

Frequently Asked Questions About the Halo Disinfection System®



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How is HaloMist™ distributed to surfaces during treatment?

HaloMist™ is distributed in uniform delivery as a fine dry fog from the Halo Disinfection System®, and ensures consistent volume, turbulence, and droplet size for the disinfection of all surfaces.

What is dry fog?

Dry fog is a fog of very finely vaporized particles. The particles are fine enough to where they could be considered effectively dry—there is no risk of any surface becoming damp or wet, and the air's humidity will not be increased. When used as directed, this means that HaloMist™ does not condense or corrode any surface it encounters.

Why is coverage important?

Some might argue that crevices or shadowed areas such as under chairs, beneath tables, or between shelves don't matter. However, any residual spores or bacteria in these areas are capable of quickly reproducing and ultimately spreading infection. The Halo Disinfection System® ensures comprehensive and uniform surface coverage for the entire room—even in areas beyond the reach of manual or UV disinfection methods.

What are the active ingredients in the HaloMist™ Solution?

Using hydrogen peroxide and ionic silver, the proprietary HaloMist™ formula applies multiple mechanisms of killing action to destroy a broad spectrum of microorganisms and provide antimicrobial qualities for maximum impact.



Are hydrogen peroxide or silver considered dangerous?

HaloMist™ and its ingredients are non-hazardous. HaloMist™ is stable and poses no fire hazard. EPA Registered.

Is there any risk to the person applying the treatment?

There is no risk to the person operating the machine. Halo Disinfection System® eliminates operator exposure to chemicals since the operator is not in the space during the time it is being treated.

Are these products environmentally friendly?

HaloMist™ naturally decompose into water and oxygen, meaning it is safe, non-toxic, and eco-friendly.

Some of our employees/customers are sensitive to harsh chemical scents and synthetic fragrances. Will this disinfection treatment affect them?

Thanks to its unique formulation, the HaloMist™ solution has no strong bleach, chlorine, or other harsh chemical odor, nor does it contain any added fragrances.



What is considered good efficacy? What is considered bad efficacy? How is it measured?

Efficacy refers to a disinfection technology's ability to kill bacteria wherever it reaches. The industry measures efficacy on a logarithmic scale to show the relative number of microorganisms eliminated as a result of disinfection efforts.

What is the log scale used by the disinfection industry?

Log reduction stands for a 10-fold (or one decimal point) reduction in bacteria, meaning the disinfectant reduces the number of live bacteria by 90 percent for every step.

For every 1,000,000 microorganisms living in a colony, the log reduction scale is as follows:

A 1-log kill reduces the colony to 100,000 microorganisms after a 90% reduction;

A 2-log kill reduces the colony to 10,000 microorganisms after a 99% reduction;

A 3-log kill reduces the colony to 1,000 microorganisms after a 99.9% reduction;

A 4-log kill reduces the colony to 100 microorganisms after a 99.99% reduction;

A 5-log kill reduces the colony to 10 microorganisms after a 99.999% reduction;

A 6-log kill reduces the colony to 1 microorganisms after a 99.9999% reduction.

1-LOG KILL	2-LOG KILL	3-LOG KILL	4-LOG KILL	5-LOG KILL	6-LOG KILL
90%	99%	99.9%	99.99%	99.999%	99.9999%
100,000 Microorganisms Remain	10,000 Microorganisms Remain	1,000 Microorganisms Remain	100 Microorganisms Remain	10 Microorganisms Remain	1 Microorganisms Remains

HaloMist™ has a 6-log kill. What does that mean?

A 6-log kill rate is the highest validated efficacy on the market today and represents a near-sterilization of the disinfected space. While manual cleaning methods may result in a 1-log kill, leading UV technologies have been proven to achieve between a 1- and 3-log reduction of harmful microorganisms under ideal circumstances.

Is HaloMist™ EPA-validated? Is it on List N?

HaloMist™ is EPA-validated (EPA Reg. No. 84526-6) to kill 99.9999% of *C. difficile* spores and is on EPA List K for it. It is also on List N, making it effective against COVID-19.

Where are these products manufactured?

Made in the USA: HaloMist™ is manufactured in Houston, TX. The HaloFogger® is produced in Willow Grove, PA. HaloFoggers® and HaloMist™ are shipped from New Castle, Delaware.



Have Further Questions?

Contact Us