

ACCEPTED
1757-46

CHLORINE
TABLETS

BIOSPERSE 231

WATER TREATMENT MICROBIOCIDES FOR CONTROL OF THE GROWTH OF BACTERIA AND ALGAE

FOR INDUSTRIAL USE ONLY

BIOSPERSE® 231 WATER TREATMENT MICROBIOCIDES is a slowly dissolving, tableted form of trichloro-s-triazinetriene useful in controlling the growth of bacteria and algae in industrial recirculating water cooling towers, air washers, pasteurizers and evaporative condensers.

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 231 Product Data Sheet for use directions and other technical information.

STORAGE AND DISPOSAL

Keep product dry in tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. In case of decomposition isolate container, if possible, and flood with large amounts of water to dissolve all material before discarding. Place in trash collection or dispose in approved land fill area, or bury in a safe place.

ACTIVE INGREDIENT	
*Trichloro-s-triazinetriene	99.0%
INERT INGREDIENTS	1.0%

*Available Chlorine 89% min

**KEEP OUT OF REACH OF CHILDREN
DANGER**

STATEMENT OF PRACTICAL TREATMENT

FIRST AID

If swallowed: feed bread soaked in milk followed by olive oil or cooking oil. Call a physician immediately.

If on skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

If in eyes: Flush with cold water for at least 15 minutes. Get medical attention.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

BIOSPERSE 231 WATER TREATMENT MICROBIOCIDES is a slowly dissolving, tableted form of trichloro-s-triazinetriene useful in controlling the growth of bacteria and algae in industrial recirculating water cooling towers, air washers, pasteurizers and evaporative condensers. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Refer to the Biosperse 231 Product Data Sheet for use directions and other technical information. Keep product dry in tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame. In case of decomposition isolate container, if possible, and flood with large amounts of water to dissolve all material before discarding. Place in trash collection or dispose in approved land fill area, or bury in a safe place.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS **DANGER**

Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not get on or near rivers, lakes, streams, ponds or public waters unless you have a permit with a NPDES permit. For guidelines, contact your Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS STRONG OXIDIZING AGENT

Mixing with water. Use clean dry utensils. Do not add this product to any dispensing device containing remaining of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of fire and explosion. In case of contamination or decomposition, do not reuse container. If possible, isolate container in open, well ventilated area. Flood with large volumes of water, if necessary.

Contents: 8 Ounce Tablets
Net Weight as Marked on Drum



Drew Chemical Corporation
One Drew Chemical Plaza, Bonton, New Jersey 07005
Manufactured in the United States
E5403 R 262 P A

EPA Reg. No. 1757-46-AA
EPA Est. No. 1757-NJ-1
1757-NJ-2
1757-TX-1

1757-46
1982
DIVISION



Trichloro

CHLORINE
TABLETS

BIOSPERSE™ 231

FOR CONTROL OF THE GROWTH OF BACTERIA AND ALGAE FOR INDUSTRIAL USE ONLY

BIOSPERSE 231 is a slowly dissolving, tableted form of trichloro-s triazinetrione useful in controlling the growth of bacteria and algae in industrial recirculating water cooling towers, air washers, pasteurizers and evaporative condensers.

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Refer to the Biosperse 231 Product Data Sheet for use directions and other technical information.

STORAGE AND DISPOSAL

Keep product dry in tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat or open flame. In case of decomposition isolate container, if possible, and flood with large amounts of water to dissolve all material before discarding. Place in trash collection or dispose in approved land fill area, or bury in a safe place.

ACTIVE INGREDIENT

*Trichloro-s triazinetrione 94.0

INERT INGREDIENTS

10.0

*Available in 100 lb. drums only.

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

FIRST AID

If swallowed: feed bread soaked in milk followed by olive oil or cooking oil. Call a physician immediately.

If on skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

If in Eyes: Flush with cold water for at least 15 minutes. Get medical attention.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

THIS PRODUCT IS A PESTICIDE AS DEFINED BY THE FEDERAL INSECTICIDE ACT AND THE FEDERAL FUNGICIDE ACT. IT IS REGISTERED WITH THE U.S. ENVIRONMENTAL PROTECTION AGENCY UNDER THE FEDERAL INSECTICIDE ACT AND THE FEDERAL FUNGICIDE ACT. IT IS SUBJECT TO THE REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY. THIS PRODUCT IS TO BE USED ONLY IN ACCORDANCE WITH THE LABELING THEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOWING THE LABELING. THE USER SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOWING THE LABELING. THE USER SHALL BE RESPONSIBLE FOR OBTAINING AND FOLLOWING THE LABELING.

EPA Reg. No. 1757-36-AA
EPA Est. No. 1757-1-11
1757 NJ 2
1757 TX 1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
AND DOMESTIC ANIMALS

DANGER

Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge treated effluent into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT

Mix only with water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of fire and explosion. In case of contamination or decomposition, do not reuse container. If possible, isolate container in open air or well-ventilated area. Flood with large volumes of water, if necessary.

Contents: 80 Chlorine Tablets
Net Weight as Marked on Drum



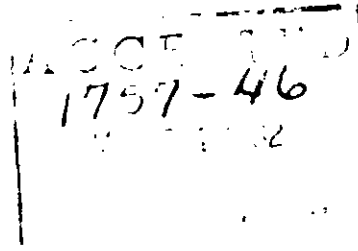
Drew Chemical Corporation

One Drew Chemical Plaza, Burlington, New Jersey 07005

In Use in the United States
EPA Reg. No. 1757-36-AA

Product Data

BIOSPERSE® 231
MICROBIOCIDES



GENERAL INFORMATION

BIOSPERSE® 231 is a dry tablet containing a minimum of 89% available chlorine which is designed to dissolve slowly, providing a continuous source of chlorine for controlling the growth of bacteria and algae in industrial recirculating water cooling towers, air washers, pasteurizers, and evaporative condensers.

TYPICAL PROPERTIES

Appearance:	White tablet (3" diameter)
Available Chlorine:	89% minimum
pH 1% Solution:	2.7 - 2.9
Melting Point:	225 - 230°C
Weight per Tablet:	220 - 230 grams (7.75 - 8.10 grams)

DOSAGE

The quantity of BIOSPERSE® 231 required for any given application will depend on such factors as the type and volume of the system, the extent of microbiological contamination, the degree of control required and the chlorine demands of the system. (Procedure for Chlorine Demand according to Standard Methods for the Examination of Water and Waste Water, 13th Edition, 1971, American Public Health Association, Washington, DC.)

Badly fouled systems should be cleaned prior to initiating treatment.

Cooling Towers & Evaporative Condensers

Initial Dosage:

When the system is just noticeably fouled, immerse one (1) tablet (7.75 to 8.10 ounces or 220 to 230 grams) of BIOSPERSE® 231 per 10,000 gallons of water contained in the system. Repeat this initial dosage if necessary until the chlorine demand is satisfied and a

chlorine residual of 0.5 to 1.0 ppm (as determined by the use of a chlorine test) is established.

Subsequent Dosage:

To maintain a chlorine residual of 0.5 to 1.0 ppm, add 0.8 to 1.6 ounces (22.7 - 45.4 grams) of BIOSPERSE® 231 per 10,000 gallons of water daily or as needed as determined by use of a chlorine test.

Air Washers

In treating air washers, preclean by introducing a suitable detergent solution into the system and allow air washer to run with fan off for two hours. Flush. Check all nozzles and manually clean those that are plugged. Heavily contaminated systems should be cleaned prior to treatment. To control slime-forming bacteria, add BIOSPERSE® 231 according to the following schedule:

Initial Dosage:

When the system is noticeably fouled, immerse one (1) tablet (7.75 to 8.10 ounces or 220 to 230 grams) of BIOSPERSE® 231 per 10,000 gallons of water contained in the system. Repeat this initial dosage if necessary until the chlorine demand is satisfied and a chlorine residual of 0.5 to 1.0 ppm (as determined by the use of a chlorine test) is established.

Subsequent Dosage:

To maintain a chlorine residual of 0.5 to 1.0 ppm, add 0.8 to 1.6 ounces (22.7 - 45.4 grams) of BIOSPERSE® 231 per 10,000 gallons of water daily or as needed as determined by use of a chlorine test.

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® 231 should be added to pasteurizers according to the following schedule:

Initial Dosage:

When the system is noticeably fouled, immerse one (1) tablet (7.75 to 8.10 ounces or 220 to 230 grams) of BIOSPERSE® 231 per 10,000 gallons of water contained in the system. Repeat this initial dosage if necessary until the chlorine demand is satisfied and a chlorine residual of 0.5 to 1.0 ppm (as determined by the use of a chlorine test) is established.

Subsequent Dosage:

To maintain a chlorine residual of 0.5 to 1.0 ppm, add 0.8 to 1.6 ounces (22.7 - 45.4 grams) of BIOSPERSE® 231 per 10,000 gallons of water daily or as needed as determined by use of a chlorine test.

FEEDING

BIOSPERSE® 231 tablets should be immersed in the system at a point where adequate flow is maintained. For pasteurizers, BIOSPERSE® 231 tablets should be added into the pre-cool reservoir or at any other convenient point in the system which will allow for good distribution. Variations in water temperature, chlorine demand, and flow rate will affect the dissolution rate of the tablet.

During warmer seasons, the growth of algae and bacteria may increase, requiring upward adjustments of chlorine residuals. In all cases, the available chlorine residual must be carefully monitored (various methods are included in Standard Methods for the Examination of Water and Waste Water, 13th Edition, 1971, American Public Health Association, Washington, DC) to ensure adequate treatment and control.

STORAGE AND DISPOSAL

Keep BIOSPERSE® 231 dry in tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat, open flame, or oxidizable materials. Decomposition will occur at temperatures above 220°C. In case of decomposition, isolate container, if possible, and flood with large amounts of water to dissolve all material before discarding. Place in trash collection or dispose in approved landfill area, or bury in a safe place. To prevent contamination and loss of potency, the polyethylene liner should be retied and the lid securely replaced.

HANDLING

Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

Strong Oxidizing Agent - mix only with water. Use clean, dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction, with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood with large volumes of water, if necessary.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge treated effluent into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified in this bulletin.

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U.S. DEPARTMENT OF AGRICULTURE
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REGISTRATION DIVISION
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