Overcoming Challenges on the Production Floor

How Ecolab can optimize your production processes and help you achieve significant savings of time and expense

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Overcoming Challenges on the Production Floor

In the fast-paced world of personal care manufacturing, staying ahead of the curve is essential.

Ecolab's innovative solutions are designed to challenge the status quo, offering cost savings, efficiency, and peace of mind.

This plant floor interactive schematic showcases seven examples of how you can optimize your production processes and achieve significant savings of time and money.

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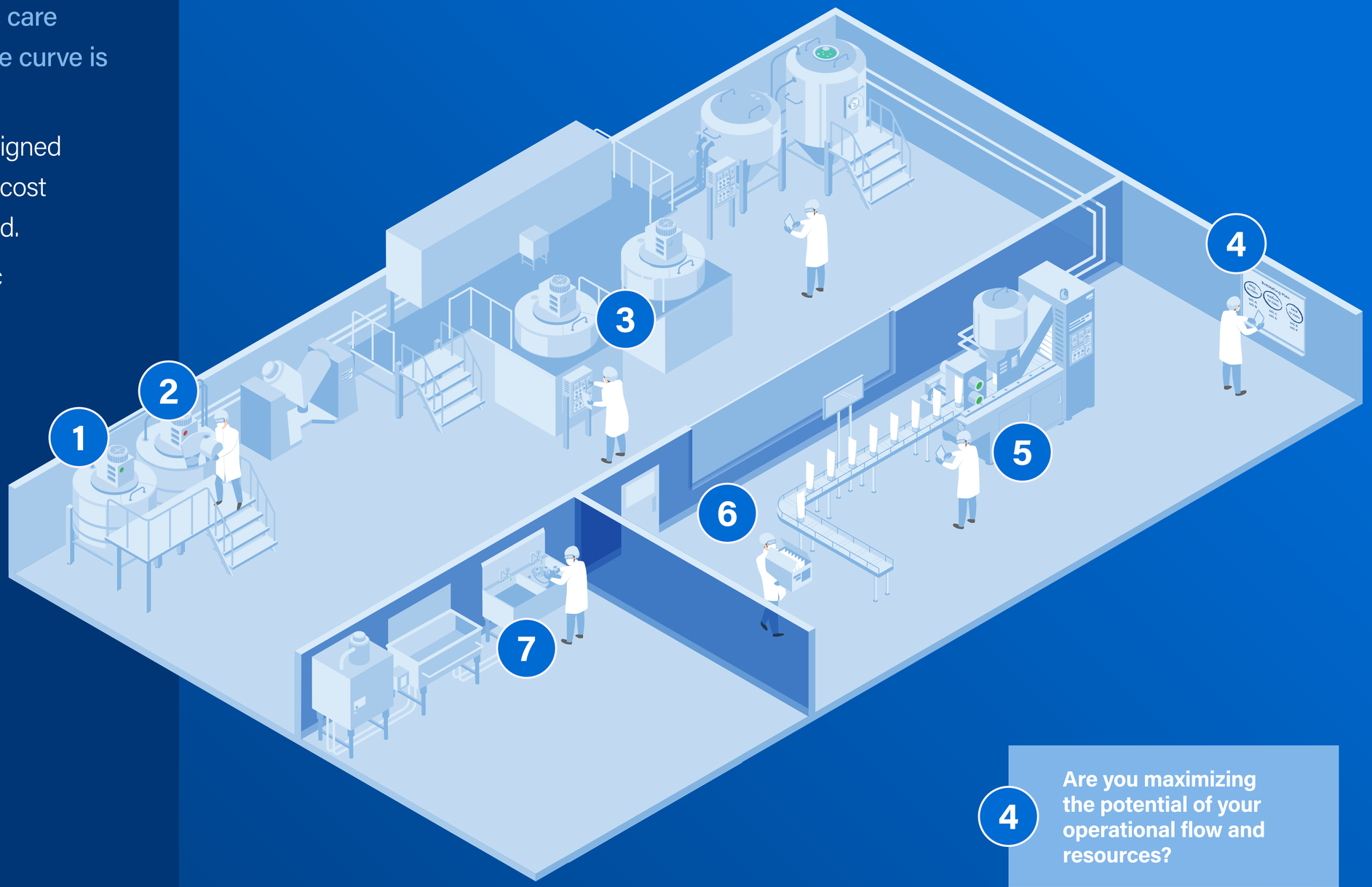

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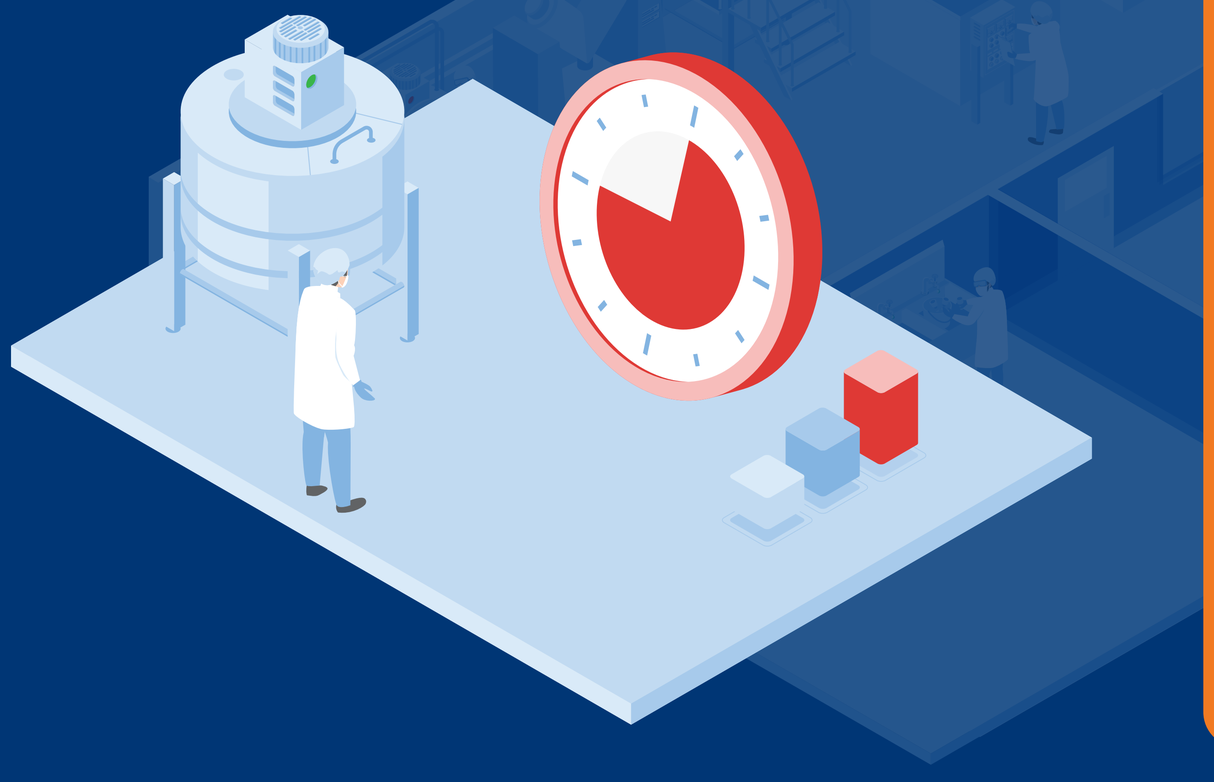
1

Is your current cleaning regime holding you back?



Common challenge

Manual cleaning is still a dominant method of cleaning within the industry, but this method may limit your facility's ability to optimize its labor and uptime. Manual cleaning can pose safety hazards for workers and eliminating stubborn residues becomes a much more labor intensive and time-consuming task. Additionally, the nature of manual cleaning means you are prone to operator variability and therefore increases your risk.

See solution

1 Is your current cleaning regime holding you back?

Consider a better option

Ecolab technical experts can help optimize your cleaning and sanitization regime. By adopting more efficient and automated cleaning practices, manufacturers can minimize risks and help ensure cleaner equipment. Streamlined protocols not only enhance product integrity but also save time and resources.

How we add value

1

Is your current cleaning regime holding you back?

How we add value

With Ecolab, you can optimize your current cleaning practices, ensure cleaner equipment, reduce risk, and:

SAVE TIME & RESOURCES

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ECOLAB

2

Are solvents, caustics, and RMs really the best chemistries for your operations?

Common challenge

Traditionally, the industry has relied on solvents, standard caustics, and raw materials for cleaning. However, with new generation formulations and increasingly difficult-to-clean ingredients, these methods are falling short. Not only do they pose risks such as equipment corrosion and safety hazards for workers, but they also fail to achieve the necessary levels of cleanliness. This leads to repeated cleanings that consume excessive amounts of water and time.

See solution

2

Are solvents, caustics, and RMs really the best chemistries for your operations?

Consider a better option

Consider using detergents, such as those from Ecolab, specifically designed to address the unique challenges of cosmetic and personal care manufacturing. These advanced cleaning solutions provide targeted efficacy against various residues, ensuring thorough and efficient cleaning.

How we add value

2

Are solvents, caustics, and RMs really the best chemistries for your operations?

How we add value

By switching to Ecolab's **Maxi** alkaline detergent, one of our customers* were able to:

REDUCE DOWNTIME BY 225 HOURS ANNUALLY

Back to overview

Source:* ***Click here* *to read the entire case study. The results in this case study are specific to this individual customer and may vary for other customers based on factors and circumstances in their operations.*

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3

Is water alone enough to ensure thorough cleaning and sanitization?

Common challenge

Heated water and steam have been a go-to method for cleaning and sanitization; however, this approach comes with drawbacks, including increased energy consumption, longer cleaning times, and the risk of thermal stress on sensitive equipment, and increased risks to worker safety.

See solution

3

Is water alone enough to ensure thorough cleaning and sanitization?

Consider a better option

Using specialized detergents during both cleaning and sanitization steps offers a more reliable solution. Formulated for optimal performance with industry-specific soils, these detergents enable operators to effectively and efficiently remove stubborn residues, achieving cleanliness the first time and eliminating the need for re-cleanings. After cleaning, process sanitizers can effectively control microbial contamination. This comprehensive approach reduces energy costs, shortens cleaning time, minimizes the risk of equipment damage, and reduces the need for worker exposure to extreme temperatures.

How we add value

3

Is water alone enough to ensure thorough cleaning and sanitization?

How we add value

By switching to Ecolab's **Oxonia Active** sanitizer, one of our customers* saw:

92% REDUCTION
IN SANITIZATION TIME

100% REDUCTION
IN THERMAL ENERGY USAGE

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Source:* ***Click here* *to read the entire case study. The results in this case study are specific to this individual customer and may vary for other customers based on factors and circumstances in their operations.*

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4

Are you maximizing the potential of your operational flow and resources?

Common challenge

In this dynamic market, production faces many competing priorities: capacity utilization, maximizing throughput, improving agility for large- and small-scale runs, and cutting costs. Amidst these priorities, thoughtful cleaning regimes and validation plans are often deprioritized, which may actually hinder your ability to meet those goals.

See solution

4

Are you maximizing the potential of your operational flow and resources?

Consider a better option

Technical experts, like those at Ecolab, can assist in designing bespoke cleaning regimes and validation packages that maximize efficiency by grouping products based on formulation and cleanability, and ensuring you validate batches based on worst-case ratings within these product groups. Effective bracketing is essential for maximizing efficiency, as it defines the optimal times for implementing cleaning cycles. By taking a proactive approach to cleaning considerations when production planning, you can minimize disruptions, reduce cleaning frequency and keep operations running smoothly.

How we add value

4

Are you maximizing the potential of your operational flow and resources?

How we add value

With bracketing, campaigning and other cleaning in place (CIP) optimization practices, one of our customers* was able to:

REDUCE

CIP CYCLE TIME BY 62%

NUMBER OF VALIDATION PACKAGES BY 80%

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Source:* ***Click here* *to read the entire case study. The results in this case study are specific to this individual customer and may vary for other customers based on factors and circumstances in their operations.*

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5

Is relying on paper-based logbooks hindering your compliance and quality efforts?

Common challenge

In cosmetic and personal care manufacturing, high-quality cleanliness and compliance standards are vital to protecting end consumers. However, traditional paper-based Standard Operating Procedures (SOPs) and tracking methods are often tiresome, prone to errors, and lead to inefficiencies. Miscommunication and data loss can easily compromise quality and safety.

See solution

5

Is relying on paper-based logbooks hindering your compliance and quality efforts?

Consider a better option

Switching to a **digital logbook** provides visual instructions using various media and easy tracking. With real-time access, automated version control, and instant retrieval, digital solutions enhance accuracy and streamline compliance documentation. This shift not only minimizes human error but also boosts productivity across teams.

How we add value

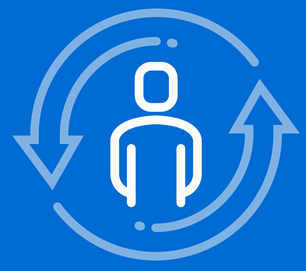
5

Is relying on paper-based logbooks hindering your compliance and quality efforts?

How we add value

Switching to a **digital logbook** can boost accuracy, reduce errors, and:

ENHANCE YOUR SITE'S PRODUCTIVITY



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Are paper-based systems holding back your batch management and execution?

Common challenge

Even with the ever-increasing predominance of digital in our daily lives, paper-based approaches to batch management and execution persist. Accompanying this paper-based approach is poor data integrity and accessibility, a higher risk of human error, and an inability to monitor and optimize your process real time.

See solution

6

Are paper-based systems holding back your batch management and execution?

Consider a better option

A **Batch Manufacturing Execution System (MES)** offers a solution that can help. A digital MES minimizes manual errors and entries, reducing downtime significantly. With features such as advanced planning and real-time production scheduling, you can ensure that manufacturing processes are optimized for peak performance. Detailed audit logs provide comprehensive documentation, allowing for thorough tracking and analysis of each production step. Real-time monitoring and alerts enable teams to respond immediately to any deviations, ensuring that resources are allocated effectively, and potential issues are addressed promptly. This holistic approach not only improves productivity but also ensures that your manufacturing operations run smoothly and efficiently.

How we add value

6

Are paper-based systems holding back your batch management and execution?

How we add value

Implementing a **Batch Manufacturing Execution System (MES)** can drive productivity, increase your compliance, and:

ENHANCE
OPERATIONAL
EFFICIENCY

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7

Are standard cleaning agents truly meeting your specific soil needs?

Common challenge

Cleaning out of place (COP) can present challenges when using standard solvents or all-purpose cleaners. While these solutions may seem convenient, they often fall short in effectiveness and safety. They can leave residues that affect product quality, require extended manual scrubbing of parts, and expose operators to harsh chemicals that shouldn't be handled manually.

See solution

7

Are standard cleaning agents truly meeting your specific soil needs?

Consider a better option

Specialized detergents explicitly designed for cosmetic and personal care residues offer a superior alternative to standard solvents and all-purpose cleaners. These cleaning agents are formulated to tackle the unique demands of cosmetic and personal care manufacturing, ensuring thorough cleaning without compromising employee safety or efficiency.

How we add value

7

Are standard cleaning agents truly meeting your specific soil needs?

How we add value

When switching to Ecolab's **Maxi Plonge** detergent, one of our customers* saw:

79%
REDUCTION
IN WATER USAGE

63%
IMPROVEMENT
IN CLEANING CYCLE SPEED

Back to overview

Source:* ***Click here* *to read the entire case study. The results in this case study are specific to this individual customer and may vary for other customers based on factors and circumstances in their operations.*

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How Ecolab can support your Personal Care & Cosmetic Manufacturing

Ecolab provides specialized cleaning products, digital solutions, and expert consulting for the personal care and cosmetic industries. Their range includes cleaners and sanitizers tailored for challenging soils, while the CLEEN platform automates cleaning validation and optimizes operations. Additionally, Ecolab's Global Technical Consultants offer guidance on contamination control and regulatory compliance to enhance operational efficiency.

To request a free consultation with Ecolab's Cleaning Experts:

CLICK HERE

Chemistry

Ecolab offers a comprehensive range of cleaners, sanitizers, and additives specifically formulated for the personal care and cosmetic industries. These products are designed to tackle difficult soils such as pigments, emulsions, waxes, and gels, ensuring thorough cleaning and sanitation.

Digital

CLEEN by Ecolab is a digital platform that enhances manufacturing operations for personal care products. It automates cleaning validation, digitizes standard operating procedures (SOPs), and provides real-time insights to optimize operations, reduce compliance risks, and drive quality improvements.

GTC Cleaning Experts

Ecolab's Global Technical Consultants (GTCs) are a team of experienced pharmaceutical microbiologists who provide expert guidance on contamination control strategies. They help organizations meet regulatory requirements, optimize cleaning processes, and improve operational efficiencies through site assessments, validation support, and risk mitigation.