



CHLORINE DIOXIDE  
ULTRAVIOLET  
FILTRATION  
IRON REMOVAL  
WATER SOFTENING

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## CHLORINE DIOXIDE – USER GUIDE

Repeated problems with positive legionella tests in domestic water systems are often related to biofilm and bacteria 'hide out' caused by poor system design or maintenance.

Legionella will seed the system via the mains and will proliferate in dirty or under used sections of the water distribution pipe work..

High ambient temperature combined with the low water flow will exacerbate this problem.

Chlorine dioxide provides a stable residual in the water even at elevated temperatures and will enhance the performance of existing treatment systems; the product should be introduced with a flow operated dosing pump or dosed manually to storage tanks to provide a recorded minimum level throughout the system.

The result is sterile water at the point of use with residual levels well within the limits set for drinking water for human consumption.

## ADVANTAGES

- *A clean water supply with a residual sanitiser will prevent legionella growth.*
- *Chlorine Dioxide will not impart a 'chlorine' taste to the water at the correct dose rate.*
- *Chlorine Dioxide has greater thermal stability than sodium hypochlorite.*
- *Chlorine Dioxide is 2.5 times more powerful than the equivalent dose of hypochlorite.*
- *Chlorine Dioxide is effective against biofilm.*

A low dose of Bechlor 93 chlorine dioxide will prevent bacteria growing in the water far more effectively than conventional chlorine. It will also not taint the water with an unpleasant 'chlorinated taste'.

## PRODUCT SELECTION

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### CHLORINE DIOXIDE

#### OPTION ONE – BECHLOR 935

A 5% STABILISED  
CHLORINE DIOXIDE SOLUTION

IDEALLY ACTIVATED WITH ACTIVATOR A5

#### OPTION TWO – BECHLOR 93

A 'READY TO USE' FULLY ACTIVATED  
CHLORINE DIOXIDE SOLUTION

- Suitable for cleaning severely fouled systems or for low volume disinfection

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- NEVER MIX NEAT PRODUCTS
  - ALWAYS DILUTE BECHLOR 935 BEFORE ADDITION OF ACTIVATOR A5
  - ALWAYS MIX IN AN AREA WITH ADEQUATE VENTILATION
  - ALWAYS DECANT BECHLOR 93 IN A WELL VENTILATED AREA
  - READ COSHH AND DATA BEFORE USE

### MIXING SUGGESTION

Add ¼ litre Bechlor 935 to 20 litres of water, then add ¼ litre Activator A5; leave to activate for 30 minutes to produce a 500 ppm solution ( test kits are available).

Bechlor 93 is supplied as a 2000ppm solution, 1 ltr will achieve 0.5 ppm in 4000 ltrs of clean water. If the Bechlor 935 and Activator A5 mix is used then you will require 4 ltrs as this mix is weaker at 500 ppm but the odour is not as strong in a confined roof space.

CHLORINE DIOXIDE IS SUITABLE FOR ADDITION TO DRINKING WATER PROVIDING THE COMBINED CHLORINE DIOXIDE & CHLORITE DOES NOT EXCEED 0.5ppm.

