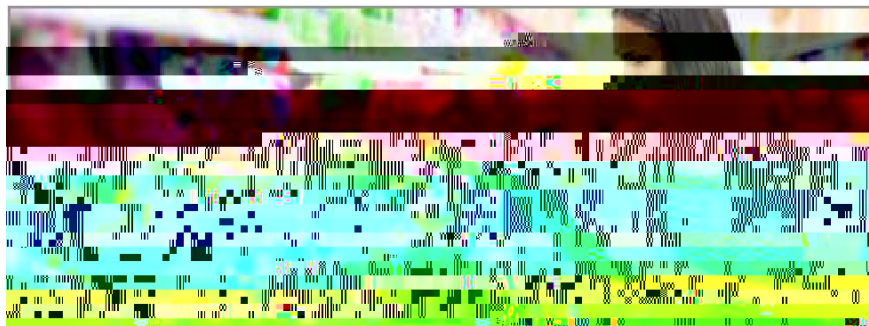


## Bring new products to market, faster and cheaper

- Separation of formulas from finished goods packaging bills of material
- Integration with user defined product physical characteristics
- Dynamic reformulation based upon ingredient characteristics, weight, volume and cost
- Embed QC test, special instructions and costs
- Perform formula "what if" analysis and side by side comparisons
- Employ workflows to gain formula approval
- Offers formula version control with roll-back capability and audit trail

- Focus on formula development rather than finished goods packaging development
- Speed product development and formula approval
- Establish formula admin guidelines and reduce formula proliferation
- Ensure compliance with industry databases and regulatory mandates



Formulation manages the formula specifications of intermediates and products, including co-products and by-products, from product development through production, for chemicals, cosmetics, life sciences and other SDS/MSDS controlled industries.

In a formula, product developers define the ingredients needed to produce a product plus any required QC steps, special manufacturing instructions and labor costs. The ability to split a product formula from the finished good's multiple packaging configurations, offers greater control over the development and maintenance of product formulas.

To ensure that a product formula meets its defined target, in terms of weight, volume or physical characteristics, the Formulation module can dynamically size the formula, changing the quantities of certain ingredients. "What if" scenarios and side by side comparisons of formulas provide drill down analysis of its ingredients, costs and other characteristics.

Formulation offers full security control over intermediate and product formulas, including a user defined workflow approval process. All formula changes and approvals are captured in an audit log. Full version control provides rollbacks to older versions.

Ingredients have certain physical characteristic values, defined in system databases, which are rolled up in the

