

Biosperse[®] 250

BIOCIDE
ONLY

ACCEPTED
JUN 23 1980
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 115147

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes eye and skin damage.
Harmful if swallowed or absorbed through
skin. May cause allergic skin reaction. May
be harmful if inhaled.

Do not get in eyes, on skin, on clothing.
Wear goggles or face shield and rubber
gloves when handling. Avoid breathing
vapor or mist. Avoid contamination of food.
Do not take internally. Wash thoroughly
after handling.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not dis-
charge treated effluent into lakes, streams,
ponds or public waters unless in accord-
ance with an NPDES permit. For guidance,
contact your Regional Office of the EPA.

NOTE: Refer to the Biosperse 250 Product
Data Sheet for use directions and other
technical information.

NET CONTENTS 55 Gallons (200 L)



Water Treatment Compound, Liquid

Drew Chemical Corporation
One Drew Chemical Plaza, Boonton, New Jersey 07005



Cooling Water Treatment

Product Data

Biosperse 250

ACCEPTED
JUN 23 1980
The United States Federal Government
has approved this product as a
Fungicide and Rodenticide as
amended for the pesticide
registered under
EPA Reg. No.

Introduction

Biosperse 250 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, air washers and evaporative condensers and for use as a preservative in aqueous metal working fluids.

Biosperse 250 provides:

- a broad spectrum control of microorganisms in cooling water systems, metal working fluids, and other aqueous systems.
- effective control of water contamination.
- resistance to the development of resistant strains of microorganisms.
- no toxic deposits on the equipment.

Biosperse 250 is not recommended for use in potable water systems or where contamination of surface water is a concern. The product is designed for use in industrial cooling water systems. It includes properties of Biosperse 250 appropriate for rates and procedures and information on toxicity and disposal. A few of the uses are listed. For more details, contact professional personnel to assist in the determination of level and rate of treatment for your specific cooling water system or surface water body.

Typical Chemical and Physical Properties

Composition	Aqueous solution of active ingredients
Appearance	Clear, colorless liquid
Specific Gravity	1.00
Boiling Point	100°C (212°F)
Melting Point	0°C (32°F)
Freezing Point	0°C (32°F)
Stability	Stable in water for 12 months
Shelf Life	12 months

Dosage

The dosage of Biosperse 250 is based on the concentration of the active ingredients in the cooling water system. The dosage is expressed in fluid ounces per 1000 gallons of water. The dosage is based on the concentration of the active ingredients in the cooling water system. The dosage is expressed in fluid ounces per 1000 gallons of water.

Application

Industrial Recirculating Cooling Water Systems

For control of microorganisms add 0.21 to 0.84 pounds (3.1 to 12.6 fluid ounces) of Biosperse 250 per 1000 gallons of water in the system. The amount of antimicrobial required will depend on the nature and extent of contamination, quality of the make-up water, and the degree of control required.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, apply 0.42 to 0.84 pounds (6.3 to 12.6 fluid ounces) of Biosperse 250 per 1000 gallons of water in 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 0.21 to 0.42 pounds (3.1 to 6.3 fluid ounces) of Biosperse 250 per 1000 gallons of water in the system weekly, or as needed to maintain control.

Metal Working Fluids

For control of microorganisms in metal working fluids, add 0.21 to 0.84 pounds (3.1 to 12.6 fluid ounces) of Biosperse 250 per 1000 gallons of water in the system. The amount of antimicrobial required will depend on the nature and extent of contamination, quality of the make-up fluid, and the degree of control required. The effect depends on filtration and the system design.

Suggested First Aid Measures

Eye: Exposure: Flush IMMEDIATELY with copious amounts of water for at least 15 minutes with the eyes held open. Get prompt medical attention. **Do Not Flush First.**

Skin: Exposure: Flush IMMEDIATELY with plenty of water for at least 15 minutes. Remove all clothing contaminated with the fluid. Wash skin with soap and water.

Inhalation: Remove person to fresh air. If breathing is difficult, give oxygen and artificial respiration if necessary.

Ingestion: Give large quantities of milk, egg white, or gelatin if available. If these are not available, large quantities of water. **DO NOT INDUCE VOMITING.** Do not swallow anything to induce vomiting. **DO NOT TAKE ANY LIQUID.** After swallowing, give large quantities of water. Measures against shock should be taken. Get medical attention immediately.

Suggested Handling of Spills

Personnel cleaning up spills should wear overshoes and protective clothing. The spilled material is diked and absorbed in an inert solid such as sand, sawdust or vermiculite. The absorbent is then shoveled into a pair of drums and treated with enough decontaminant solution to wet the solid thoroughly. Let these containers stand open for 48 hours to avoid the buildup of pressure, then seal and dispose

of it as land. The decontaminated area is washed with a 1% sodium decontaminant solution and then flushed into a sewer. Do not discharge spills and cleaning runoffs into municipal sewers and open bodies of water. Small spills can be treated with hypochlorite and flushed with water into a chemical sewer. The recommended decontaminant solution is 8 lb calcium hypochlorite (65% active ingredient) per 100 lb sodium hydroxide (40%) and 77 lb water.

EPA Reg. No. 1757-67

