CHEMICAL MANUFACTURING

BENEFITS:

- **Manage complex variables.** Manage item-specific materials characteristics such as potency, expirations, lot control, and units of measure for formula development, production planning, quality control, and inventory management.

- **Automate and streamline processes.** Eliminate manual processes and data reentry when you can connect supply chain information with production processes, alter formulas on the fly, and manage safety and hazard information with ease.

- **Make confident decisions.** Access real-time data on inventory, yields, schedules, capacity, and costs for accurate accounting, improved profitability management, and fast response to new opportunities.

- **Connect people with real-time information.** Give people access to the specific data their work requires. Link trading partners to inventory, product, and order information.

- **Achieve low total cost of ownership (TCO).** Build on existing investments in Microsoft® technology. Implement quickly, and take advantage of a flexible solution that can scale and adapt as your business grows.

Microsoft Dynamics NAV

Enhance management of complex production flows and gain insight into your operations with a business management solution tailored to the specific needs of process and mixed-mode manufacturers. Microsoft Dynamics™ NAV can help you optimize inventory, increase productivity, comply with customer and regulatory demands, and drive continuous improvement.

Process and mixed-mode manufacturers face unique challenges in the management of raw materials, production processes, and regulatory compliance. Successfully meeting these challenges is critical to profitability and growth. Unfortunately, many chemical manufacturers find themselves hampered either by business management solutions designed primarily for discrete manufacturing, or by isolated production management applications that don't interface well with corporate systems and data.

Microsoft Dynamics NAV solutions for chemical manufacturing resolve this dilemma with an end-to-end business management solution built with process manufacturers in mind that is flexible enough to adapt to the variables and requirements of complex chemical manufacturing.

With a Microsoft Dynamics NAV chemical manufacturing solution, you can increase the speed and automation of your manufacturing operations. Your people can smartly manage recipes or formulas, raw materials inventories, by-products, co-products, and yield, which helps to improve manufacturing agility and make the most of every component in the production process.

Microsoft Dynamics NAV integrates robust process manufacturing functionality with supply chain, customer relationship management (CRM), and financial information and processes to help your people fuel productivity, make confident decisions, improve profitability, and drive your business forward.

Microsoft Dynamics NAV

FEATURES:

Flexible, centralized formula management	Manage formulas and recipes centrally to help ensure people across departments have the most up-to-date versions. Handle alternate formulas and recipes and quickly develop new formulas for formulate-to-order production or based on raw materials characteristics. Track and compare yields, and take advantage of integrated management of by-products and co-products to optimize profitability.
Production results over time by formula tracking	Identify lower-yield or higher-cost formulas over time. Determine the effectiveness of formulas and understand discrepancies between forecasted and actual production.
Flexible planning and scheduling tools	Plan and schedule production using make-to-stock, make-to-order, or formulate-to-order modes. Define routings to include cure time and quickly adjust plans or product mix to respond to changes based on real-time updates about inventory, orders, quality testing results, and production capacity status. Identify material shortage before a batch is sent to the floor and help avoid waste and delays.
Streamlined compliance documentation and processes	Streamline the dissemination of Material Safety Data Sheets (MSDSs), Certificates of Analysis (COAs), or other critical product and ingredient information to customers, partners, or regulatory agencies. Manage lot traceability and enable adoption of radio frequency identification (RFID) systems.
Consolidated financial information	Reduce the time it takes to prepare month-end-close reports. Link back to source data to see the costs for specific batches and raw materials.
Customizable item and inventory characteristics and dimensions	Define different inventory attributes and dimensions and easily add multiple fields for item or lot characteristics. Track expirations and shelf life, specify materials using catch weights or alternate item units of measure, help ensure cradle-to-grave traceability, and understand the dynamics of stocking, replenishment, and lot management.
Comprehensive production cost allocation and analysis	Understand, track, and analyze material and production costs relative to various formulas, manufacturing processes, and packaging options to help ensure full allocation of costs to product pricing, maximize operational efficiency, and focus on the most profitable products and markets.
Integrated quality control capabilities	Streamline quality control monitoring and track quality information about any given item, including test status, quarantines, or product downgrading. Automate communication of quality information to customers or raw material suppliers.
Comprehensive business intelligence	Quickly analyze and share real-time business information using familiar desktop tools such as Microsoft Office Excel®. Set up key performance indicators and track trends for fast response to changing conditions.

For more information about Microsoft Dynamics NAV, visit **www.microsoft.com/dynamics/nav**.

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