



**MARINE  
CARE**

# CARETREAT BACTERIA

DISCOVER THE DIFFERENCE

**Microbiological control agent for use in lube oil, fuel oil and dieselcoolingwater systems**

- Broad spectrum
- Fast acting
- Cost effective
- Easy to apply
- Easy test method

## DESCRIPTION

Broad spectrum microbiological control agent including bio-dispersants for growth protection in lube oil, fuel oil and coolingwatersystems.

## ADVANTAGES

- Effective against bacteria and algae in oil and contaminated water
- Special surface active component ensures complete coverage over large areas
- Easy to use liquid

## APPLICATION

Caretreat Bacteria is used in oil storage facilities and cooling water systems which have problems due to bacteria colonization and/or algae.

Caretreat Bacteria is ideally suited for the treatment of Marine Diesel Engine Cooling Water Systems which have bacteria and/or algae infection. Diesel Cooling Systems have been prone to this, due to the common occurrence of lubricating and/or fuel oil and fatty exhaust gasses, mixing with cooling water. This gives an oil/water phase ideal for bacteria to colonize rapidly. Water containing bacteria leaks into the lube oil system due to faulty glands, joints and seals or during routine maintenance. Small amounts of infested water/oil sludges in the storage and circulatory parts of the lube oil system can quickly lead to major failure of bearing surfaces due to acidic conditions and degradation of the oils lubricating properties.

## DIRECTIONS FOR USE

*Treatment of lube oil systems*

After serious contamination, all areas possible should be cleaned manually to remove sludge and slime. On large engines, cleaning with undiluted Careclean Degreaser HD Split of the casing frame,



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# MARINE CARE

## DIRECTIONS FOR USE (CONTINUED)

followed by opening and thoroughly cleaning the sumps is strongly recommended. This should be followed by flushing the entire lubricating oil system with a flushing oil containing 500 - 700 ml of Caretreat Bacteria per m<sup>3</sup>.

### *Treatment of fuel storage tanks*

The action of bacteria in fuel during storage is widely underestimated. Problems of stratification of blended fuels is often allocated to incompatibility in stead of to bacteria. If bacteria are suspected, water drawn from the fuel storage tank drains should be tested with the Marine Care "Dip Slide Test"

If bacteria are present (bacteria count above 10<sup>5</sup> CFU/ml) treat the fuel with 700 - 1000 ml of Caretreat Bacteria to each m<sup>3</sup> of fuel.

### *Treatment of the coolingwater system(s)*

The system should be drained and refilled with fresh water treated with Caretreat Bacteria at 500-700 ml per m<sup>3</sup> of water. Let the Caretreat Bacteria react for 48 hours whilst circulating with all coolingwater pumps. The engine should not be running. During this operation, careful attention should be taken to blanked pipes and bypass loops, etc., to ensure that these areas also receive adequate treatment. After 48 hours, drain the system as quickly as possible through all outlets. Refill the system with distilled water and add Caretreat 2 Diesel to give the correct corrosion inhibition levels and add 500 ml Caretreat Bacteria per m<sup>3</sup>. The product is not to be used in potable water systems.

## DOSAGE

See Direction for Use

## PROPERTIES

Article number	14508
pH (1 % solution)	3 - 5
Density	1,00 g/cm <sup>3</sup>
Flashpoint	Not applicable
Physical state	Liquid

For detailed information on safety and health, please refer to the Material Safety Data Sheet MSDS and/or product label.

**Note:** The product may only be used on vessels sailing under foreign flag.

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