

# ElectroX<sup>®</sup>

STERILISING WATER



## **GUIDELINES AND SAFETY INFORMATION WHEN USING ELECTROX STERILISING WATER FOR FOGGING**

Electrox Water Limited is dedicated to providing customers with the best and most reliable pH neutral electrolysed water product on the market today.

Customer and end user health and safety is of paramount importance to us. The following guidelines show how to achieve the most effective use of ElectroX Sterilising Water.

*For a copy of the Safety Data Sheet for ElectroX visit the downloads section on our website at [www.electroxwater.co.uk](http://www.electroxwater.co.uk) or if you have any questions about this booklet, please contact our Technical Director George Field, on 07772 551068 or email [george@electroxwater.co.uk](mailto:george@electroxwater.co.uk).*



**PLEASE READ THIS BOOKLET CAREFULLY PRIOR TO USING ELECTROX STERILISING WATER AND FOLLOW THE INSTRUCTIONS. ELECTROX WATER LIMITED WILL NOT BE HELD LIABLE FOR IMPROPER USE OF THE FOGGING MACHINE OR ELECTROX WATER CAUSED BY NOT FOLLOWING THESE INSTRUCTIONS. IMPORTANT SAFETY INFORMATION**

Electrox Water Limited has recommended volumes and concentrations of ElectroX Sterilising Water for varying areas of space being fogged in different environments.

We recommend applying approximately 6ml/m<sup>3</sup> based on an average fogging height of 1.5m, which is suitable for most situations. This will vary depending on the types of surfaces within your volume of space. Using different amounts of liquid will render the information provided void and new exposure concentrations and time to reach the point at which PPE is required will need to be calculated. Please contact the ElectroX team for assistance with this if required.

## **ELECTROX CONCENTRATIONS**

Fogging with ElectroX Sterilising Water can be undertaken in a variety of scenarios at different recommended concentrations. These are listed below:

**100% concentration – areas with a confirmed viral or bacterial contamination.**

**50% concentration – when generally disinfecting homes and workplaces including offices, retail shops, bars, restaurants, hotels, gyms, leisure centres, care homes, schools, nurseries etc.**

If diluting with tap water ElectroX Sterilising Water, should be used within 24 hours. If using distilled water, the solution can be stored for up to 4 weeks.

## **ELECTROX VOLUMES**

To calculate the approx. volume of ElectroX Sterilising Water required simply calculate the surface area of the floor space in metres (Width x Length), multiply by 1.5m (height) and finally multiply by 6 to obtain the volume in millilitres. This is the approximate volume of liquid required to cover all the surfaces/items within the space. However, this volume may need to be amplified if there is large number of items, increasing the relative surface area in the space. The table on the next page gives some examples.

## INSTRUCTIONS FOR SAFE AND EFFECTIVE FOGGING

1. Before fogging it is important to ensure all surfaces are physically clean before disinfecting.
2. Check that the room to be fogged is unoccupied (except the person fogging who is wearing appropriate PPE). This will ensure that all areas are reached effectively.
3. For users with very sensitive skin it may be advisable to wear gloves. For users with asthma or other breathing issues, we recommend always wearing PPE when fogging.
4. Fill ElectroX fogging machine with ElectroX Sterilising Water (and water; if dilution is required see dilution details on previous page).
5. Before starting the fogger make sure the throttle valve (brass screw located on the front of the reservoir) is fully open by turning it anti-clockwise.
6. Turn on the fogger with the nozzle pointing upwards and into a clear open space. As soon as there is a thick stream of fog, adjust the throttle valve spray to fit the application (i.e. thicker fog if you are fogging larger areas and vice versa).
7. Hold the fogger an appropriate distance (1.5-2m) from target surfaces you wish to disinfect that will create an even coverage without over saturation.
8. Move the fogger smoothly over target surfaces/items you wish to disinfect to ensure a sufficient and even coverage of ElectroX Sterilising Water – making sure you fog under and around items too.
9. Do not over saturate areas.
10. Do not spray directly onto electrical sockets and/or open electrical devices that do not have resistance to water (e.g. radios, etc.).
11. Once room has been fogged, allow mist to settle for a minimum of 5 minutes or until fog is no longer visible. Then ventilate (opening a window is fine) for 2 minutes before repopulating the room. If room has no ventilation allow a further 5 minutes before letting people back in.

## VOLUME OF ELECTROX AND ESTIMATED TIME TO FOG

Room Volume in m <sup>3</sup>	Total Volume of Liquid in ml (based on 6ml/m <sup>3</sup> )	Estimated Fogging Time
20	120	36s
30	180	54s
50	300	1min 30s
100	600	3mins
200	1200	6mins
300	1800	9mins

## LEVEL OF PPE REQUIRED WHEN FOGGING

Concentration of Electrox	Level of FFP Mask or P Filter required			
	No Mask Required	FFP1	FFP2/P2	FFP3/P3
100%	N/A	0-50mins	50mins – 2hr 5mins	2hr 5mins – 4hr 10mins
50%	0-25mins	25mins – 1hr 40mins	1hr 40mins – 4hr 10mins	4hr 10mins – 8hrs
10%	0-2hr 5mins	2hr 5mins – 8hrs	N/A	N/A

This is based on a workday of 8 hours. Users should not be continuously exposed for longer than 1 hour before leaving the fogging process and removing the mask to take a break.

### FURTHER INFORMATION

The following information is taken from the toxicological assessment report of the active substance in Electrox Sterilising Water:

The most concentrated form of Electrox Sterilising Water is below the no adverse effect concentration (NOAEC) set for skin and eyes for sodium hypochlorite solutions. Due to the skin and eye irritant properties of sodium hypochlorite solutions they may be also considered as comparably irritant in the respiratory tract. However, the concentration of available chlorine in the Active Chlorine solutions (~0.03%) is far below the concentrations triggering classification for skin or eye irritation. **Consequently, though respiratory exposure should be limited for precautionary reasons no major concern is expected for respiratory irritation of Active Chlorine.**

However, due to the lack of available data on the inhalation on the active substance, following information provided by the European Chemicals Agency (ECHA) it is recommended to follow the workplace exposure limit to that of chlorine gas for the no adverse effects concentration to humans (1.5mg/m<sup>3</sup>) for use only around humans. Do not fog around animals.

The Health and Safety Executive states that employers are responsible for determining their own working practices and in-house standards for control of exposure. In the section '*level of PPE required when fogging*' Electrox Water Limited has provided the user with guidance on what level of PPE should be worn to comply with the workplace exposure limit of 1.5mg/m<sup>3</sup> when fogging at the recommended rate of 6ml/m<sup>3</sup>.

**For information on HSE Protective Equipment at Work:**  
[www.hse.gov.uk/pubns/books/hsg53.htm](http://www.hse.gov.uk/pubns/books/hsg53.htm)

**For more information on FFP masks visit:** [www.hse.gov.uk/agriculture/dustmasks.htm](http://www.hse.gov.uk/agriculture/dustmasks.htm)

**For information on Exposure Limits (WELs) visit:** [www.hse.gov.uk/pUbn/ priced/eh40.pdf](http://www.hse.gov.uk/pUbn/ priced/eh40.pdf)