

BIOVIA ENGINEUITY ENTERPRISE FORMULATIONS MANAGEMENT

Datasheet

For science-based companies to flourish over the next decade they must make better use of existing intellectual property (IP) to produce new products more rapidly. New product forms, delivery technologies or breakthrough consumer products are dependent on innovators who combine raw materials – under strict regulatory guidelines – into formulations that are safe, stable, efficacious and cost-effective. With BIOVIA Engenuity, the process of creating and managing formulations across the enterprise has never been easier.

CHALLENGES IN FORMULATIONS

A key reason for companies' failing to bring products to market is regulatory non-compliance. Disparate compliance-management tools and processes make it difficult to monitor and adhere to changing requirements. The financial costs associated with delayed product release or, worse, a product recall range from damaging to catastrophic.

In addition to regulatory failures, delayed product introduction results from formula design in a vacuum; that is, when scientists develop formulas in spreadsheets that are siloed across different teams and departments with no easy access to previous formulation attempts. The resulting rework significantly increases time-to-market. Also, using multiple software suites for product development severely limits visibility outside of R&D, especially when product design is not shared with other cross-functional groups.

This approach is unsustainable in today's world where companies incur huge opportunity costs resulting from delaying launches or coming to market second with new products. BIOVIA Engenuity was designed with these challenges in mind. It is an enterprise formulation software that was developed under Good Manufacturing Practice (GMP) guidelines specifically for companies in the cosmetic, Consumer Packaged Goods (CPG) and pharmaceutical industries. BIOVIA Engenuity is an exceptional enterprise solution to build, manage, label and launch real-world formulations (e.g., emulsions, shampoos, lipsticks, rubber compounds, performance coatings, etc.) with all their inherent complexity.

BIOVIA ENGINUITY CAPABILITIES

- **Easy-to-use spreadsheet-like interface:** BIOVIA Engenuity is a comprehensive and powerful solution designed to match the way chemists and formulators already work. New formulations and procedures are quick to create and easy to change with automatic calculations and ingredient summations. Most functions are easy to reach with minimal clicks and no need to load separate modules or software packages.
- **Real-time regulatory compliance monitoring:** BIOVIA Engenuity continuously checks your compliance status. The software tracks the composition of the raw materials, the intended product usage and underlying chemistry of the resultant product. While editing a formulation, if a proposed ingredient or amount violates any applicable regulations, the software automatically flags the issue for review and notes the violation, including country-specific regulations.
- **Regulatory compliance for your product development process:** BIOVIA Engenuity provides full formula security, tracking and change control capabilities, including a full audit trail enabling companies to comply with the FDA's prescribed regulatory requirements for electronic records and signatures. Over its history, BIOVIA Engenuity has successfully completed all software supplier quality audits, including those conducted by leading Fortune 100 companies to support their global rollouts of BIOVIA Engenuity in validated environments.

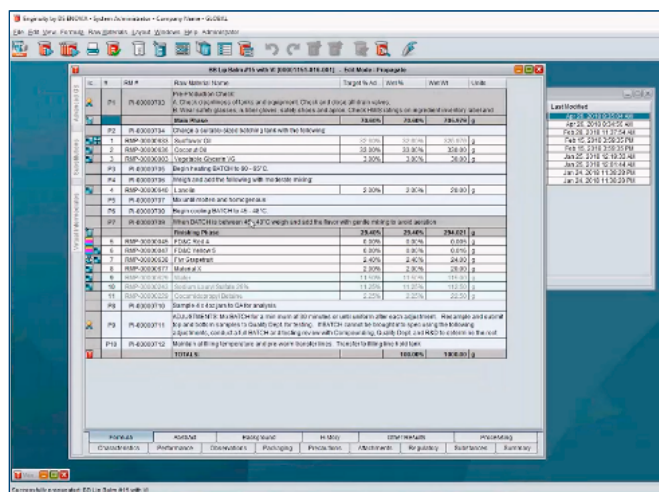


Figure 1. Editing Formulations

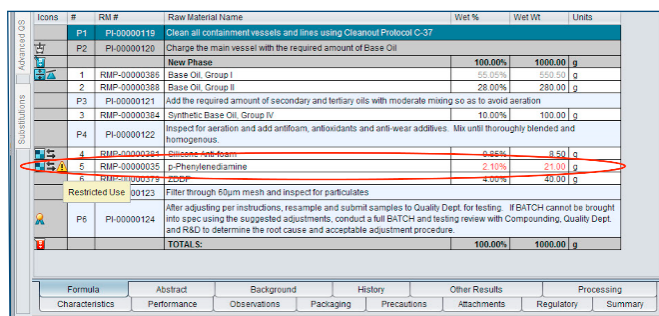


Figure 2. Flagged regulatory violation.

Options	Name	Field	Display	Mode
Raw Material Name	R#	0001151-017-001	0001151-016-001	
Reason For Change				
Main Phase		70.60%	48.60%	
Surfactant Oil	RMP-00000633	32.60%	10.60%	
Coconut Oil	RMP-00000638	33.00%	33.00%	
Vegetable Glycerin VG	RMP-00000603	3.00%	3.00%	
Lanolin	RMP-00000640	2.00%	2.00%	
Finishing Phase		29.40%	51.40%	
FD&C Red 4	RMP-00000645	0.00%	0.00%	
FD&C Yellow 5	RMP-00000647	0.00%	0.00%	
Fht Grapefruit	RMP-00000638	2.40%	2.40%	
Methylid X	RMP-00000677	2.00%	24.00%	
Tide Base - VI	VI-00102	25.00%	25.00%	
Water	RMP-00000629	11.50%	11.50%	
Sodium Lauryl Sulfate 20%	RMP-00000643	11.25%	11.25%	
Cocamidopropyl Betaine	RMP-00000629	2.25%	2.25%	
TOTALS:		100.00%	100.00%	
COST:		\$35.5017	\$67.1817	

Figure 3: Multi-formula edit

The BIOVIA Engenuity solution empowers your product development organization to deliver:

- Risk Avoidance
- Rapid Adoption
- Brand Equity Protection
- Streamlined Regulatory Processes

BIOVIA Engenuity is also part of the Dassault Systèmes portfolio of products. It can complement other BIOVIA and Dassault Systèmes solutions that cover a broad range of business processes—from project and program management to system engineering, product development and regulatory compliance—while also providing dedicated tools for IT professionals.

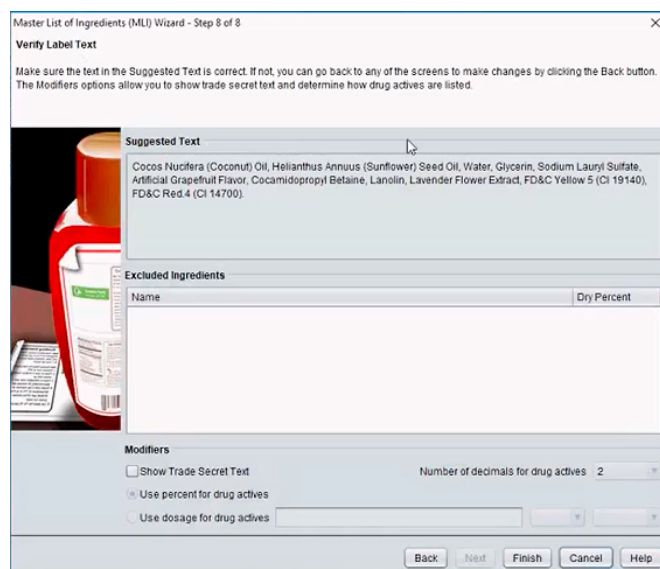


Figure 4. Create Copy Labels

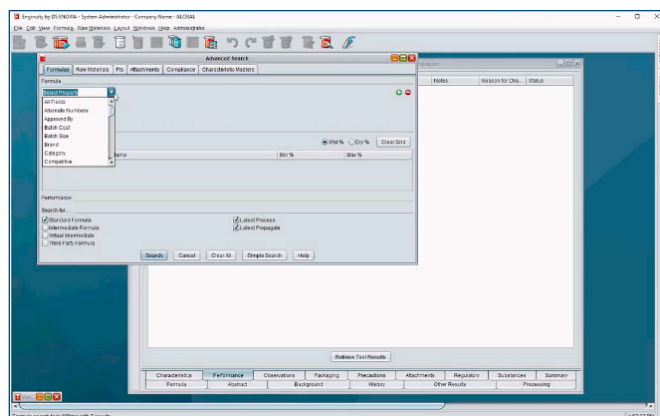
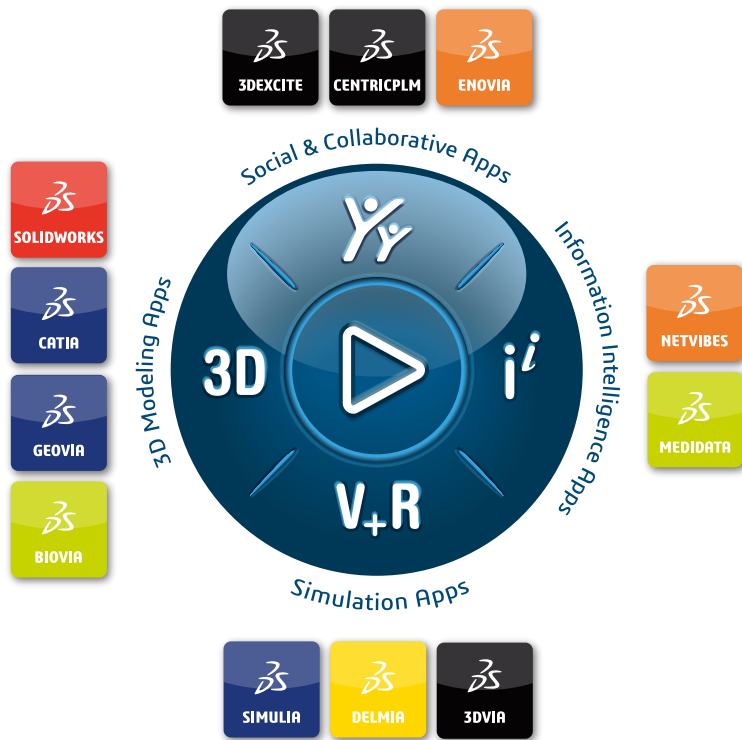


Figure 5. Advanced Search

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Dassault Systèmes, the 3DEXPERIENCE Company, is a catalyst for human progress. We provide business and people with collaborative virtual environments to imagine sustainable innovations. By creating 'virtual experience twins' of the real world with our 3DEXPERIENCE platform and applications, our customers push the boundaries of innovation, learning and production.

Dassault Systèmes' 20,000 employees are bringing value to more than 270,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.

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