



# Development and manufacture of new, more sustainable and safer materials using biobased functionalised additives based on lignin and tannins to improve fire resistance

Sustainable Composites Researcher

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This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101178218

### **Objectives and ambition**

BIOSAFIRE's main objective is to develop a new generation of safe and sustainable-by-design biobased flame retardants that replace current toxic alternatives with high-performance sustainable ones while testing the implementation of the JRC's SSbD Framework and providing guidelines and recommendations for its improvement driven by hands-on industrial experience.





# **Added Value Chain**





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### **Added Value Chain**

#### Lab Testing + Data Interoperability + SSbD + Dissemination & Explotation





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# **Biosafire Management Structure and WPs**



**BIOSAFIRE will upscale to market readiness (TRL7) at least 2 bio-based flame retardants**, developing a materials portfolio and guidelines to promote the further substitution of toxic flame retardants in resins and matrixes beyond those demonstrated by the project use cases.







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