

## DESCRIPTION

AMERSTAT 25DM microbiocide fuel treatment is highly effective in providing total control against biodegradation of low sulfur marine fuels, including all residual and distillate per ISO 8217, VLSFO, ULSFO, bio-derived fuels, and other types of liquid fuel in storage tanks.

Moisture often accumulates in storage tanks from condensation and water ingress from drains and vents, providing an excellent breeding ground for two major groups of microorganisms - bacteria and fungi. Living at the fuel-water interface, these damaging microbes depend on water for growth and the organic molecules of fuel for nutrition.

Uncontrolled microbial contamination will grow quickly and often undetected, leading to unexpected problems including clogged filters and injectors, storage tank corrosion, fuel instability, and a reduction of the fuel's heat of combustion. Additionally, sulfur-containing molecules are metabolized leading to the production of hydrogen sulfide ( $H_2S$ ).

AMERSTAT 25DM treatment will control microbiological growth in storage tanks and fuel lines, and reduce system corrosion and clogging resulting from infestation. AMERSTAT 25DM treatment has multiple applications in marine diesel, gas turbine, and auxiliary boiler fuel storage tanks.

## SAMPLING AND MONITORING

Marine residual and distillate fuel oil tanks should be sampled routinely every three to four months, especially tanks containing fuels that are stored for extended periods of time, such as low-sulfur fuel oil. These samples can be tested for microbial contamination using the onboard test kit, Sulfate Reducers Test Set (PCN 1701019). Ideally, a sample from the fuel-water interface is obtained using a "dead-bottom" tank sampler. Alternatively a sludge or biomass sample can be obtained from choked filter elements. Consult your local

Drew Marine representative for further discussion on fuel samplers, onboard test kits, and fuel analysis services.

## APPLICATION AND USE

Because the bacteria and fungi live in the water phase at the fuel-water interface, AMERSTAT 25DM treatment has been formulated to be oil soluble and to have a specific gravity greater than water. AMERSTAT 25DM treatment will disperse completely in the fuel oil and exhibits a "partition coefficient" characteristic to seek the water phase, providing effective control against microbiological growth.

Ideally, AMERSTAT 25DM treatment should be fed to the water bottoms. This can be achieved by feeding through a water bottom drain valve or pouring down a tank sounding pipe prior to loading. If feeding to the bottom is not practical, it can be slug fed through the tank top ports or fed continuously during the filling operations. Specific feeding points and schedules can be recommended by your Drew Marine representative for a particular application.

The dosage of AMERSTAT 25DM treatment will depend on a number of factors, such as the type of system being treated, the nature and extent of microbial contamination, and the degree of control required. Generally, the dosage will be 1:25,000 (1 liter per 25 tons of fuel). For initial cleaning of contaminated systems previously untreated, 1:12,500 (1 liter per 12.5 tons of fuel) is recommended for the initial treatment; thereafter, for routine control of microbial growth the maintenance dosage is recommended.

As microbes are effectively killed, the active biocidal components of AMERSTAT 25DM treatment are depleted. While all new fuel deliveries should be treated, fuel remaining onboard in storage and service tanks should be retreated after four weeks to maintain control using the routine maintenance dosage rate.

## FEATURES

- Treatment that kills a wide variety of microbiological growth in fuel systems
- Oil soluble with "seeking the water phase" characteristic
- Concentrated liquid
- Suitable for low sulfur marine fuels
- Simple dosage guide for rapid initial treatment and routine preventative maintenance

## BENEFITS

- Does not require multiple products
- Inhibits corrosion in fuel oil systems caused by the acidic effects of sulfate-reducing bacteria
- Minimizes filter plugging caused by biomass waste formation in storage tanks and feed lines
- Provides complete microbial kill in both the oil and water phases
- Easily dosed
- Cost-effective method of maintaining microbial contamination-free fuel oil system



Contact your Drew Marine representative for more information

## TYPICAL PHYSICAL PROPERTIES

Appearance:	Amber liquid
Odor:	Organic
Density @ 25°C:	1.09 g/cm <sup>3</sup>
Flash Point (PMCC):	96.1°C
pH (1% aqueous solution):	6.5
Solubility:	Complete
Storage:	Avoid heating > 60°C or freezing

## PACKAGING

AMERSTAT 25DM microbiocide fuel treatment is available globally (except in Canada\* and EU\*\*) in 25-liter containers (PCN 6981402) and on request in 200-liter drums (PCN 6981428).

U.S. EPA Registration Number 56473-4.

\*Canada: ACTICIDE 14 (PCN 0012203) is the available fuel preservation biocide.

\*\* EU: MERGAL MC14 (PCN 6980024) is the available fuel preservation biocide.

Onboard Test Kit Sulfate Reducers Test Set (PCN 1701019)

## IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.

### AMERSTAT 25DM MICROBIOCIDE FUEL TREATMENT

Metric Dosage	Routine Maintenance (1:25,000) Liters	Initial Treatment (1:12,500) Liters
4 ml	100	50
100 ml	2,500	1,250
250 ml	6,250	3,125
500 ml	12,500	6,250
1 liter	25,000	12,500

U.S. Dosage	Routine Maintenance (1:25,000) Gallons	Initial Treatment (1:12,500) Gallons
1 oz	195	98
8 oz	1,563	781
1 pint	3,125	1,563
1 quart	6,250	3,125
1 gallon (U.S.)	25,000	12,500



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