November, 2020

Actizone™

Disinfection That Lasts

SOLVAY

Progress beyond

Presentation
Agenda

1. Surface Cleaning Trends & Consumers' Needs
2. Actizone™: Introducing a Cleaner, Safer Future
3. The Science Behind Actizone™ Technology
4. Proven Efficacy & Compliance with Testing Standards
5. Benchmarking

The Need: Clean & Disinfect Surfaces Durably

"Surface disinfection has become just as important as hand-sanitizing in the fight for greater infection control."

Consumer Needs

ANTIMICROBIAL ATTRIBUTES

- Long-lasting disinfection with residual antimicrobial activity
- Broad-spectrum antimicrobial efficacy
- Fast-acting to rapidly kill target microorganisms

CLEANING ATTRIBUTES

- Aesthetics
- Surface compatibility
- Cleaning performance

FORMAT ATTRIBUTES

- Ready-to-use formulations for spray applications
- Dilutable concentrate
- Wipes

Antimicrobial Standard

KILL A LOT

- Broad spectrum efficacy
  Gram-positive and Gram-negative bacteria and yeast
- Enveloped and non-enveloped viruses

KILL FAST

- Bacteria ≤ 5 min
- Yeast ≤ 10 min
- Human coronavirus, Influenza H1N1 ≤ Z5 min
- Large and small non-enveloped viruses ≤10 min

MAKE IT LAST

- Residual Self-Sanitization Test (24 hr)
  Protocol # 01-1A, EPA US Standard Test
- Residual Antimicrobial efficacy (24 hr)
  BSI PAS 2424, UK Standard Test

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A Proprietary Technology that Cleans and Disinfects Durably

24-Hour Antimicrobial Protection

Actizone™ technology traps antimicrobial actives, forming an invisible abrasion-resistant protective film on surfaces, to offer 24-hour protection.

Fast Kills ≥ 99.9% of Germs

Actizone™ technology initially kills more than 99.9% of bacteria, yeasts fungi and viruses, including coronaviruses.

Optimal Cleaning Experience

Actizone™ technology provides excellent shine and a residue-free finish on a range of surfaces including laminates, polycarbonate, glass and stainless steel.

Proprietary Technology

Actizone™ is a combines a proprietary long-lasting polymer, a state-of-the-art cleaning system and approved antimicrobial actives.

Multiple Application Formats

"Proven efficacy at use levels practical in various formats"

Actizone™ F5 - Trigger Spray

- Standard trigger spray application 3-4 sprays/m2
- Cleaning: spray, scrub and wipe clean
- Disinfection: spray, let stand 5 min and wipe
- For 24 hours: final spray till wet, gently spread to air dry
- Low residue over multiple applications
- Easily formulated with homecare fragrances at typical use level of 0.5%

Actizone™ DC - Dilutable Floor Cleaner Concentrate

- Concentrate formulation at 30X to 60X providing flexibility in application, cleaning and efficacy

Actizone™ Wipes

- 400% liquid loading, with high yield on quat release
- For different wipe composition: cellulose/viscose, cellulose, cellulose/polypropylene

Actizone™ F5 - Electrostatic Spray

- Ease of application and compatible with most electrostatic sprays modules
- Actizone™ F5 validated by PAS 2424 for efficacy at 15-20 g/m^2 with Pseudomonas aeruginosa

Actizone™ F3 - Aerosol

- Based on Actizone™ F5 formula
- Choice of propellant to be define regarding Aerosol supplier

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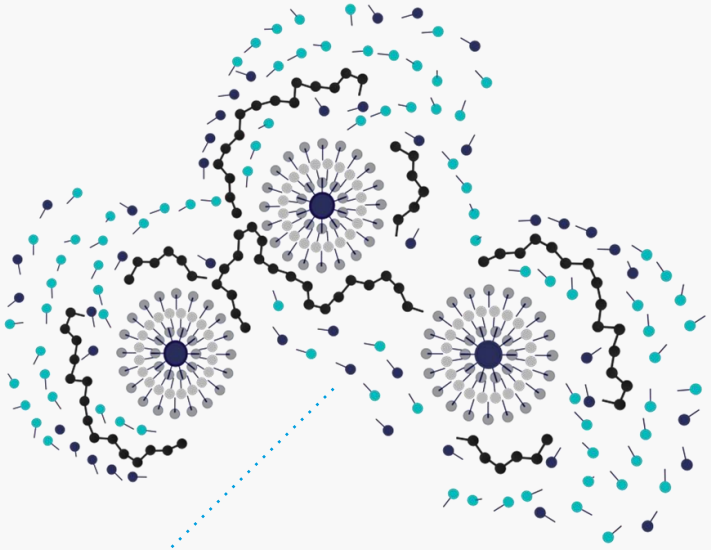
How does Actizone™ work?

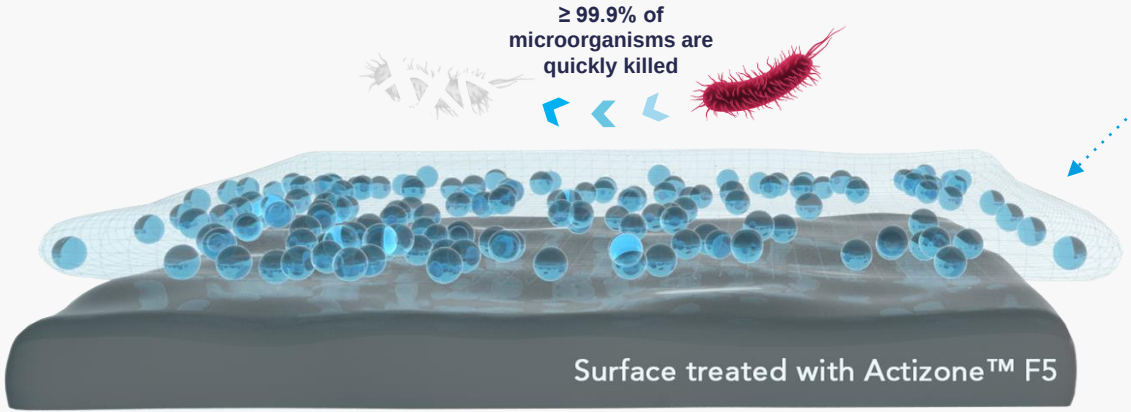
Once on a surface, Actizone™ F5 forms an invisible protective film that delivers residual antimicrobial activity when needed.

The antimicrobial actives trapped inside the polymer complexes remain ready to continue killing microorganisms.

The solution remains effective even when surfaces are repeatedly contaminated by continued contact.



Actizone™ F5 solution consists of a proprietary polymer, cationic antimicrobial actives (QACs) and a surfactant package for state-of-the-art cleaning performance.



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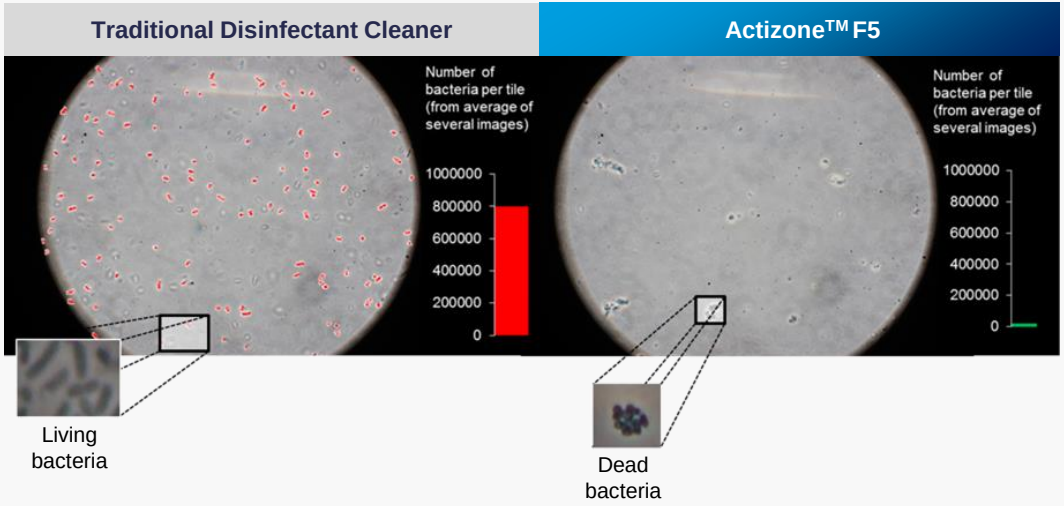
Proven Efficacy Compared to Conventional Disinfectants

"Re-inoculated bacteria are continually killed on surfaces treated with Actizone™"

Visualizing Actizone™ 24-Hour Protection

The surface is initially treated with the disinfectant cleaners and challenged with multiple cycles of wet and dry abrasions and bacterial recontamination.



24-hour Protection

Actizone™
Disinfection That Lasts

Recontamination After 00:05

Traditional Disinfectants

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Benchmarking
Actizone™ Outperforms Competition

	Actizone	24-hour long-lasting benchmark	Conventional disinfectant cleaner	Non regulated residual products
Aesthetics Film appearance & residue	✓	✗	✓	✗
Compatibility Surface compatibility	✓	✗	✓	✓
Cleaning	✓	✗	✓	✗
Microbial Efficacy Fast-kill performance	✓	✓	✓	✓
Long-Lasting Disinfection*	✓	✓	✗	✗

** 2 regulated protocols for the 24-hour claim:*

- *US EPA*
- *EU-UK BS*

Actizone

Act. Now.

www.solvay.com/actizone