

BATCHMASTER® Product Management

BatchMaster®Product Management is a specially-extracted sub-set of BatchMaster's integrated process manufacturing ERP application suite. It provides *“the missing ingredient”* for the R&D or Quality Assurance departments in Tier I ERP systems designed primarily around Distribution and Supply Chain Management. This system can be operated as a stand-alone environment, or fully integrated into your Tier I application with the **BatchMaster Product Management +** option.

BatchMaster®Product Management contains all the functionality required to develop and define products, comprising the following proven BatchMaster modules:

- Inventory Items, full definition including multiple user-maintained costs.
- Formulation, including labor & overhead costs, by-products and co-products, and more.
- Laboratory formulation, allowing on-screen product development to physical properties.
- What-if Costing, providing the facility to design products to target costs.
- Bill-of-Material definition of finished goods, combining formulas with packaging.
- Quality Control definition at every level from raw material / ingredient, to formulas / recipes, to finished products.
- MSDS generation module that can compile any variation of compliance documents.

Comprehensive Inventory Item definition

- ✓ Multiple classification methods.
- ✓ Unlimited units of measure, automatic weight / volume conversions.
- ✓ Material Property specifications and values.
- ✓ CAS Number master file.
- ✓ Material Health & Safety and SARA data.
- ✓ Hazard information and MSDS Paragraphs.
- ✓ Additional MSDS numeric (non-lab calculation) data.

The original and most proven Formula / Recipe Management system

- ✓ Manage losses at formula or line level.
- ✓ Standard instructions maintained centrally.
- ✓ Cost elements at formula, line, or BOM levels.
- ✓ Maintain full revision history with facilities to view, compare with, revert to, and purge prior revisions.
- ✓ Bulk rules-based material substitutions.
- ✓ Secure formulations.
- ✓ Intermediate expansion and Intermediate density roll-up.
- ✓ Attach Standard Operating Procedures.



The Missing Ingredient

Laboratory on-line product design

- ✓ Design of new products on the basis of Ingredient Properties.
- ✓ On-screen Physical Property Analysis, with drill-down to individual material / intermediate properties.
- ✓ Comprehensive industry-specific calculation formulas, or easily design your own.
- ✓ Intermediate property roll-up.
- ✓ Compare physical properties of multiple formulas.
- ✓ Search formulas using Boolean criteria for physical property, Weight or Volume percentages, or QC target values.

“What-if” Costing

- ✓ Design of new products on the basis of Cost.
- ✓ 7 price & cost fields available.
- ✓ Perform product cost analyses for the same formula over multiple packaging BOMs.
- ✓ Adjust target costs or formula quantities.
- ✓ Perform “what-if” costing by manipulating all cost elements.
- ✓ If you are using the production module, calculate and adjust formula losses.
- ✓ Roll up costs for Intermediates and Finished Goods.

Bill of Material definition

- ✓ Define Finished Goods by combining formula quantities with comprehensive packaging bills of materials.
- ✓ Maintain full BOM revision history, with facilities to view, compare with, revert to, and purge prior revisions.
- ✓ Multi-level BOM explosion, bi-directional - explode down from a Finished Good, or up from a specific material.
- ✓ Auto-check for invalid intermediate loops.

Flexible Quality Control

- ✓ All QA testing specific to Item.
- ✓ Different result types for the same test for different items.
- ✓ Supports Numeric, Alpha or Pass/Fail results.
- ✓ Sampling plans or continuous testing.
- ✓ Define QA tests for ingredients, packaging, formulas or finished goods if desired.
- ✓ Complete HACCP support.
- ✓ Record and report on QC test results if you are using the production module - test formula in-process or on finished goods after filling, or both.

MSDS / Compliance

- ✓ Assign paragraph statements at many levels - Material, Material Class, Formula, Formula Class, Material Hazard, or MSDS Template.
- ✓ Maintain Hazard types, and their print ranges and criteria.
- ✓ Multiple language support for paragraphs and MSDS formats.
- ✓ Layouts easily maintained in Microsoft. Dot format.
- ✓ Paragraph and Numeric Calculation overrides.
- ✓ Unlimited number of report formats.
- ✓ Define data for purchased intermediates.
- ✓ Generate MSDS's from any of:
 - ✓ MSDS Customer History.
 - ✓ Raw Material.
 - ✓ Master Formula.
 - ✓ Finished Good.
 - ✓ If production module is used, additionally from:
 - ✓ Production batch Formula (actual used),
 - ✓ Production batch Finished Goods.
- ✓ Generate Mailing Labels.

Personalize your system with BatchMaster's no-cost "On-demand" vertical industry options to meet the specific requirements of your industry sector.

Hazard Analysis & Critical Control Points (HACCP)

- ✓ Listing the products and the intended use.
- ✓ Processing Flow Chart.
- ✓ Identification of Hazards.
- ✓ Selection of Critical Control Points and their Critical Limits.
- ✓ Setting Monitoring Procedures and their corrective actions.

Allergen Management

- ✓ Tracks Allergens at Ingredient level.
- ✓ Tracks legal status, Natural, Organic, GMO free, and much more.
- ✓ Calculates compound Non-Flavored Ingredients, Evaluates overall product allergen levels and risks.
- ✓ Records all physical properties including transmittance, absorbance, titratable acidity and many more, details Label statements, Chemical indices, safe storage, shelf life and more.

Co-Products

- ✓ Manages a 'Family' of related output items from a single production batch.
- ✓ Percentage allocation of input costs across output products based on user-defined rules, e.g. 40% of output is first grade, but has 80% of input costs allocated.

Nutritional Reporting and Labeling

- ✓ Plays a vital role as it is a mandatory requirement for food industry.
- ✓ Analyzes the nutritional content of ingredients using a standard USDA or alternative ingredients database.
- ✓ Provides nutritional analysis of recipe ingredients for simple, quick product information analysis and product labeling.
- ✓ Meets the compliance standards of US and international labeling requirements.
- ✓ Five different formats of reports can be generated, each satisfying a distinct need.

Formula Security

- ✓ Enhanced password-protection of active recipe base.
- ✓ Requires supervisory password to change recipes by any means.



The Missing Ingredient

Extend to **BatchMaster Product Management +** to include:

- Project and Sample Management.
- Full Production Management.
- eConnect integration to your Tier I ERP system.

Sample and Project Management

- ✓ Comprehensive management of all new product projects.
- ✓ Maintains “Laboratory only” inventory.
- ✓ Assigns projects.
- ✓ Approval process to release new recipes to production
- ✓ CRM tracking of all project-related correspondence
- ✓ Multiple iterations of a Recipe prior to final release
- ✓ Tracks samples sent to customers and the feedback from them.

“No Risk” Production Management

- ✓ Extensive Batch-sizing methods.
- ✓ Multiple-run batch options.
- ✓ Comprehensive reporting.
- ✓ 'Trial Close' to minimize errors.
- ✓ Roll-back of incorrect batch closes.
- ✓ Partial / Full closing.
- ✓ Consistent and coherent Lot Tracking System
- ✓ Compliance to meet all requirements

eConnect integration tools

- ✓ Provides API calls to and from BatchMaster functions and data.
- ✓ Allows authorized external users or applications to access and update BatchMaster databases.
- ✓ Define security levels within BatchMaster.
- ✓ Proven solution for integration with Oracle® databases.
- ✓ Allows access to BatchMaster modules via the Web.



The Missing Ingredient

For more information about BatchMaster Software, and BatchMaster Manufacturing for SAP Business One, contact sales@batchmaster.com or 949-583-1646.

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