

BIOSPERSE® 284

MICROBIOCIDE FOR INDUSTRIAL USE ONLY

This product is active against slime forming bacteria, sulfate reducing bacteria, algae and fungi in industrial recirculating water cooling towers, air washers, pasteurizers, evaporative condensers and oil field water systems

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® 284 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. Containers should be stored in a cool, dry, well ventilated area away from flammable materials and sources of heat or flame. Store away from foodstuffs or animal feed. Exercise due caution to prevent damage to or leakage from the container. Do not store above 103°F (39°C).

PESTICIDE DISPOSAL:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate 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.

CONTAINER DISPOSAL:

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.

Manufactured in the United States
E3-501A-12/84

ACTIVE INGREDIENTS:

Methylene bis (thiocyanate) 10.0%
INERT INGREDIENTS* 90.0%

*Includes dispersing agents.

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. Avoid alcohol. 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.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

SEE SIDE PANEL FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

EPA Reg. No. 1757-58
EPA Est. No. 1757-NJ-1
1757-NJ-2
1757-TX-1



Drew Industrial Division

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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

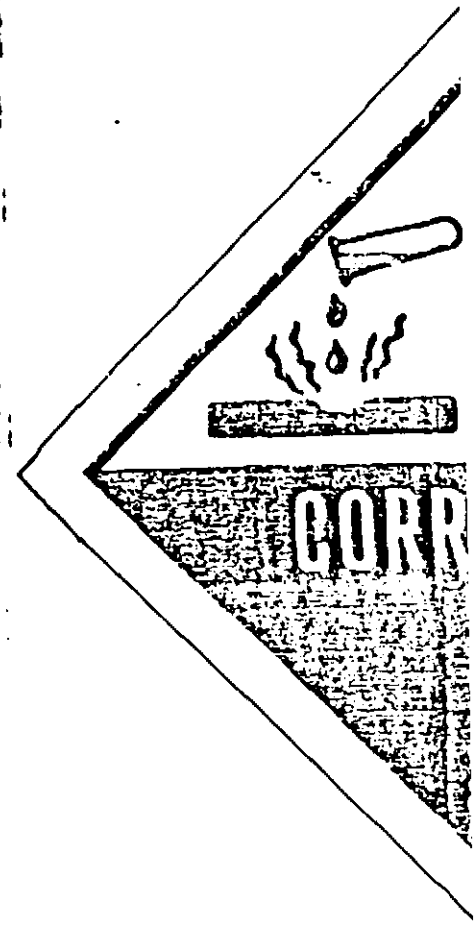
This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, wetlands, or other public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

NET CONTENTS MARKED ON DRUM

IMPORTANT NOTICE: Seller warrants that the product conforms to its chemical description and is accordingly fit for the purposes stated on the label under normal conditions of use. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN OR IMPLIED. THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN OTHER RESPECTS THAN AS EXPRESSLY SET FORTH HEREIN, ARE EXPRESSLY EXCLUDED AND DISCLAIMED.



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GENERAL

BIOSPERSE® 284 is a highly active microbiocide which provides excellent control of algae, bacteria, and fungi in industrial recirculating cooling water systems including cooling towers, air washers, pasteurizers, and evaporative condensers.

BIOSPERSE 284 is an effective microbiocide for controlling slime-forming bacteria, sulfate reducing bacteria, yeast and fungi in oil field injection water and other oil field water systems.

BIOSPERSE 284 is not recommended for use in potable water systems or where contamination of potable water can occur.

DESCRIPTION

Composition:	A blend of methylene bis (thiocyanate), dispersing and solubilizing agents.
Appearance:	Clear amber liquid
Specific Gravity:	1.03 + .02
Weight Per U.S. Gallon:	8.6 pounds
Storage:	Avoid extreme heat and freezing
Packaging:	55 gallon, lined steel drums and 5 gallon plastic pails

DOSAGE

The dosage of BIOSPERSE 284 required for any given application will depend upon the type of system being treated, the nature and extent of microbiological contamination, and the degree of control required.

Where necessary, your Drew Representative will arrange for microbiological and chemical analyses, so that technical advice can be given concerning specific site problems.

APPLICATION

COOLING TOWERS AND EVAPORATIVE CONDENSERS - Dosages will depend upon the condition of the system prior to the initiation of treatment, and the retention time in the system. Apply BIOSPERSE® 284 when the system is in jeopardy of becoming affected or after cleaning systems whose efficiency is already impaired according to the following schedule:

Initial Dose - Apply 0.4 to 0.8 pints of BIOSPERSE 284 (50-100 ppm) per each 1000 gallons of water in the system. This dose may be repeated once, twice or three times weekly or as required to control the growth of slime-forming organisms.

Subsequent Dose - When microbial control is evident, add 0.1 to 0.48 pints of BIOSPERSE 284 (12.5 - 60 ppm) per 1000 gallons of water in the system every three days or as needed to maintain good control.

AIR WASHERS - In treating air washer systems, preclean by introducing a suitable detergent solution into the system and allow air washer to run with fan off for two (2) hours. Flush, check all nozzles and manually clean those that are plugged. Add product as specified under dosages for cooling towers.

PASTEURIZERS - Product should be added into the precool reservoir or any other convenient point in the system which will allow good distribution.

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 284 should be slug fed at dosages of 12.5-100 ppm (0.1 to 0.8 pints per 1000 gallons of water in the system) as needed.

ENHANCED OIL RECOVERY -

Initial Dose - Apply 2.03 to 4.06 gallons of BIOSPERSE 284 (50-100 ppm) per each 1000 barrels of water.

Maintenance Dose - When microbial control is evident, add 0.40 to 3.25 gallons of BIOSPERSE 284 (10-80 ppm) per 1000 barrels of water to maintain good control.

FEEDING

BIOSPERSE 284 may be fed directly from the drum or diluted with water and fed by any suitable feed system. BIOSPERSE 284 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

Specific feeding points, equipment and schedules will be recommended by your Drew Representative for your particular application.

HANDLING

Corrosive. Causes eye and skin damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or skin or 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 label.

ENVIRONMENTAL CAUTION

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

E.P.A. Reg. No. 1757-58-AA

