

BioMate* 5702

liquid chlorine microbiological control agent

- Effective on a wide spectrum of bacteria, fungi and algae
- Controls biofilm formation
- Easy to feed liquid
- Effective at low concentrations
- Effective over a wide pH range

description and use

BioMate 5702 is an oxidising biocide which is used to control microbial populations in open evaporative cooling systems.

Control of microbial populations in cooling systems is essential in order to prevent biofouling. Biofouling in heat exchangers and cooling tower fill reduces heat transfer efficiency leading to higher energy costs. Biofouling can also damage equipment through microbiologically influenced corrosion (MIC) and force unscheduled shutdowns, or extended turnarounds, resulting in lost production.

Biofouling in cooling system can provide an ideal environment for proliferation of *Legionella* bacteria, the cause of Legionnaires disease. Halogens have been recommended by various agencies as an integral part of Legionella Risk Reduction programmes. BioMate 5702 provides a significant halogen residual that can be measured with a standard chlorine test. The active in BioMate 5702 has proven highly effective against *Legionella* bacteria in laboratory tests. However, chemical treatment alone will not be effective in reducing health hazards associated with *Legionella* bacteria. System design, location, maintenance practices and awareness of personnel are essential elements of a successful risk reduction programme.

Water Technologies & Solutions fact sheet

typical applications

BioMate 5702 may be used on a continuous or intermittent basis, and may be used in a programme which includes non-oxidising biocides.

BioMate 5702 is applied as a disinfectant, fungicide and/or slimeicide for commercial and industrial recirculating cooling water systems.

treatment and feeding requirements

Proper treatment levels of BioMate 5702 depend on many factors, such as system cleanliness, microbial species, nutrient concentration, temperature, and conditions particular to a given installation. The product should be used in accordance with control procedures that SUEZ establishes for a specific application.

Feed is controlled by a simple and accurate free or total chlorine test, or on line free or total halogen analyser.

Equipment recommendations are available upon request.

general properties

Physical properties of BioMate 5702 are shown on the Safety Data Sheet, a copy of which is available upon request.

packaging information

BioMate 5702 is a liquid, available in a variety of containers and delivery methods. Contact your SUEZ representative for details.

storage

BioMate 5702 should be stored in a well ventilated area. Protect from freezing, extreme heat and direct sunlight. Store away from acids, reducing agents and combustible material. Keep containers closed when not in use. Because of potential build up of pressure with time, the product is supplied in vented containers.

safety precautions

A Material Safety Data Sheet containing detailed information about this product is available on request.

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