

FACT SHEET ESOL™

Saturday, March 28, 2020



THE ESOL™ TECHNOLOGY AT A GLANCE

ESOL™, electrolysed water, licensed by Bridge Biotechnology and manufactured by the Global Ecology Group (GEG), is a unique disinfectant with the germ-killing properties of chlorine but is non-toxic, and safe to humans, animals and the environment. ESOL™ has been approved under Regulation 31 of the Water Supply Regulations 2000 for use in public water supplies in the UK.

A unique non-toxic disinfectant with rapid germ-killing properties.

It exterminates 99.95% of bacteria, viruses, fungi, and protozoa.

ESOL™ exterminates 99.95 percent of germs that it comes into contact with – it causes bacteria to literally burst by breaking their cell membrane apart. ESOL™ is also characterised by a rapid killing time demonstrated on Escherichia coli (E. coli), SARS coronavirus (SARS-CoV), Norovirus, Avian influenza virus (AI), Swine influenza virus (SIV), human immunodeficiency viruses (HIV), Poliovirus, Legionella bacteria, Methicillin-resistant Staphylococcus aureus bacteria (MRSA) and Clostridioides difficile bacteria (C. diff).

In addition to the drinking water industry, ESOL™ and ESOL™ generators are commercially available in various other industrial sectors, delivered through either spraying or static and mobile decontamination fogging systems. The ESOL™ fogging systems are ideal to sanitise buildings and vehicles, while sprays are great for sanitising surfaces and hands. ESOL™ has been widely and safely used in the food industry.

Delivered through static and mobile fogging systems, or through spraying.

IN A NUTSHELL: THE SCIENCE BEHIND AND EFFICACY OF ESOL™



ESOL™, electrolysed water, or electro-chemically activated water – made from salt (NaCl), water (H²O) and electricity – works by oxidising pathogens and is non-toxic, rapidly degradable and has a broad-spectrum of antimicrobial activity. ESOL™ is produced via the electrolysis of a low mineral salt solution in an electrochemical cell. This results in a split: a positively-charged solution and a negatively-charged one. The negative solution contains a mix of relatively short-lived reactive oxidants that kill pathogens. After use, ESOL™ ultimately reverts to salt and water.

Numerous studies have demonstrated the virucidal activity of electrolysed water against a broad range of targets. The broad-spectrum antimicrobial activity of electrolysed water enables high-level disinfection as defined by the Center for Disease Control and Prevention (CDC), and their favourable biocompatibility means that electrolysed water is ideally suited as both an environmental decontaminant and in the control or treatment of skin surface or mucous membrane infections. It is expected that surface disinfection with ESOL™ to significantly reduces coronavirus infectivity on surfaces within one minute exposure time and a similar effect against the COVID-19 (SARS-CoV-2).

Some examples of scientific evidence:

- a) 99.999% of the highly pathogenic Asian Avian Influenza A (H5N1) Virus and the low-pathogenic H9N2 virus were destroyed one minute after applying the electrolysed water >>> [Read more](#)
- b) Fogged electrolysed water has been found to significantly reduce the surface levels of both human Norovirus and surrogate viruses and has shown significant activity against human immunodeficiency virus (HIV). >>> [Read More](#)
- c) Electrolysed water can be regarded as a cost-effective disinfectant that is successful in controlling hospital infections, as it also has an effect on various bacteria with resistance capabilities. >>> [Read more](#)
- d) Electrolysed water has no systemic effects and is safe as a sanitiser. >>> [Read more](#)

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