Fact Sheet | Water safety and disinfection



Ultralox 40®

HOCl, active form of chlorine as a biocide Potable and process water Article 95 compliant DWI approved Used widely in the NHS

Suitable for...

Hot / cold systems System purges Hospitals Hotels Care homes Schools Small offices Legionella control **Domestic systems** Drinking water Breweries Dairies Food processing **CIP** systems Leisure centres Poultry houses And more ...





Ultralox40®

Approved hypochlorous acid, the active form of chlorine that works as a biocide



Low concentration, highly effective colourless biocide

Ultralox40[®] is an extremely efficacious fast-acting stable biocide (hypochlorus acid or HOCI). HOCI is manufactured naturally by white blood cells (neutrophils) as part of the body's defence against pathogens. HSG 274 cites "hypochlorus acid (HOCI) the form of chlorine that is most effective as a biocide". It breaks down biofilm and is highly effective against pathogens and bacteria. Particularly for systems with low and high pressure, high bacteria counts, embedded or systematic biofilm challenges, require repeated flushing and one-off disinfections and therefore have requirements for secondary disinfection.

Small and medium applications

Delivered in 25L, 200L or 1,000L package sizes. Can be dosed into incoming mains or a break tank, via fixed or mobile delivery and control systems that can be purchased or hired. The standard mobile or free-standing skid mounted systems can be retrofitted and are suitable for systems up to 40m³/day. 200L systems are better suited for 50-60m³/day requirements.

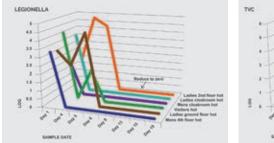
Constituents are BS EN approved (BS EN 900:2007 and BS EN 974:2003) Appearance: colourless

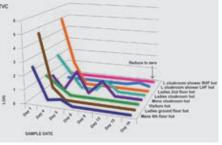
Sg (at 20° Celsius): 1

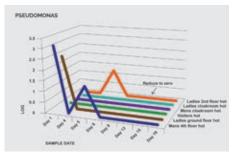
Intended dose rate: 0.2ppm-1.5ppm (higher for shock-dosing) Drinking Water Inspectorate Approval (DWI 56.4.1074) under Regulation 31 (4)A of the Water Supply (Water Quality) Regulations 2000 SI NO 3184 and The Water Supply (Water Quality) Regulations 2010 SI No 994 (W.99).



Shock-dosed for 24 hours before maintenance 0.5ppm-1ppm in a food and beverage manufacturing site with stubborn bacteria counts



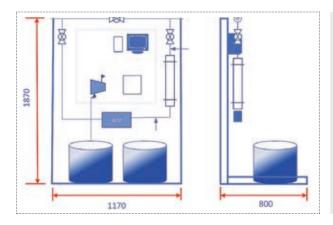




Disinfection comparison

Feature / Application	Ultralox 40	Super Heating and Flushing	Traditional Chlorination System	Chlorine Dioxide	Copper-Silver Ionisation System	Ultraviole
Used on domestic cold-water systems	v	Х	v	~	v	~
Used on domestic hot-water systems	v	v	v	~	v	~
Low hazard	~	Х	Х	Х	v	~
Compatible with equipment and systems	v	v	Х	~	Stains white porcelair	ר 🖌
Breaks down biofilm (at nominal operating conditions)	v	Х	Х	~	Ppm dependent	Х
Inhibits biofilm (at nominal operating conditions)	v	Х	v	~	Ppm dependent	Х
Residual effectiveness against Legionella	v	Х	v	~	v	Х
Simple to monitor	~	v	v	~	Х	~
Simple dosing equipment	v	N/A	V	Sometime	s X	~
Single package dosing	v	N/A	v	Sometime	s N/A	N/A

Skid system control and dosing



The kit comprises 2 x 25L or 1 x 200L options including;

- Chlorine Analyser / Controller
- Backboard and Ancillary systems
- 2 x 25l drum bund
- Flow meter
- Dosing pump(s)
- Fused power supply
- Injection tubing and foot valve

WCS Group Safe Efficient Compliance

MARLOWE Critical Services

A Marlowe Critical Services company

WCS Group is the 'Water Treatment and Hygiene' division of the Marlowe Critical Services Group owned by parent Marlowe plc. Marlowe plc provides one access point for specialist 'highest standards' across;

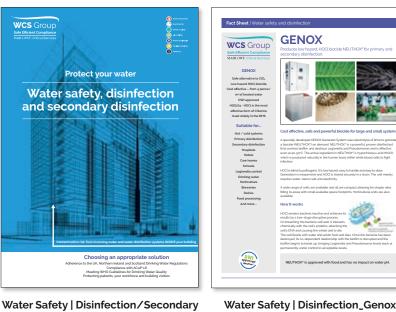
'Compliance & Facilities Software', 'Health and Safety Compliance', 'Retained HR, Employment Law & Health and Safety', 'Occupational Health Services', 'eLearning and Training Services', 'Fire Safety & Security Services',

'Water Treatment & Hygiene Services', 'Air and Ventilation Compliance', 'Asbestos Management Services'.

All nine divisions can be accessed singularly or in combination.

The Group shares many common customers and collectively employs 2,200+ specialists, servicing around 30,000 customers.

Compliance. Assured.



Disinfection Overview

Further reading

Water Safety | Disinfection_Genox Fact Sheet



Water Safety | Disinfection_ClO₂IX Fact Sheet

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For a full list of our accreditations please visit: www.wcs-group.co.uk/accreditations-respository

WCS Group is a trading name for WCS Environmental Ltd, registered in England and Wales (Number 02184649) at 20 Grosvenor Place, London, SW1X 7HN. Head Office – 17 Wheatstone Court, Waterwells Business Park, Gloucester, GL2 2AQ. The WCS Group is a portfolio company of Marlowe plc and leads the water division of Marlowe Critical Services.