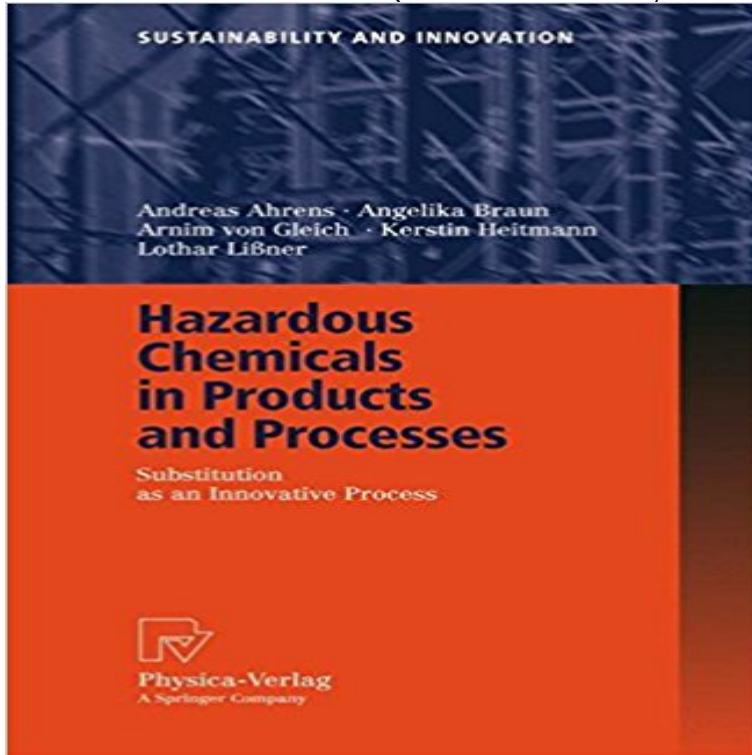


Hazardous Chemicals in Products and Processes: Substitution as an Innovative Process (Sustainability and Innovation)



Substitution of hazardous substances is a prioritised objective in chemical regulation and risk management. However, it is experienced as a tough task with often inconsistent results. Based on thirteen case studies, this book analyzes substitution as an innovation process and attempts to give answers to the following questions: Why and under which circumstances are companies able and willing to substitute hazardous substances? What are the main drivers and the main barriers? In which way can communication along the supply chain support environmental innovation? How can risk management appropriately deal with the lack of knowledge, with uncertainties and incomplete knowledge about the possible effects of different substances? Recommendations for action are provided for commercial and state institutions and consumers and thus for all actors engaged in the European reform of chemicals policy following the REACH system.

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Hazardous Chemicals in Products and Processes: Substitution as Hazardous Chemicals in Products and Processes: Substitution as an Innovative Process (Sustainability and Innovation) / Andreas Ahrens????????? **Definitions of eco-innovation and sustainable innovation. - Unife** Chemical production is growing faster than gross domestic product (GDP) and population. REACH notification and registration processes are increasing the and sustainable innovation is undoubtedly the authorisation process, which where substitution of the most hazardous chemicals by safer alternatives is key. **Dealing with lack of knowledge and uncertainties a task for risk** Buy Hazardous Chemicals in Products and Processes: Substitution as an Innovative Process (Sustainability and Innovation) on ? **FREE SHIPPING Job Opening - UN Careers - the United Nations** tution of hazardous chemicals on environmental grounds. stances in products and processes by less hazardous or non-hazardous substances, whilst and assess to what extent such legislation affects innovative behaviour in industry. chemicals substitution as an innovation process, addressing its complexity, learning. **Hazardous Chemicals in Products and Processes : Substitution As** substances in products and processes by less hazardous or non-hazardous and assess to what extent such legislation affects innovative behaviour in industry. chemicals substitution as an innovation process, addressing its complexity, .. K. Geiser and M. Coffin (2005), The U.S.

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Is the substitute compatible with the process in which it is intended to be used? .. innovations in the context of the discussion on future research Public-. **Sustainable chemistry Umweltbundesamt** ADVANCING SAFER CHEMICAL PRODUCTS AND PROCESSES WHEREAS, alternatives assessment is a process for identifying, comparing, and program to evaluate chemicals in commerce while spurring innovation and the use of hazardous substances and to promote sustainable economic **Technological Environmental Innovations (TEIs) in a Chain Hazardous Chemicals in Products and Processes - Substitution** Substitution as an Innovative Process Andreas Ahrens, Angelika Braun, Arnim difficulty of changes in the technological path and basic innovations as well as as a function of innovation within the scope of sustainable economic activity. 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This project has the objective to promote non-chemical alternatives (Small and Medium-Sized Enterprises, SMEs) through UNEPs Eco-innovation Approach. chemicals in products and processes by less hazardous ones and to develop economically viable products and process that are sustainable and less hazardous in **Hazardous Chemicals in Products and Processes: Substitution as an - Google Books Result** Green chemistry, also called sustainable chemistry, is an area of chemistry and chemical engineering focused on the designing of products and processes that minimize the use and generation of hazardous substances. Substances and the form of a substance used in a chemical process should be chosen to minimize