

Geosil150

The Legionella Biocide

Product Description

Geosil150 is a Hydrogen Silver Peroxide (HSP) biocide which contains hydrogen peroxide boosted with silver nitrate and phosphoric acid.

Professional water treatment product which has proven efficacy in controlling Legionella in water distribution systems. Geosil150 breaks down into water and oxygen, leaving no harmful residues or odours.



How It Works

Geosil150's powerful oxidising agent – hydrogen peroxide – reacts with organic matter by breaking apart cell walls, damaging its DNA and enzymes to eventually destroy it.

Ionic silver assists the disinfection process by increasing the susceptibility of bacteria to the effects of the oxidising agent. The positively charged silver ion is drawn to bacteria, boosting the exposure of that bacteria to the peroxide and in the process increasing the biocide's effectiveness.

Approvals & Certifications

Geosil150 has been granted Biocidal Products Regulation Approval (BPR) and is authorised for use against legionella.

To meet the approval, we undertook rigorous field testing according to the ECHA Guidance (Guidance on the Biocidal Products Regulation Volume II Efficacy – Assessment and Evaluation (Parts B+C) Version 3.0 April 2018), and Section 5.4.4.6 on disinfection of inner surfaces in human drinking water systems.

The application was registered by the European Chemical Agency (ECHA) and assessed by the Health and Safety Executive (HSE).



Chlorine Products vs Geosil50

The widely used alternative to treatment with HSP is chlorination, which is dependent on a narrow window of pH. It also leaves a persistent taint and produces mutagenic compounds as by-products of the disinfection process e.g. trichlormethane.

Geosil50 breaks down into hydrogen and oxygen, and therefore does not pollute sewage water. It is colourless, odourless, and there are no residual by-products.



Important to know

Product type:

Highly concentrated biocide.

Recommended:

Against Legionella, other bacteria, viruses, fungi & biofilm.

Effective:

Works within 3 hours. No-residual by products.

Shelf-life:

Increased shelf life of up to 2 years.

Disinfection procedure

Geosil50 is approved for professional water treatment of water storage tanks and hot & cold pipework water systems, as part of your regular operations against legionella or after a period of inactivity of shut down. Disinfection procedures must be carried out according to protocol in the context of the correct risk assessments being completed and specific requirements considered, by those competent to do so.

Recommended dosage overview

System Volume (litres)	Geosil50 volume
200	70.0mL
500	175 mL
1,000	350 mL
2,000	700 mL
5,000	1.75 L
10,000	3.5 L

Volume of Geosil50 to be added to a Water System to achieve 350ppm Geosil50, product, which is equivalent to 175ppm (v/v) H2O2, in the system.



We provide comprehensive training and support in the application and use of Geosil50. Visit our website for more info geosil.co.uk or call us on **0141 440 1434**.