

Precautionary Statements

Causes eye irritation. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or clothing. Keep container closed when not in use.

Wear goggles on face shield and rubber gloves when handling. Wash thoroughly after handling. See statement of practical treatment on label.

Environmental Hazards

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 EPA.

EPA Reg #1757 - 80

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AMERSTAT® 10

FUEL TREATMENT MICROBIOCIDES FOR INDUSTRIAL USE ONLY

This product helps control the growth of bacteria and fungi in diesel fuel storage tanks.

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 Amerstat® 10 fuel treatment 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. Open dumping is prohibited. If plastic or glass, do not reuse empty container.

DISPOSAL: Pesticide or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Triple rinse (or equivalent) all containers and for metal containers, offer for recycling or reconditioning (for plastic containers dispose in an incinerator), or dispose in landfill approved for pesticide containers or bury in a safe place. Consult federal, state or local disposal authorities for approved alternate procedures.



Drew Chemical Corporation
One Drew Chemical Plaza, Boonton, New Jersey 07005

Manufactured in the United States
ES-730-483-R*

ACTIVE INGREDIENT:

Methylene bis (thiocyanate)..... 1.00%

INERT INGREDIENTS*..... 99.00%

* 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 and 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. 1757-8U
EPA Est. No. 1757-NJ-1
1757-NJ-2
1757-TX-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

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Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling. See statement of practical treatment on front panel.

ENVIRONMENTAL HAZARDS

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PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

NET CONTENTS—AS MARKED ON DRUM

Important Notice:
Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label under normal conditions and use. THE FOREGOING WARRANTIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL 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.

Drew Ameroid Marine

AMERSTAT® 10 fuel microbiocide

DESCRIPTION

Amerstat® 10 fuel microbiocide is a highly active fuel microbiocide which provides effective treatment of petrochemical storage tanks. Amerstat® 10 renders excellent control of hydrocarbon degrading bacteria, algae and fungi at the water hydrocarbon interface.

Amerstat® 10 is a blend of methylene bis (thiocyanate) dispersing and solubility agents contained in an effective solvent system. This combination results in a product which has a wide spectrum of antimicrobial activity against petroleum microbes.

Amerstat® 10 has multiple applications in marine diesel or gas turbine propulsion and auxiliary units, heating or hot water systems or auxiliary boiler systems, shoreside and shipboard storage and holding tanks. Further, Amerstat® 10 will maintain system flow specifications by preventing clogging of small passageways resulting in reduced downtime and reduced maintenance costs.

Amerstat® 10 fuel microbiocide is not recommended for use in potable water systems or where contamination of potable water can occur.

FEATURES

- o Multicomponent formulation

BENEFITS

- o Inhibits corrosion in distillate fuel oil systems
- o Inhibits sludge formation; disperses existing sludge
- o Controls filter plugging bacteria in storage tanks and feedlines

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Drew Chem. Co.

FEATURES

- o Concentrated liquid

BENEFITS

- o Minimizes the acidic effects of sulfate reducing bacteria
- o Minimizes clogging and sticking of injector nozzle
- o Controls a broad spectrum of bacteria, algae and fungal growths
- o No dissolving
- o Cost-effective
- o Easily dosed

APPLICATION & USE

Dosage

The dosage of Amerstat® 10 as a microbiocide treatment will depend on a number of factors such as the type of system being treated, the nature and extent of the microbial contamination and the degree of control required. Generally, dosages will approximate one gallon of Amerstat® 10 microbiocide per 10,000 gallons of diesel fuel (1.0 liters per 10,000 liters of fuel).

Where necessary, your Drew Service Engineer will provide technical assistance so that specific dosage and application methods can be recommended as in the referred dosage guide below. Specifically the dosage will vary according to the quality of fuel but normally will be between 100 to 200 ppm.

For routine control of bacteria a dosage of 100 ppm is recommended; for initial cleaning of already contaminated systems, 200 ppm are recommended for the first 30-90 days.

DOSAGE GUIDE

<u>Amerstat® 10 PPM</u>	<u>Ounces per 1000 gals diesel fuel</u>	<u>Liters per 1000 liters diesel fuel</u>
200	26	0.20
150	20	0.15
100	13	0.10
50	7	0.05

Feeding

Harmful microorganisms such as bacteria and fungi tend to grow in the small quantities of water inevitably found in fuel systems. At the water-hydrocarbon interface bacteria proliferate by feeding off the diesel fuel. The products of this reaction are evidenced as dark, sticky, sometimes stringy masses exactly at this interface. These masses move through the system and result in clogged filters, fouling of heat exchanges and gumming up of fuel pumps and injector nozzles.

Because the bacteria and fungi live in the water phase layer, Amerstat® 10 fuel microbiocide has been formulated to have a specific gravity greater than petroleum oils and to be dispersible in water. Amerstat® 10 has an inherent characteristic which is known as "seeking the water phase" in an oil/water system.

Ideally, Amerstat® 10 fuel microbiocide should be fed to the water bottoms. This can be achieved in several ways such as feeding through a water bottom drain valve or pouring down a sounding pipe prior to refilling the tank. If feeding to the bottom is not practical it can be slug fed through the tank top ports or fed continuously during the tank filling operations.

Specific feeding points and schedules will be recommended by your Drew Service Engineer for your particular application.

TYPICAL PHYSICAL PROPERTIES

Composition:	A blend of methylene bis (thiocyanate) dispersing and solubilizing agents
Appearance:	Clear yellow liquid
Flash Point:	101°F, 38°C (PMCC)
Odor:	Aromatic
Specific Gravity:	1.03 @ 25°C
Weight per U.S. Gallon:	8.58 pounds
PH:	1% aqueous solution: 5.8
Solubility:	Complete
Storage:	Avoid heat and freezing
Packaging:	6 gallon pails