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FROM SUPPLIER DATA TO DIGITAL PRODUCT PASSPORTS: A PACKAGING ADHESIVES USE CASE

ABSTRACT

In the packaging business, accurate and trustworthy product data is increasingly important for sustainability, customer transparency, and regulatory compliance. In particular, the EU Packaging and Packaging Waste Regulation (PPWR) sets extensive requirements for packaging design, material use, and recyclability, while the Ecodesign for Sustainable Products Regulation (ESPR) introduces the framework for Digital Product Passports (DPPs) to enable transparent and standardized product data across value chains.

The “Packaging adhesive” demonstrator addressed this problem by showing how packaging related material and sustainability data can be exchanged digitally, securely, and in a standardized way across the value chain. Using Chem X and Catena X aligned data models, suppliers shared data in a machine readable format without the need for custom system integrations.

At Henkel, incoming supplier data was verified and stored in internal systems, where it was used for product level calculations. The processed data was then used to create a Digital Product Passport for a packaging adhesive, which can be accessed through a user friendly application.

Key Message

The demonstrator clearly shows that interoperable data sharing works: partners can exchange trusted data across different IT systems while maintaining data sovereignty. Adding new suppliers requires minimal effort, enabling scalable, efficient, and future ready data exchange for packaging solutions.