



FOR LIFE SCIENCES. FOR LIFE

An Introduction to Ecolab Life Sciences

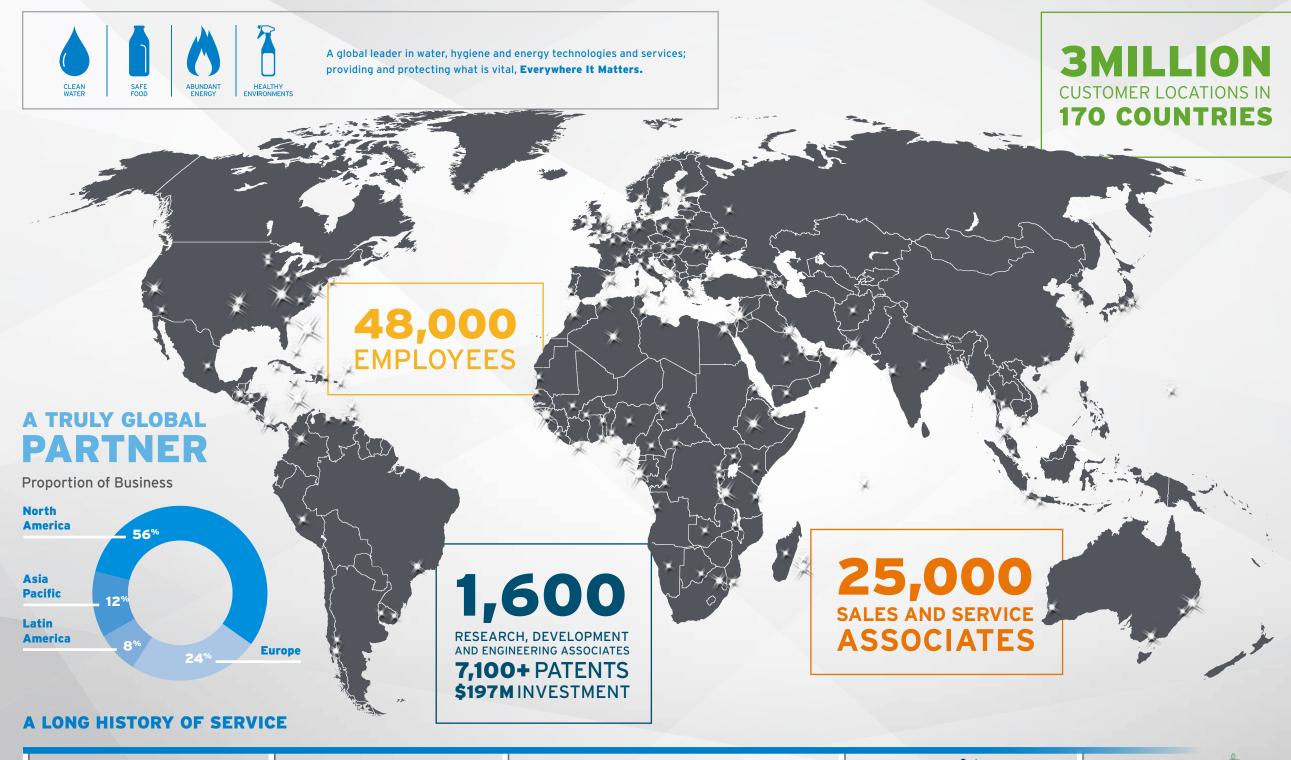


About **Ecolab**

1923

Economics Laboratory

founded by MJ Osborn.



WE ARE COMMITTED TO BEING A PARTNER **YOU CAN TRUST**



2018 World's Most Ethical Companies 12th Consecutive year Ethisphere Institute



Most Admired Companies 2018 Fortune Manazine



WATER A LIST



100% Score 2018 Corporate Equality Index Human Rights Campaign

#10 100 Best Corporate

FTSE Group



#29 100 Most Sustainable Companies 2017 Barron's Magazine



FTSE4Good 4th Consecutive Year FTSE4Good Index



#50 Most Sustainable



Sustainability Indices

2017 Best for Vets Military Times

2017 North America Index



#43 Climate Innovation Maplecroft





2016 Safer Choice Partner of the Year, Innovators Category #31 Best Companie to Sell For

50 BEST

Market expansion through acquisition of Adams healthcare - a UK based specialist in Infection **Prevention, Contamination Control & Thackray**

Surgical Instruments.

2003

2006

Adams

Shield Medicare

Industry and expertise expansion through acquisition of Shield Medicare - market leader in **Contamination Control.**

2011



Merger with Nalco to become the world's leading

water treatment and energy efficiency company.

2017

Anios acquisition, a leading European manufacturer and marketer of hygiene and disinfection products for the healthcare and personal care industries.

ANIOS





PHARMACEUTICAL

STRONG PARTNERS FOR THE CHALLENGES AHEAD

The pharmaceutical world is changing faster today than ever before. Pressure from patent expirations, regulations, affordable healthcare, and industry consolidation, as well as an increasing demand for more sustainable practices, creates a challenge. We understand these challenges and have developed tools to help you overcome them.

PERSONAL CARE

UNDERSTANDING YOUR NEEDS IS OUR STRENGTH

The personal care industry is experiencing increased pressure from competition, changing consumer tastes, preferences and increased regulatory oversight. It is also being challenged to be more sustainable. With a full understanding of your operation, we can integrate our full suite of solutions where it makes the greatest impact on your business.



You need a trusted partner in the Pharmaceutical and Personal Care industries to take on these essential operational challenges so your resources can focus on what matters most—delivering safety, compliance and operational efficiency. **Ecolab is that partner.**



Expertise in **Pharma**

Ecolab provides our customers with complete cleaning and disinfection programs for external surfaces of manufacturing equipment and cleanrooms, and for direct product contact surfaces.

The tight specification formulations of these programs meet the latest standards and are manufactured in fully auditable and traceable production facilities to meet your needs.

With years of industry experience, our Validation and Technical Support Teams will assist you in:

- ▲ Navigating the complex process of disinfectant qualifications in cleanrooms
- Evaluating and recommending methods to optimize time, temperature, mechanical action and chemistry of clean-in-place systems

THE COMPLETE APPROACH TO BETTER CLEANING AND DISINFECTION IN THE PHARMACEUTICAL INDUSTRY

Manufactured to the highest standards, Ecolab's Klercide[™] and COSA[™] portfolios, combined with monitoring and best practice training support, can help ensure a reduction in residues and the risk of batch rejection or potential shut downs.



Expertise in Personal Care



Experienced, highly trained and backed by the full resources of the global leader in sanitization, our dedicated team will deliver the proven solutions you need to:

- ✓ Produce safer, high-quality products that exceed your customers' standards
- Continuously and measurably improve operational efficiency
- Help achieve your sustainability goals, including reducing water and energy consumption

We have extensive experience in developing sanitization programs for the unique composition of the pigments, emulsions, waxes and gels used in the cosmetics and personal care industries. Our cleaners, sanitizers and boosters are designed for the removal of these ingredients, especially the most difficult to clean soils.

OUR INTEGRATED PROGRAM HELPS IMPROVE SAFETY, COMPLIANCE AND OPERATIONAL EFFICIENCY

Along with our best in class sanitization programs, the Ecolab team also provides cleaning validation support, innovative engineering solutions and water and energy management services to provide an end-to-end offering aimed at exceeding your operational and quality goals.



Addressing Your **Needs**





SAFETY

Safety and integrity are critical to both you and your customers. It ensures both public health and brand protection.





PRODUCT QUALITY

Ensuring quality is vital to maintaining a successful brand and competitive product offering.





OPERATIONAL EXCELLENCE

Constant pressure of reducing costs demands higher operational efficiency and reduced downtime.





COMPLIANCE

Evolving regulatory requirements add pressure to ensure compliance across your facility network.





BEST PRACTICE & STANDARDIZATION

Being a global player, you are focused on standardizing your processes and sharing best practices across your facilities in order to develop a best in class program.





Changes in your workforce, the regulatory environment and product innovation generate the need for comprehensive training programs.





You are committed to making your operations more sustainable by reducing your overall carbon footprint, optimizing your water usage, efficiently managing your energy needs, and reducing your waste.





INNOVATION

Your constant focus on innovation adds complexity in the manufacturing environment and the need for new cleaning, disinfection and sanitization programs.

How Can We Achieve This?

By identifying our customers' specific needs, we are able to provide the best way forward with our Total Plant Solutions offering.



Development and delivery of materials to train staff on:

- Optimal cleaning and disinfection application techniques
- Inspection trends and new requirements
- Validation guidance



SITE SURVEYS

Accredited subject matter experts:

- Survey on site to assess cleaning and disinfection processes
- Report findings and partner to optimize



CLEANING & DISINFECTION PROGRAMS

More than just the right chemistry.

Innovative site-specific programs to help:

- ▲ Manage risk
- ✓ Improve process efficiency



SAFETY

TOTAL PLANT SOLUTIONS

CLEANING & DISINFECTION VALIDATION SUPPORT

LIFE SCIENCES

Assistance with:

- Validation efficacy project management
- Optimization based on environmental & economic targets





REGULATORY & SCIENTIFIC INSIGHTS

Knowledge of the regulations and regulatory environment to:

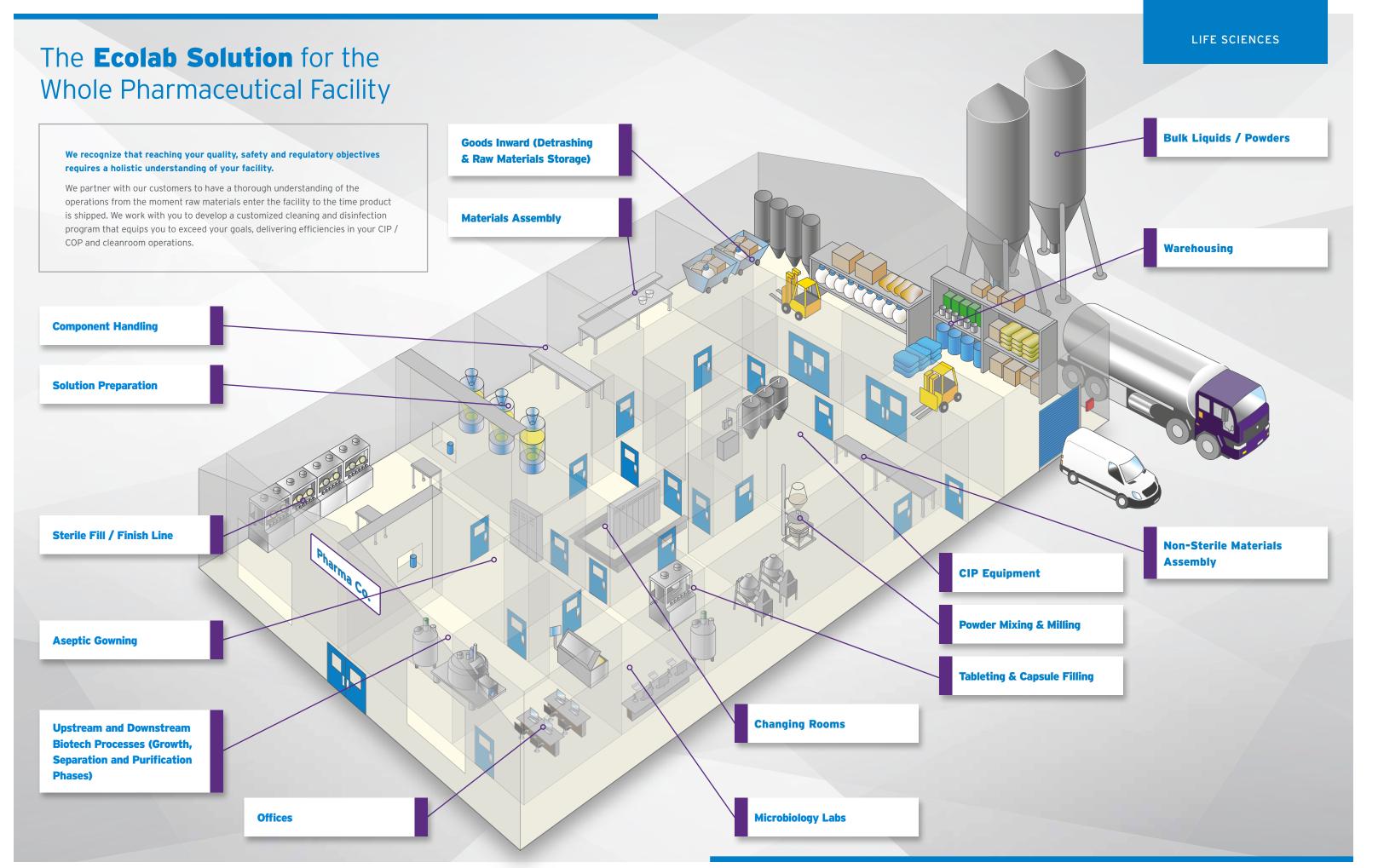
- Ensure compliance with cGMP to assure product safety and quality
- → Help implement validations that meet regulatory expectation

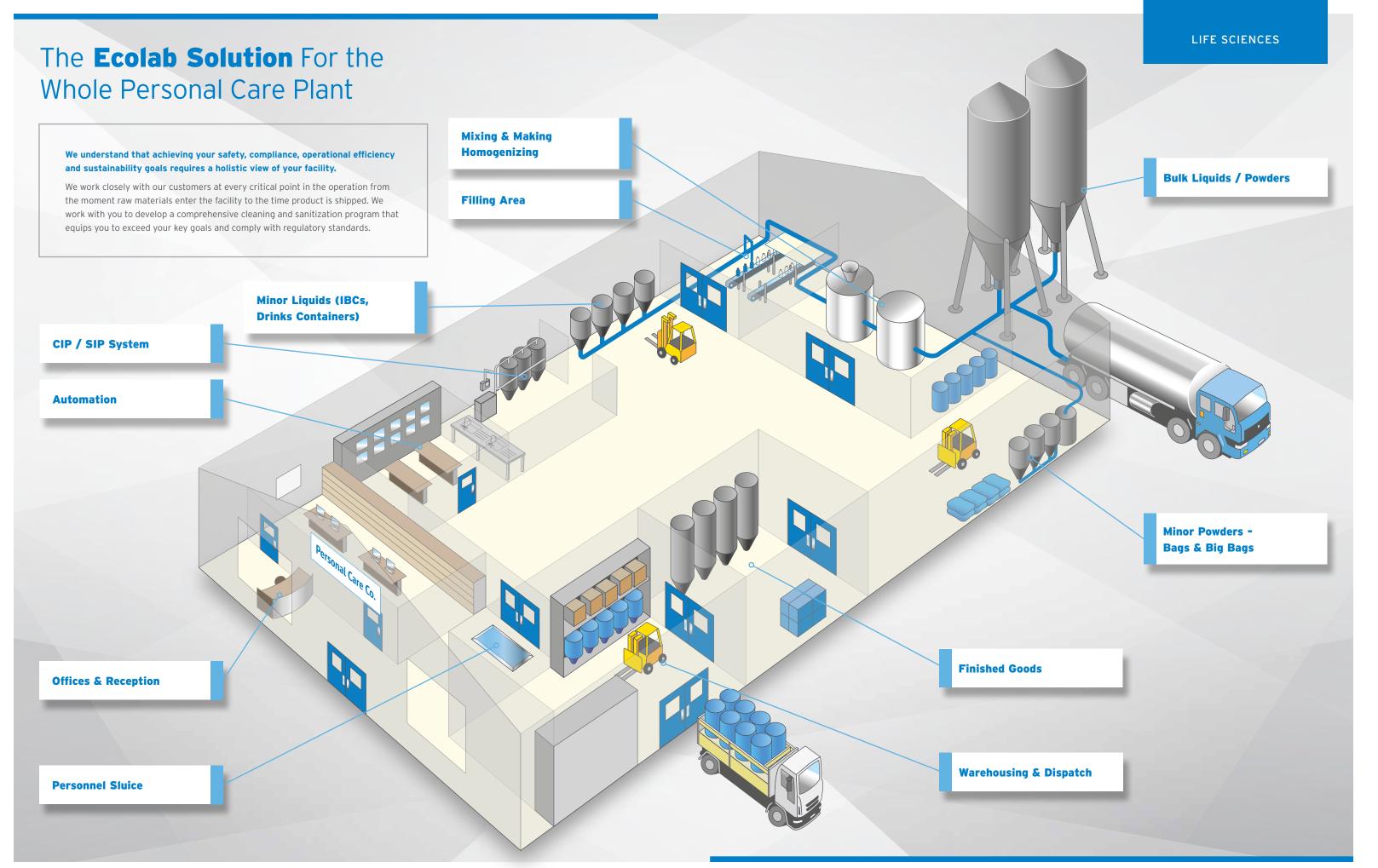


Lab testing for:

- Soil cleaning studies
- ▲ Analytical determinations and residue analysis
- Surface disinfection testing







OUR ASSURANCE

Ecolab is committed to providing exceptional service, total plant solutions and unsurpassed industry expertise to help you achieve your business goals.

Our breadth of resources and integrated business model ensure consistency across your operations. We look forward to the opportunity to partner with you on your transformation journey.

PLEASE SPEAK TO YOUR ECOLAB ACCOUNT MANAGER FOR FURTHER INFORMATION

WORLDWIDE HEADQUARTERS

1 Ecolab Place St. Paul, MN 55102 USA www.ecolab.com/lifesciences www.ecolab.com/pharmaceutical

