

Microsoft Dynamics 365 for Chemicals

Benefits

HELP MEET QUALITY, SAFETY, AND COMPLIANCE REQUIREMENTS. Document standard processes and track operations to support detailed reporting requirements.

ACHIEVE OPERATIONAL EXCELLENCE. Maximize yields and reduce energy costs while simultaneously achieving quality standards.

DETECT AND ADDRESS EXCEPTIONS EARLY. Traceability, lot requirements, production statistics reporting, input-driven process specification, and change management capabilities can help you deliver the highest possible quality and support recall procedures.

MANAGE INVENTORY WITH PRECISION. Minimize overruns and under-runs and use shelf life planning to consider expiration dates during production and distribution.

RESPOND RAPIDLY TO CHANGING MARKET CONDITIONS. Predict the impact of changes in perational costs or production capacity and quickly make adjustments to minimize disruptions.

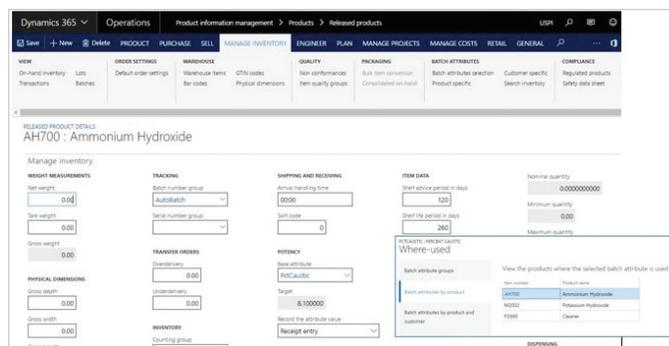
MAXIMIZE YOUR IT INVESTMENTS. Tight integration with other Microsoft products extends Microsoft Dynamics 365 capabilities to help ensure a fast return on investment.

MICROSOFT DYNAMICS 365 FOR FINANCE AND OPERATIONS (DYNAMICS 365) CAN PROVIDE CHEMICAL MANUFACTURERS WITH TOOLS TO HELP CONTROL AND MAXIMIZE ASSETS, MINIMIZE OPERATING COSTS, AND MONITOR THE IMPACT OF DECISIONS ON ORDERS, PRODUCTION, INVENTORY, AND DISTRIBUTION.

Effectively manage all the variables involved in engineering and delivering products that follow custom formulas. Microsoft Dynamics 365 provides you with insight into your entire operation so you can improve capacity and drive continuous process improvement. From a simple user interface, you can define, manage, and cost multiple outputs, such as coproducts and by-products, from a single production process, and always know the correct inventory status for any given item.

Microsoft Dynamics 365 also provides integrated functionality for handling procurement and accounting, helping you comply with regulatory requirements, and enabling communication across your organization. This highly adaptable business management solution provides the tools to help you achieve operational excellence.

If you have deeper chemical industry requirements, Alithya has long-term industry experience and can help you address deeper challenges like managing the purchase price for potency items based on the level of active ingredient; managing the inventory levels of potency items; batch order balancing or dispensing recommendations based on raw material ingredients potency; lot characteristics inheritance; scheduling based on desired product sequencing on critical resources so as to minimize changeovers, and more.



Configure active ingredients as potency items and review inventory based on potency concentration.

Features

APPROVED VENDOR CAPABILITY	Manage the vendor approval process per item with effective and expiration dates per item to ensure proper screening and compliance, and establish multi-level pricing for approved vendors.
ATTRIBUTE TRACKING AND DYNAMIC FORMULA ADJUSTMENT	Define and maintain an unlimited number of qualitative and quantitative attributes at the product and lot levels. Adjust formulas based on the actual characteristics of input materials to ensure consistent quality of final products.
BATCH BALANCING	Allow production formulas to generate adjusted pick lists with quantities based on available lots of active (potency) ingredients, which may adjust other ingredient quantities automatically to insure the correct concentration of active ingredients and offsetting materials.
BATCH DISPOSITION	Restrict certain processes from using certain lots of inventory while being able to allow other processes from using or having visibility to the same. For example when inventory is newly received into the warehouse, it may have to be put on a temporary hold from shipping but should be available or visible for planning as being on hand or for customer reservations.
BEST-BEFORE DATING	Know the correct inventory status for any given item and ship the right lot combinations to the specific ship-to location. Calculate lead times and look at available shelf life on a lot-by-lot level, enabling customer service to ship lots that arrive with the correct shelf life remaining. Proactively manage safety stocks based on seasonality and pull shelf life-challenged products for an overall reduction in charge backs and customer service issues.
BULK AND PACK PLANNING	Produce against provided or regulated batch sizes, and plan packaged finished goods to fully consume produced bulk product to increase yields and reduce wastage.
CATCH WEIGHT AND UNITS OF MEASURE (UOM)	Track and manage inventory simultaneously using two different UOMs, such as weight and rolls, or area and pieces. Use product current measurements rather than UOM conversion routines to increased visibility of inventory. Capture and use-as-produced "weights" or measurements to ensure accurate inventory management and costing.
CENTRALIZED QUALITY CONTROL AND REGULATORY SUPPORT	Use integrated quality control and lot traceability to link raw materials through each operation of the production process to final delivery at the customer site.
CO-PRODUCT/BY-PRODUCT MANAGEMENT	Support co- and by-product tracking to help improve decisions. Analyze co- and by-product attributes and costs, and credit their values to the appropriate finished goods.
CUSTOM ITEM AND DIMENSIONALITY STRUCTURE	Define multiple inventory dimensions and gain insight into the dynamics of your stocking practices, including packaging codes, variations to the main item, lot management, and inventory status. Conduct comprehensive "where-used" analysis, including alternate formula and recipe tracking.
CUSTOM PRODUCT FORMULA AND PACKAGING CAPABILITIES	Increase packaging flexibility by defining effective units of measure. Enable customers to request multiple quality specifications per product while maintaining inventory visibility. Support highly flexible configurations and packaging types while combining similar products in production to improve machine utilization.
DEMAND DRIVEN SUPPLY NETWORK	Model and manage an unlimited number of inputs and outputs through recipe and formula management system. Define all of the resources of production including ingredients, co-products and by-products, machine, labor, utilities, and quality assurance variables.
DETAILED PRODUCTION COST ANALYSIS	Analyze and monitor production cost and requirements for each component of a sales order using graphical representations of multilevel bill of materials.
ENHANCED PICKING	Pull inventory in optimal sequence, employing "best before" management, and enabling customer service to ship lots that arrive with the correct amount of shelf life remaining. Employ either first expiry/first out (FEFO) or first in/first out (FIFO) calculations for inventory reservation and picking, reducing inventory and eliminating waste.
LOT INHERITANCE	Configure items in a manner where their products qualitative and quantitative characteristics and shelf life information can be inherited by the manufactured items from their ingredients.
REWORK	Blend in rework using formulas in Dynamics 365 and help save on manufacturing costs.
VARIABLE INVENTORY AND ORDER TRACKING	Monitor inventory using multiple units of measure to manage inventory units as well as packaging units. Track order status using real-time updates on net purchasing, production and capacity requirements, and graphical symbols for each level of the formula. Use batch disposition codes to determine the availability of inventory for reservation, picking or shipping transactions of various inventory transactions.
YIELD PLANNING AND TRACKING	Establish standards for yield using formulas and then using Microsoft reporting tools, track and report actual yields against those standards to quickly identify out-of-tolerance conditions, isolate the cause, and take corrective actions.