



MBC-PDS-NA-Biosperse 250-R9

Biosperse™ 250 microbiocide

Product Description

Biosperse™ 250 microbiocide is a broad-spectrum antimicrobial product designed specifically for control of bacteria, fungi and algae in industrial recirculating cooling water systems such as cooling towers, pasteurizers, air washers and evaporative condensers and for use as a preservative in aqueous metalworking fluids.

Biosperse 250 is an effective microbiocide for controlling slime forming bacteria, sulfate reducing bacteria, yeast and fungi in oil field injection water and other oil field water systems.

Biosperse 250 provides:

- a. Broad spectrum control of microorganisms in cooling water systems, metalworking fluids and oil field injection waters.
- b. Easy handling as a liquid form.
- c. Effectiveness at low concentrations.
- d. Resistance to the inhibitory effect of organic and inorganic compounds.
- e. Decomposition in the aquatic environment.

Biosperse 250 is not recommended for use in potable water systems or where contamination of potable water can occur.

This bulletin is designed to assist you in the use of Biosperse 250. It includes properties of Biosperse 250, application rates and procedures and information on toxicity and disposal.

Solenis offers the services of trained professional personnel to assist in the determination of levels and rates of treatment to provide an efficient and economical slime-control program.

Testing and Control

The dosage of Biosperse 250 required for a specific application will depend upon a number of factors including: the nature and extent of the microbiological contamination, the type and volume of the system being treated, the degree of control desired, and retention time in the system. Where necessary, your

Solenis representative will arrange for microbiological and chemical analysis, so that technical advice can be given concerning specific site problems.

Product Application

Industrial Recirculating Cooling Water Systems

For control of microorganisms add 25-100 ppm (0.21-0.84 pounds or 3.1-12.6 fluid ounces per 1,000 gallons of water) of Biosperse 250 to the system. The amount of antimicrobial required will depend on the nature and extent of contamination, quality of the makeup water, and the degree of control required.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, apply 50-100 ppm (0.42-0.84 pounds or 6.3-12.6 fluid ounces per 1,000 gallons of water) of Biosperse 250 to the system. Repeat periodically until control is achieved. Badly fouled systems must be cleaned before treatment is begun.

Subsequent Dose: When microbial control is evident, add 25-50 ppm (0.21-0.42 pounds or 3.1-6.3 fluid ounces per 1,000 gallons of water) of Biosperse 250 to the system weekly or as needed to maintain control.

Pasteurizers

Dosages for industrial recirculating cooling water systems associated with pasteurizers will vary depending upon the condition of the pasteurizer when treatment is begun, and the retention time in the system.

In general, Biosperse 250 should be slug fed at dosages of 0.21 to 0.84 pounds (3.1 to 12.6 fluid ounces) per each 1,000 gallons of water in the system.

For pasteurizers, Biosperse 250 should be added into the pre-cool reservoir or any other convenient point in the system which will allow for good distribution.

Continued on page 2.

Enhanced Oil Recovery

Initial Dose: Apply 50-100 ppm (17.45-34.90 pounds or 2.03-4.06 gallons per each 1,000 barrels of water) of Biosperse™ 250 microbiocide one to four times per week or as needed to achieve control.

Maintenance Dose: When microbial control is evident, add 10-80 ppm (3.44-27.95 pounds or 0.40-3.20 gallons per each 1,000 barrels of water) of Biosperse 250 one to four times per week or as needed to maintain control. Additions of Biosperse 250 may be made at the free water knockouts, before or after the injection pumps and injection well headers or at any point from which uniform mixing throughout the system can be achieved.

Metalworking Fluids

To maintain an uncontaminated system, a minimum dosage level of approximately 225 ppm (1.93 pounds or 29 fluid ounces per 1,000 gallons of water) of Biosperse 250 every four weeks would be appropriate. Every eight to twelve weeks, 250-1200 ppm (2.07-9.94 pounds or 31-148 fluid ounces per 1,000 gallons of water) of Biosperse 250 would be appropriate. For a noticeably fouled system, an initial treatment at a dosage range of 500-1160 ppm (4.14-9.63 pounds or 62-143 fluid ounces per 1,000 gallons of water in the system) would be suitable followed by maintenance dosages. Higher dosages and more frequent treatments may be needed, depending on the rate of dilution of the preservative in the makeup fluid, the nature and severity of contamination, the level of control required, the effectiveness of filtration and the system design.

Packaging

This product is available in a variety of packaging sizes. Your Solenis representative will recommend the appropriate packaging for the application.

Important Information

Typical Properties: Refer to the Safety Data Sheet (SDS).

Regulatory Information: Refer to the SDS or contact your sales representative for any additional regulatory and environmental information.

Safety: Solenis maintains an SDS for all of its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers.

Our SDS should be read and understood by all of your supervisory personnel and employees before using Solenis products in your facilities.