



# BIOSPERSE<sup>®</sup>

## FOR CONTROL OF THE GROWTH OF BACTERIA FOR INDUSTRIAL USE ONLY

BIOSPERSE 231 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, and evaporative condensers. Apply this product only as specified on the BIOSPERSE 231 Product Data Sheet accompanying this product.

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

Contents: 8 Ounce Tablets  
Net Weight as Marked on Drum

ES-503

### ACTIVE INGREDIENT:

Trichloro-S-triazinetriene . . . . . 100%

Available Chlorine: 89.7%

EPA Reg. No. 1757-46-AA

*Distributed by:*

**Drew Chemical Corporation**

Subsidiary of



**UNITED STATES FILTER  
CORPORATION**

701 JEFFERSON ROAD, PARSIPPANY, N. J. 07054

# SPERSE<sup>®</sup> 231

1757-NJ-1  
1757-NJ-2  
1757-TX-1

## INHIBITOR OF THE GROWTH OF BACTERIA AND ALGAE

### FOR INDUSTRIAL USE ONLY

### DANGER

#### ACTIVE INGREDIENT:

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Available Chlorine: 89.7%

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**KEEP OUT OF REACH OF CHILDREN  
STRONG OXIDIZING AGENT**

Contact with organic matter may cause fire — mix only with water. May cause eye damage. Do not get in eyes. If in eyes, rinse with cold water, call physician. May cause burns on wet or broken skin. Rinse hands after handling. May be fatal or harmful if swallowed. Avoid inhalation of dust and vapors. Keep product dry — contact with water slowly liberates irritating and hazardous chlorine containing gases. Do not reuse container. Rinse thoroughly with water and discard in a safe place.

WATER & WASTE TREATMENT DIVISION  
**Drew Chemical Corporation**

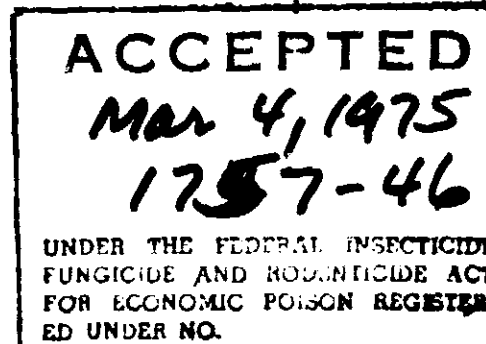
UNITED STATES FILTER

PRODUCT  
DATA  
SHEET BIO-DS-40



WORLDWIDE SERVICE

**BIOSPERSE® 231**



**GENERAL**

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 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 ounces)



**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 demand 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, Wash., D.C.).

Badly fouled systems should be cleaned prior to initiating treatment.

**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 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. 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 adjustment 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, D.C.) to ensure adequate treatment and control.

#### **STORAGE**

BIOSPERSE 231 should be stored in a cool, dry area away from oxidizable materials. Decomposition will occur at temperatures above 220 °C. To prevent contamination and loss of potency the polyethylene liner should be retied and the lid securely replaced.

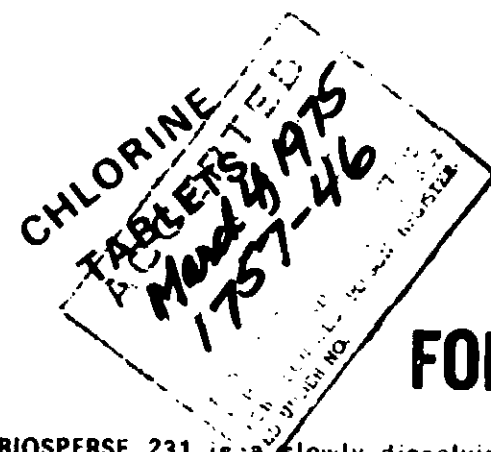
#### **HANDLING**

Contact with organic matter may cause fire – mix only with water. May cause eye damage. Do not get in eyes. If in eyes, rinse with cold water, call physician. May cause burns on wet or broken skin. Rinse hands after handling. May be fatal or harmful if swallowed. Avoid inhalation or dust and vapors. Keep product dry – contact with water slowly liberates irritating and hazardous chlorine containing gases. Do not reuse container. Rinse thoroughly with water and discard in a safe place.

#### **ENVIRONMENTAL CAUTIONS**

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

E.P.A. Reg. No. 1757-46-AA



# BIOSPERSE<sup>®</sup> 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, and evaporative condensers. Apply this product only as specified on the BIOSPERSE 231 Product Data Sheet accompanying this product.

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

Contents: 8 Ounce Tablets  
Net Weight as Marked on Drum

ES 723

## ACTIVE INGREDIENT:

Trichloro-S-triazinetrione . . . . . 100%

Available Chlorine: 89.7%

EPA Reg. No. 1757-46-AA

Distributed by:

**Drew Chemical Corporation**

UNITED STATES FILTER

11 JEFFERSON ROAD, PARSIPPANY, N. J. 07054

## KEEP OUT OF STRONG O

Contact with organic  
mix only with water.  
Do not get in eyes.  
cold water, call ph  
on wet or broken  
handling. May be  
lowed. Avoid inhal  
Keep product dry -  
liberates irritating  
containing gases.  
Rinse thoroughly w  
a safe place.

# BIOSPERSE<sup>®</sup> 231

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

**DANGER**

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STRONG OXIDIZING AGENT**

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**ACTIVE INGREDIENT:**

Trichloro-S-triazinetriazole 100%  
Available Chlorine 89.7%

EPA Reg. No. 1757-40-0000

*Distributed by*

**Drew Chemical Corporation**

UNITED STATES FILTER

REGISTERED AT TRADEMARK IN U.S.A.

slowly dissolving, tableted form  
is useful in controlling the  
growth of bacteria and algae in  
industrial recirculating  
air washers, and evaporative  
cooling towers. Use only as specified on  
the Data Sheet accompanying  
this product.

After use, treated effluent should  
be allowed to drain into lakes,  
streams, or water.

100% Tablets  
Marked on Drum