

# QUADEXX® FORMULATION AND DISPENSING SYSTEM CUTS PLANT'S CHEMICAL EXPENDITURES BY 20%

**PROBLEM** A large pork slaughter and processing plant was purchasing cleaning chemicals from an Ecolab competitor. Employees would mix and dispense their own chemicals as needed, and would frequently create their own “cocktails” by mixing chemicals in formulations that were not approved by the chemical labels. As a result, employees were frequently over-using chemicals, significantly driving up the plant’s cleaning and sanitation costs.

**SOLUTION** Plant management partnered with Ecolab to install a Quadexx® dispensing system and implement appropriate controls to help ensure compliance with chemical labeling and usage instructions.

After surveying the plant’s current chemical usage and cleaning procedures, Ecolab worked with management to develop and set appropriate limits for chemical usage within the Quadexx system. Each sanitation employee was assigned a username and password for the Quadexx, and was required to log into the system to dispense the appropriate amount and concentration of chemical for the cleaning applications that they were assigned to perform.

In addition to limiting the abuse of the system and restricting employees’ ability to create off-label formulations, the Quadexx system enabled the plant to track the employees’ chemical usage to easily and quickly spot abuses of the system. As an added benefit, the system helped improve worker safety by eliminating the hazardous job of dispensing and mixing concentrated chemicals with water to create the cleaning solution by automating the process and ensuring that proper concentrations were consistently dispensed by the system.

**RESULTS** As a result of the installation of the Quadexx system, this customer has seen a dramatic cost savings compared to their previous supplier due to the elimination of significant waste and better dispensing control. The plant’s chemical spending in the year following the installation of the Quadexx system was down significantly from the prior year. In addition, plant management was able to spend more time focused on other initiatives, such as improving product shelf life and reducing overall bacterial counts through improvements in overall plant sanitation.

# CASE HISTORY

## Quadexx®

### CUSTOMER VALUE ASSESSMENT

- The Quadexx system helped eliminate overuse by limiting plant employees' access to chemical drums and dispensing chemicals in appropriate concentrations.
- Improved worker safety by eliminating the need for employees to mix hazardous chemicals on site.
- A comprehensive and improved overall sanitation program helped the plant realize reduced microbial counts and saw cleaning results by ensuring proper concentration and auditing sanitation employees' chemical usage against historical volumes.

### RETURN ON INVESTMENT

Prior to partnering with Ecolab and the installation of the Quadexx system, the plant was significantly over-using chemicals during cleaning and sanitation. As a direct result of the Quadexx system's control mechanisms, the plant was able to reduce annual chemical expenditures by over 20%, in addition to the benefits of improved cleaning results and increased worker safety.

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