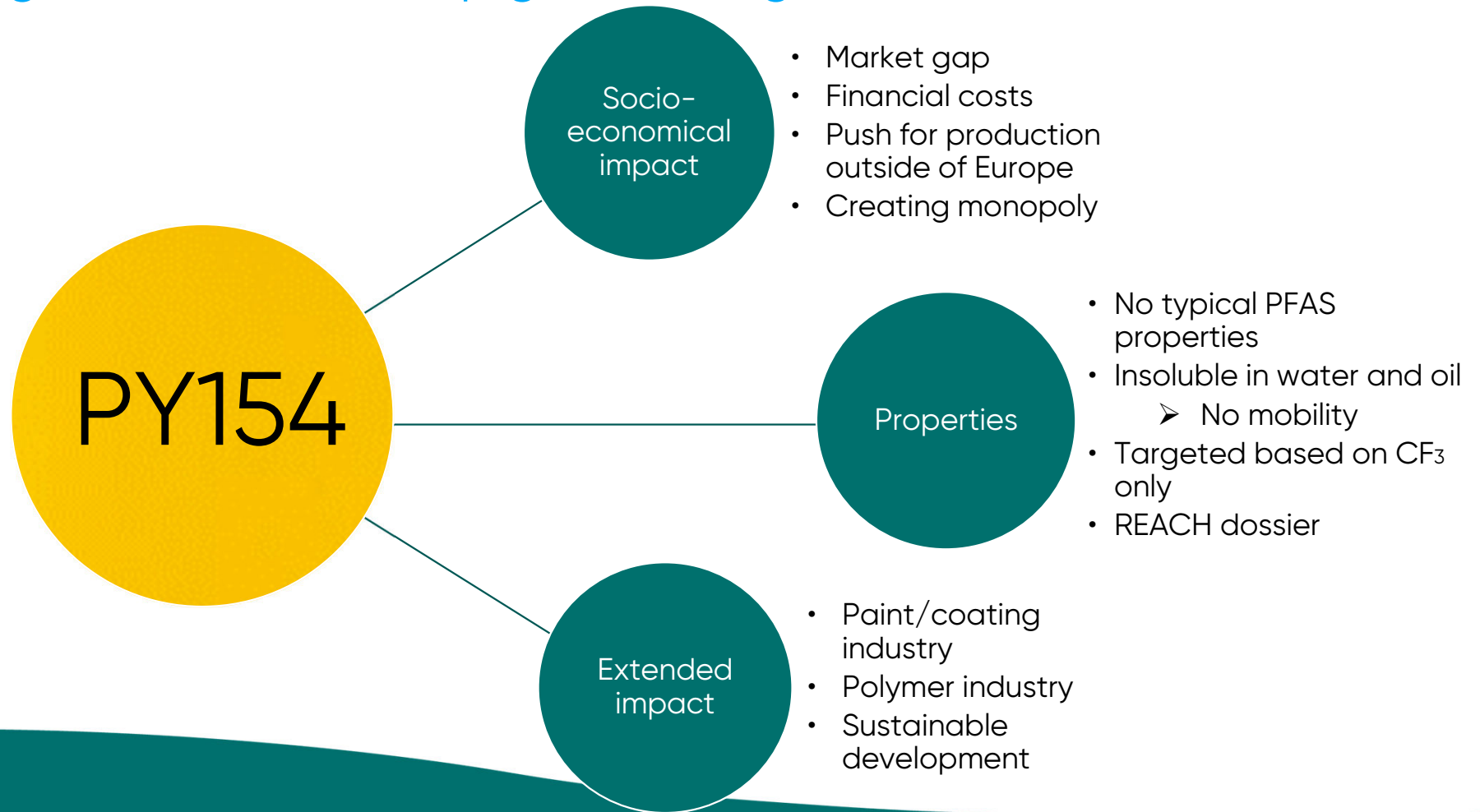
Alternatives

- No one on one drop-in
- Less durable (~sustainability)
- Shift of production outside of Europe
- Min. 4 years of development
 - Estimated cost $\pm$ € 1.000.000
- Market acceptance



Summary

Does Pigment Yellow 154 (pigments in general) need to be restricted?





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