

## Key Features

CONTROL offers high levels of antimicrobial activity (it carries on working and is a persistent solution) and is fragrance free, chlorine free, alcohol free and exhibits the following key qualities when in use, Non-corrosive, Non-irritant, Non-toxic, food safe, safe in use, cost effective and excellent levels of user acceptance with a prolonged antimicrobial effect and excellent material compatibility.

## What is CONTROL?

CONTROL is a high level disinfectant technology platform offering safe, effective user friendly single step cleaning & disinfection across a wide range of industries from healthcare to educational establishments to food processing and veterinary science.

CONTROL is based around the quaternary ammonium compounds didecyldimethyl ammonium chloride (DDAC) and benzalkonium chloride (BAC) with an adjuvant effect to enhance its anti microbial efficacy. The advanced technology within the CONTROL product has resulted in the production of a 6th generation quaternary ammonium compound (QAC).

## What has it been designed for?

CONTROL has been developed for high level disinfection of hard and soft surfaces, environments, equipment and air. It is to be used in areas in which the reduction of bioburden is needed to be achieved, to enable the interruption of key transmission pathways (surfaces and air) and reduce the risk of cross infection and contamination.

CONTROL has also been specifically developed to be sprayed through our electrostatic sprayers, to be used at the disinfection stage of the cleaning process or as well as the cleaning part of a protocol.

## How does ULTRA effect microbes?

CONTROL is a powerful lytic agent which is based on the quaternary ammonium compounds benzalkonium chloride and didecyldimethyl ammonium chloride. These have multiple effects and points of action within the microbe which include:

- Inactivation of energy-producing enzymes
- Denaturation of essential microbial proteins
- Physical disruption of membrane lipids
- Bacteria cell walls

Proteins and lipids are essential components of bacteria, viruses, fungi and bacterial spores. Significant damage to these key microbial components is often fatal for the organism. CONTROL causes rapid and significant changes at multiple sites within the microbe. The magnitude of these effects is so great that it is typically lethal to the microbe within minutes of contact.

## How effective is CONTROL?

CONTROL, is a high level broad spectrum disinfectant cleaner which is effective against all microbial classes up to and including bacterial spores. See below table of extensive testing performed:

**All our EN & AOAC testing is carried out under Dirty Conditions, Temperature 20C, with 1, 5 & 10 minute contact times.**

Microbial Class	Efficacy Test	Contact Times *	Log Reduction
Bacteria (gram+/Gram-)	EN 1276	1	>5
	AOAC-Bactericidal 6	10	>6
Viruses (Enveloped/Non)	EN 14476	5	>4
	AOAC-Virucidal	5	>4
Fungi	EN 1650	1	>5
	AOAC-Fungicidal	10	>6
Bacterial Spores	EN 13704	60	>6
Mycobacteria	EN 14563:2008	5	>4

\* As our products are persistent we do not need to comply with contact / dwell times.