

ACCEPTED

NOV-7 1989

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1757-99

BIOSPERSE 212

**MICROBIOCIDES
FOR INDUSTRIAL USE ONLY**

This product provides excellent control over algae, bacterial and fungal slime formation in cooling towers and similar recirculating cooling water systems. The product also provides effective microbiocidal control in all field water systems and in industrial recirculating water systems such as pasteurizers.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Refer to the BIOSPERSE 212 microbiocide Product Data Sheet for use directions and other technical information.

STORAGE AND DISPOSAL

STORAGE Do not contaminate water, food, or feed by storage or disposal. Avoid extreme heat or freezing. Keep container closed.

DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Triple rinse (or equivalent) all containers then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic containers may also be disposed of by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.



Drew Industrial Division
A DREW INDUSTRIES COMPANY
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Manufactured in the United States

ACTIVE INGREDIENTS:

n-Alkyl 140% C ₁₂ , 50% C ₁₄ , 10% C ₁₆	
Dimethyl Benzyl Ammonium Chlorides	52 %
n-Alkyl 60% C ₁₂ , 30% C ₁₄ , 5% C ₁₆ , 5% C ₁₈	
Dimethyl Benzyl Ammonium Chlorides	42 %
n-Alkyl 60% C ₁₂ , 30% C ₁₄ , 5% C ₁₆ , 5% C ₁₈	
Methyl Benzyl Ammonium Chlorides	08 %
INERT INGREDIENTS	60 %

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

If swallowed, promptly drink a large quantity of milk, beaten egg whites or gelatin solution. If these are not available, drink large quantities of water. Call a physician at once. Never give an unconscious person anything by mouth.

If on Skin: Immediately flush contacted area with copious quantities of water for at least 15 minutes. Remove and wash contaminated clothing. If in Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Reg. No. 1757-99
EPA Est. No. 1757-NJ-1
1757-NJ-2
1757-TX-1

PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

DANGER

**CORROSIVE
CAUSES EYE AND SKIN DAMAGE
HARMFUL IF SWALLOWED OR
ABSORBED THROUGH SKIN**

Do not get in eyes, on skin or on clothing. Keep container closed when not in use. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling. See statement of practical treatment on front panel.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine and fields. Do not discharge treated effluent into lakes, streams, ponds or public waters or seas in accordance with applicable permit. For guidance contact your Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Do not store near heat or open flame.

NET WEIGHT MARKED ON DRUM

CAUTION: This pesticide is highly toxic to fish and aquatic life. Do not apply in marine and/or estuarine and fields. Do not discharge treated effluent into lakes, streams, ponds or public waters or seas in accordance with applicable permit. For guidance contact your Regional Office of the EPA.

BEST AVAILABLE COPY

Microbiocide

GENERAL

BIOSPERSE® 212 microbiocide provides excellent control of the broad spectrum of microorganisms commonly found in industrial water. It is a potent slimicide designed for the control of algal, bacterial and fungal growths in recirculating cooling water systems. The product contains solubilizing and dispersing agents which insure good distribution throughout the system and efficient penetration of the slime masses.

BIOSPERSE 212 is an effective microbiocide for controlling growth of slime-forming bacteria and fungi in industrial recirculating water systems, such as pasteurizers.

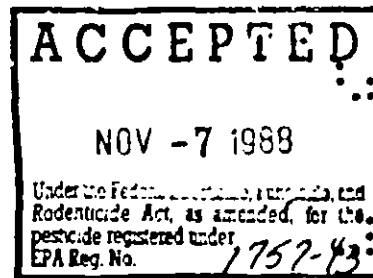
BIOSPERSE 212 is an effective microbiocide for controlling slime-forming bacteria, sulfate-reducing bacteria and fungi in oil field injection water and other oil field water systems.

BIOSPERSE 212 is an effective microbiocide for control of fungal attack on cooling tower lumber.

BIOSPERSE 212 is not to be used in potable water systems or where contamination of potable water may occur.

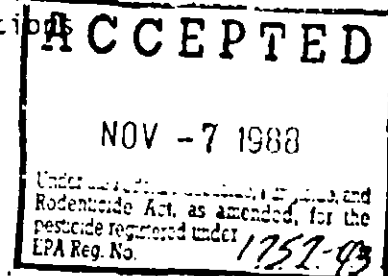
TYPICAL PROPERTIES

Composition:	A blend of specially selected quaternary ammonium salts, other complex amine salts and dispersing and solubilizing agents
Appearance:	Clear, light straw colored liquid
Odor:	Mild
Flash Point:	160°F (PMCC)
Freezing Point:	25°F/-3.9°C
pH:	6.5/Neat
Specific Gravity:	1.003 at 25°C
Weight per U.S. Gallon:	8.37 pounds



TYPICAL PROPERTIES (Con't)

Solubility: Miscible with water in all proportions
Storage: Avoid extreme heat or freezing
Packaging: 5⁵ gallon steel drums



DOSAGE.

The amount of BIOSPERSE® 212 microbiocide required for any given application will depend upon a number of factors including: the nature and extent of the microbiological contamination, the type of system being treated and the degree of control required. Where necessary, your Drew representative will arrange for microbiological and chemical analyses and offer technical advice concerning specific site problems.

APPLICATION

Cooling Water Systems

Dosages for cooling towers will depend upon the condition of the tower when treatment is begun and the retention time in the system. For preventative maintenance, apply to a clean system or when growth is first noticed. Systems having heavy growths should be cleaned before initial treatment. In general, BIOSPERSE 212 is effective at dosages of 60-120 ppm of product. This is attained by using one half to one pint of product per each 1,000 gallons of water in the system. Treatment is usually done once, twice or three times per week or as required to prevent the growth of slime-forming microorganisms. Once the bulk of slime has been eliminated, slug dosages of 30 ppm (1/4 pint per 1,000 gallons), daily or every other day will usually maintain the system in excellent condition.

Fungi Control - Cooling Towers

The wooden structures of the tower should be thoroughly wetted by spraying a dilute solution of BIOSPERSE 212 microbiocide (1-10% concentration). Before spraying, isolate the tower cell to be treated and shut down the fan. As a guideline, treat the tower wood once a year, as described. Depending upon the severity of the condition, more frequent application may be necessary.

Enhanced Oil Recovery

Initial Dose: Apply 3.33 to 4.99 gallons of BIOSPERSE 212 (80-120 ppm) per 1,000 barrels of water.

Maintenance Dose: When microbial control is evident, add 0.42 to 3.33 gallons of BIOSPERSE 212 (10-80 ppm) per 1,000 barrels of water to maintain good control.

Pasteurizers

Dosages for pasteurizers will vary depending upon the condition of the pasteurizer when treatment is begun and the retention time in the system. In general, BIOSPERSE 212 should be slug fed at dosages of 30-120 ppm (1/4 to 1 pint per 1,000 gallons) as needed.

FEEDING

BIOSPERSE® 212 microbiocide may be fed directly from the drum or diluted with water and fed by any suitable chemical feed system. For slug feeding in cooling towers, it should be dumped directly into the sump or at any other convenient location where good distribution can be assured. For pasteurizers, product should be added into the pre-cool reservoir or any other convenient point in the system which will allow good distribution.

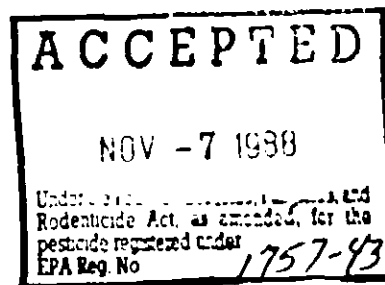
IMPORTANT INFORMATION

Drew maintains Material Safety Data Sheets (MSDS) on all of our products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products.

We recommend that you obtain our Material Safety Data Sheet which should be read and understood by all supervisory personnel and employees before using this product in your facilities.

EPA Reg. No. 1757-43

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BIOSPERSE is a registered trademark of Drew.

