

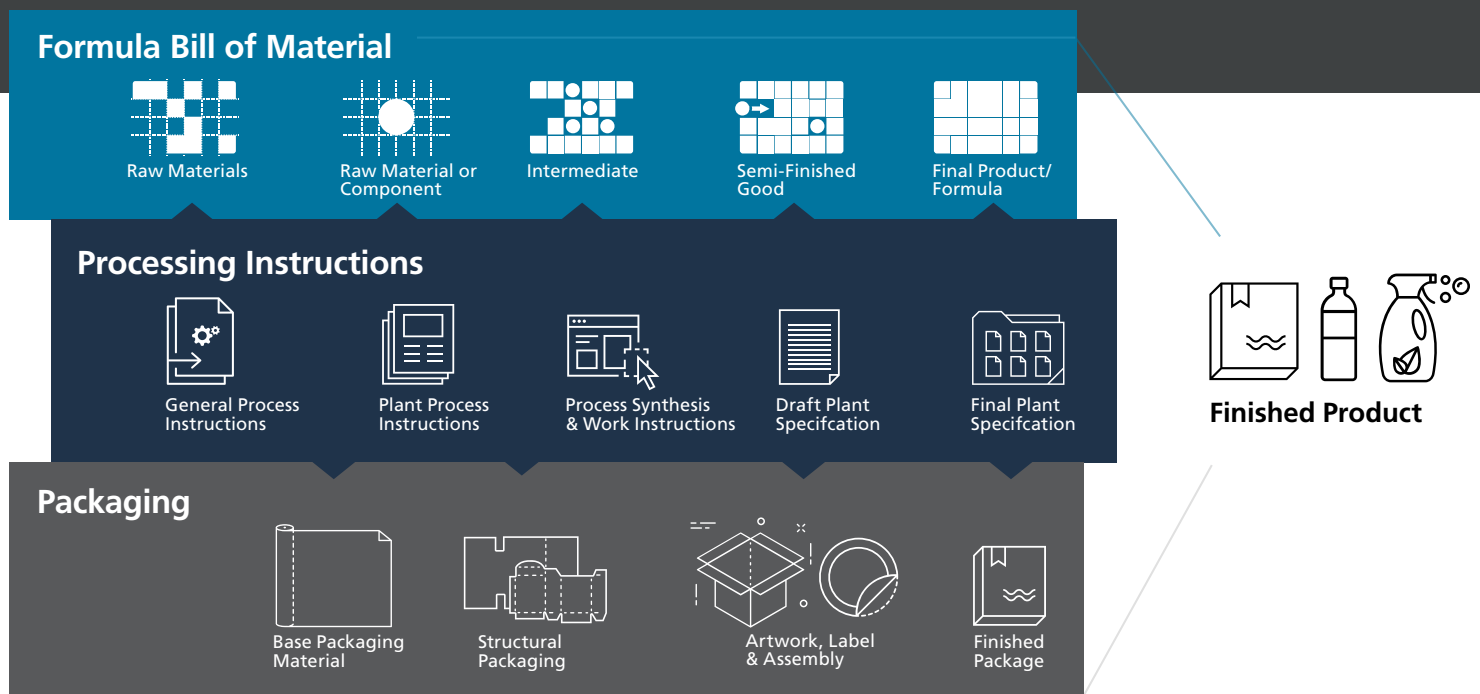
Enabling Integrated Product Lifecycle Management for Formulated Products

In recent years, organizations across industries have implemented product lifecycle management (PLM) for productivity and efficiency benefits, and to drive faster growth from innovation.

However, companies that design and manufacture formulated products such as food, cosmetics, nutritional supplements, etc. face constraints as many **existing PLM solutions manage the product development cycle for the discrete parts of products but offer limited, practical capabilities for building and managing recipes and formulas.**

As a result, **formulation development tasks are often performed in silos outside the PLM solution,** which can lead to:

- Disconnected product design processes and data
- Lack of traceability between the formulated components and the rest of the product design
- Cumbersome and error-prone data transformation from the formulated tools into the PLM design system
- A need for specialty knowledge of the two systems



Kalypso and Oracle can help formulated product manufacturers drive bigger benefits from PLM with a **single, cloud-based PLM platform for concurrent formulated and discrete product development**



for Formulated Product Development

POWERED BY
ORACLE CLOUD

Integrated, leading-practice solution enabling **concurrent formulated and discrete product development in the cloud**

PLM solution with a pre-packaged formulation management add-on to facilitate building formulation products in the cloud

Designed to enable **critical recipe and formula development processes** in conjunction with the rest of the product development lifecycle

Provides a unified data model with the Oracle Product Development (PD) and Product Hub (PH) modules, **eliminating the need for custom integrations**

Built on Oracle Cloud, allowing **a seamless transition with other Oracle Cloud enterprise applications**

Benefits:

- Reduced development cycle time and time to market
- Improved product integrity, data access and accuracy
- Improved product quality
- Simplified data audits and reduced compliance risk
- Improved PLM ROI

Foundational Formulation Capabilities:

- Attribute rollup
- Compliance rollup
- Addition and removal of new materials / intermediates
- Processing steps annotation
- Copy formula for new bills of material (BOM) creation
- Synchronization with Oracle PD and PH structures
- Export of formula to Microsoft Excel for nutrient label (food and beverage), supplement label (vitamins) or MSDS (chemical) creation
- Change notification for updates

Additional Functionality Includes:

- Simpler attribute overrides
- Formula comparison view
- Enhanced change management between formulation and commercial BOMs
- Formula optimization
- Compliance screening
- Modeling of waste and by-products

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