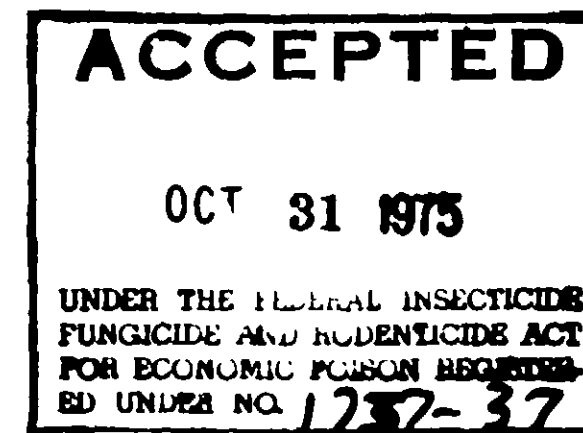


# BIOSPERSE<sup>®</sup> 289

## FOR CONTROL OF SLIME, BACTERIA AND FUNGI



EPA EST. NO.  
1757-NJ-1  
1757-NJ-2  
1757-TX-1

### FOR INDUSTRIAL USE ONLY

<b>ACTIVE INGREDIENTS</b> . . . . .	<b>10%</b>
Methylene bis (thiocyanate) . . . . .	5%
2, 4, 5 - Trichlorophenol . . . . .	5%
<b>INERT INGREDIENTS*</b> . . . . .	<b>90%</b>

\* Includes Defoaming and Dispersing Agents.

E.P.A. Reg. No. 1757-37-AA



**Drew Chemical Corporation**  
701 Jefferson Rd. Parsippany, N.J. 07054  
Subsidiary of United States Filter Corporation

BIOSPERSE 289 microbiocide is a free flowing powder, effective in controlling bacterial and fungal slime growth in industrial recirculating water cooling towers and air washers.

Apply this product only as specified on the BIOSPERSE 289 Product Data Sheet accompanying this product.

This product is toxic to fish and wildlife. Treated effluent should not be discharged where it will drain into lakes, streams, ponds or public water.

Do not reuse empty container. Container should be destroyed by perforation or crushing. Discard container in a safe place.

Contents - 400 POUNDS Net Weight

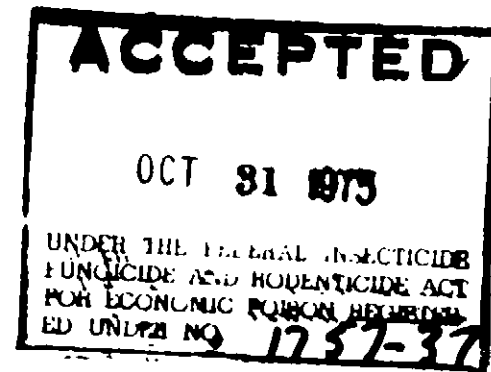
### WARNING

#### KEEP OUT OF REACH OF CHILDREN

This product may be harmful if swallowed or inhaled. May cause irritation of nose, throat and skin. Avoid breathing dust. Use with adequate ventilation. Keep container closed. Causes eye irritation: May cause eye damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Do not take internally. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes and get medical attention. Remove and wash contaminated clothing before re-use. In case of swallowing, induce vomiting by administering warm salt water or other emetic. Call a physician.

Water & Waste Treatment Division  
**Drew Chemical Corporation**  
701 Jefferson Rd., Parsippany, N. J. 07054

**PRODUCT  
DATA SHEET**  
BIO-DS-23



## **BIOSPERSE® 289**

### **GENERAL**

BIOSPERSE 289 microbiocide is a free flowing dry formulation that has a high degree of activity against slime producing bacteria, yeast and mold. This potent slime control toxicant may be used at economical dosages in industrial recirculating water cooling systems, especially air washers and cooling towers.

BIOSPERSE 289 microbiocide is a synergistic blend of a thiocyanate compound, polychlorophenol, and anti-foaming agents. Specially selected dispersants have been added to insure rapid solubility and distribution of the material throughout the water system and to permit efficient diffusion of active materials into slime masses.

BIOSPERSE 289 microbiocide is not recommended for potable water systems or where contamination of potable water can occur.

### **DESCRIPTION**

Composition	A dry, synergized blend of Methylene Bisthiocyanate, Polychlorophenol, Dispersant and Anti-Foaming Agents.
Appearance	A tan powder
Odor	Mild
pH (1% solution)	2.0 - 3.0
Storage	Store in a dry place. Retie polyethylene liner after each use and keep container closed.
Packaging	400 pound polyethylene lined fiber drums.

### **DOSAGE**

The dosage of BIOSPERSE 289 microbiocide for any given application will depend upon a number of factors such as the type of system being treated, the nature and extent of microbiological contamination, and the degree of control required. Generally, dosages are in the range of 50-200 ppm of product for industrial recirculating water cooling systems. Badly fouled systems must be cleaned before treatment is begun. Where necessary, your Drew Representative will arrange for microbiological and chemical analysis, so that technical advice can be given concerning specific site problems.

## COOLING TOWERS, EVAPORATIVE CONDENSERS AND AIR WASHERS

### Initial Dose:

Apply 1.3 to 1.7 lbs. (0.6 to 0.8 kg) of BIOSPERSE 289 per 1000 gallons of water in the system. If the water is not recirculated, the amount of water to be treated must be increased accordingly.

### Subsequent Dose:

When maintenance is required, apply 0.4 to 0.6 lbs. (0.2 to 0.3 kg) of BIOSPERSE 289 per 1000 gallons of water in the system. If the water is not recirculated, the amount of water to be treated must be increased accordingly. Apply a minimum treatment level of BIOSPERSE 289 to all water in the system to protect the system from bacteria.

### FEEDING

BIOSPERSE 289 is not intended for use as a feed supplement for water and should not be used in any suitable feed system. BIOSPERSE 289 is not intended for use in any pump or basin in contact with water where good insulation is not provided. For more information concerning specific requirements, contact your Drexel Fluid Control Division.

### HANDLING

BIOSPERSE 289 is a probiotic and may be harmful if swallowed or inhaled. Avoid contact with nose, throat and skin. Avoid breathing dust. Use with adequate ventilation. Keep container closed. Causes eye irritation, may cause eye damage. Do not get in eyes, nose or mouth. Wear goggles or face shield, and rubber gloves when handling. Do not take after this. In case of contact, immediately flush eyes or skin with plenty of water, for at least 15 minutes, and get medical attention. Remove and wash contaminated clothing before reuse. In case of swallowing, induce vomiting by drinking plenty of water or other emetic. Call a physician.

### ENVIRONMENTAL CAUTION

This product is toxic to fish and wildlife. Treatment effluent should not be discharged into streams, rivers, lakes, streams, ponds, or public water.

Do not contaminate water supply lines or equipment for disposal of water.

E. P. A. Reg. No. 1757-17-AA