FIJISHI

Proactive Material Safety Assessment for Consumer Goods.

India, 17 May 2025/ 12:19 AM IST

Disclaimer: The following is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Fijishi's products remains at the sole discretion of Fijishi.

Case Study: Proactive Material Safety Assessment for Consumer Goods

Type of Organization: Materials Science & Chemical Company

Industry: Chemical / Consumer Goods

The Challenge: Rapidly assessing the safety and environmental impact of new materials and formulations for consumer products is critical, but traditional testing is costly, time-consuming, and often conducted late in the development cycle, leading to expensive redesigns or product recalls if issues arise. Regulatory compliance is also a major concern.

The ScieFI Solution: The company adopted **ScieFI's Predictive Toxicology & Environmental Impact Integration** module. This allowed them to perform **multi-scale modeling** of new chemical compounds, predicting their potential toxicity at cellular and organ levels, as well as their **environmental fate & transport** (e.g., biodegradability, persistence in water). Critically, **ScieFI's Robust & Secure Data Fabric**, with its **Blockchain-Enabled Data Provenance & Immutability** and **Granular Access Control**, provided an unalterable audit trail for all safety assessments and ensured IP protection while facilitating secure data sharing with regulatory bodies.

Impact & Benefits: The company could perform proactive safety assessments much earlier in the R&D process, allowing them to iterate on material design to eliminate problematic compounds before significant investment. This reduced safety-related product development delays by 60% and significantly lowered the risk of regulatory non-compliance and costly recalls, enhancing brand reputation and consumer trust.

Key Features Highlighted:

- Predictive Toxicology & Environmental Impact Integration (Multi-scale Modeling, Environmental Fate & Transport Prediction)
- Robust & Secure Data Fabric (Blockchain-Enabled Data Provenance & Immutability, Granular Access Control)
- Regulatory Compliance

This document is provided for information purposes only. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. We specifically disclaim any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document. This document may not be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose, without our prior written permission. To know more, please visit ***www.fijishi.com***

©2025 Fijishi, and/or its affiliates. All rights reserved.