



# Residue Management in Cleanrooms

Optimise your disinfection processes

## The importance of residue management

### Ease Compliance

The revised Annex 1 clearly states that residues should be removed in order for disinfection to be effective.

**//For disinfection to be effective, prior cleaning to remove surface contamination should be performed. Cleaning programmes should effectively remove disinfectant residues.//** Eudralex Vol 4, Annex 1, 4.33

### Improve Safety

High residue disinfectants can also leave a build-up of residues, resulting in sticky or slippery surfaces which can be a hazard for operators.

**//Not performing a regular disinfectant residue removal step on floor surfaces can lead to safety risks. Disinfectants [...] can leave sticky or slippery surfaces.//** Ecolab Global Technical Consultant

Ecolab has put **residue management** as the core of its **contamination control strategy program**.

## Low residue disinfection for your cleanroom

Ecolab's low residue programs can help you to comply with the residue management requirements of Annex 1 and help improve the safety of your cleanroom operators.

A safer and more efficient way to manage residues can be achieved by the adoption of low residue biocidal products.



Ecolab offers a range of both **routine biocide** and **periodic sporicide** low residue solutions that can be implemented as part of a low residue disinfection regime in your cleanroom



ROUTINE  
BIOCIDE

**Klercide**  
Low Residue Quat

**Klercide Low Residue**  
Sporidical Peroxide

PERIODIC  
SPORICIDE



GLOBAL EXPERTS IN CONTAMINATION CONTROL



# The Benefits of a Low Residue Disinfection Regime

A cleaning and disinfection regime using low residue biocides helps to achieve the following gains when compared to the use of high residue products:



## Reduce Safety Risks

Controlling residues can help **reduce slipperiness of floors** and improve operator acceptance and safety



## Ease Regulatory Compliance

**Increased scrutiny** of residue management due to **Annex 1\***



## Increase Productivity

**Reduce rinsing time**, helping you **save resources** and effective **production time**

Adopt a **low residue approach** to take care of your **employees**, your **product** and your **business**

## Ease the implementation of a low residue regime in your cleanroom with Ecolab's Change Management program

Switching to a new regime can come with operational challenges. Discover how Ecolab's expert team of Global Technical Consultants can support Change Management with a customised plan to suit your specific needs.



For further information about our residue management services, speak to your **Ecolab Account Manager** or visit [ecolab.com/residues](https://ecolab.com/residues)

*USE BIOCIDES SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.*

### WORLDWIDE HEADQUARTERS

1 Ecolab Place  
St. Paul, MN 55102  
USA

[www.ecolab.com/lifesciences](https://www.ecolab.com/lifesciences)

### EUROPE HEADQUARTERS

Ecolab Europe GmbH  
Hofwiesenstrasse 349  
CH-8050 Zürich, Switzerland

[www.ecolablifesciences.com](https://www.ecolablifesciences.com)

\*EU GMP Annex 1 Manufacture of Sterile Medicinal Products (2022)

