

Process Advantage For Microsoft Dynamics NAV

Industry Solution From Micro DataNet

BENEFITS

- Manage Complex Variables**

Manage item-specific materials characteristics such as lot & sub lot control, variable units of measure for Formula Development and Quality Assurance.

- 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**

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.

Process Advantage for Dynamics NAV has been specifically designed to meet the unique requirements of Process Manufacturers who are being challenged by the rigors of managing inventory, quality assurance issues and regulatory compliance. Currently many process manufacturers are trying to manage their operations with software designed for discrete manufacturers. Clearly the unique attributes and requirements of a process manufacturer are not being met with software developed for Discrete and not Formulas Based Manufacturing.

Process Advantage for Dynamics NAV resolves 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 Formula Based Manufacturing.

PRODUCTION ORDER SAMPLE

Item No.	Description	Quantity per Package	Unit of Measure	Starting Date	Starting Time	Ending Date	Ending Time	Due Date
CT308	HDSOMARTY OIL	0.008	KG	12/31/08		0.000		12/31/08
	Health Hazard: 0. Little or no hazard							
	Flammable Hazard: 0. Not flammable							
	Reactivity Hazard: 0. Normal, stable							
	Special Hazard: Oxidizer							
CT309	TRICHLORO OIL	0.012	KG	12/31/08		0.000		12/31/08
	Health Hazard: 3. Extremely dangerous - use full protective clothing							
	Flammable Hazard: 2. Ignites when moderately heated							
	Reactivity Hazard: 1. Hazardous when heated; explosive - use hose streams from distance							
	Special Hazard: Oxidizer							
CT311	CHROMICACID 6 USLSLCK	0.001	KG	12/31/08		0.000		12/31/08
	Health Hazard: 0. Little or no hazard							
	Flammable Hazard: 0. Not flammable							
	Reactivity Hazard: 0. Normal, stable							
	Special Hazard: Oxidizer							
	Special Hazard: Corrosive							
	Special Hazard: Irritant							
	Special Hazard: Dust/Explosive							
Operation No.	Type	No.	Description	Starting Date	Starting Time	Ending Date	Ending Time	
100	M	M100	Make Preparation	12/31/08	10:00:00 PM	12/31/08	10:00:00 PM	01/01/09
			Draw the MSD data, customize the formula and the resulting job.					
			Zero the balance!					
110	M	M100	Formulation at 400 Lbs	12/31/08	10:00:00 PM	12/31/08	10:00:00 PM	
			Identify materials to be taken the fragrance off to 45 degrees C.					
			Add components and mix with proper agitation and isolation results.					
			Hold for process step 100					
120	M	M100	Phase II Reaction	12/31/08	10:00:00 PM	12/31/08	10:00:00 PM	
			Add ingredients					
			Adjust temperature to 70 degrees C.					
130	M	M100	Combine ingredients	12/31/08	10:00:00 PM	12/31/08	10:00:00 PM	



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

Process Advantage for Dynamics NAV integrates robust process manufacturing functionality with supply chain, financial information and processes to help your people fuel productivity, make confident decisions, improve profitability and drive your business forward.



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.
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.
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.
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 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.
Customize 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.
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.



Micro DataNet has the knowledge, experience, and expertise required to develop a Microsoft Dynamics NAV solution that fits the way you do business and that complies with the industry requirements specific to your region and market. We speak your language and appreciate the complexities of your processes.