



# CAREFLOC

**General purpose dispersant for effective removal of mud and silt from ballast tanks, pipe line systems, open and closed cooling water circuits**

- Eco-friendly
- Biodegradable
- Multipurpose
- Dispersant
- According FDA

## DESCRIPTION

CareFloc is a multifunctional dispersant for mud and silt in all type of systems. Mud and Silt sediments are formed at places with insufficient flow velocity (below 1 m/s). Low flow velocity can occur in tanks, pipelines and coolingwater circuits. CareFloc penetrates the mud and silt deposits and disperses the mud and silt particles into the treated water.

## ADVANTAGE

- Non hazardous product
- Prevents mud and silt from settling
- Removes already settled mud and silt sediments
- Low dosage rates

## APPLICATIONS / DIRECTIONS FOR USE

### *Cleaning dirty ballast tanks*

CareFloc must be dosed to the tank at a rate of 1 ltr. product to 10m<sup>3</sup> water. If possible the water volume in the tank should be minimised to reduce product requirement. Maximum agitation should be provided by back flushing when pumped out.

### *Ballast tank treatment*

To maintain good conditions in a clean tank CareFloc must be added at 1 ltr. product to 20 m<sup>3</sup> water.

Both dosage recommendations should be considered as the minimum for full effectiveness.

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CareFloc should be added via the tank covers, to avoid blending problems when dosed via vents or sounding tubes. If the latter is unavoidable, ensure that plenty of water is added directly after, to prompt blending.

#### *Open cooling water systems*

Fouled systems should be cleaned by injecting CareFloc at a rate of 1 ltr. product to 10 m<sup>3</sup> circulating water flow over a 1 hour period every 24 hours. This rate can be reduced by 50 % once a system is reasonably clean and requires maintenance.

#### *Diesel engine cooling water systems*

Desludging must be carried out by injecting a minimum dose of 1 ltr. CareFloc to 10 m<sup>3</sup> water contents. Small systems of less than 2.5 m<sup>3</sup> should use 0.3 ltr. of CareFloc regardless of the exact contents. CareFloc should be injected into the system at a high dosing point; if the header tank is used for this purpose, ensure that the make-up valve is closed and water level lowered below the cylinder levels before CareFloc is added to the tank. Add the calculated volume of CareFloc to the empty tank and then open the make-up valve to refill the system. This ensures that the product enters the cooling circuit.

Circulate for 30 – 60 minutes then completely drain the system as quickly as possible using all drains and removing covers if practical. Supply of untreated water whilst draining will assist in removing treated sludge. Repeat the operation if the sludge amount is excessive.

#### *Heat exchangers – sea water side*

##### *Static method*

Isolate the heat exchanger and add 1 ltr. CareFloc to 10 m<sup>3</sup> water contents. If possible, agitate with a compressed air line or temporary circulation. After 30 - 60 minutes, flush thoroughly with water to remove all dispersed deposits.

Note: If “on load” cleaning of specific coolers is required, inject upstream of the unit 1 ltr. CareFloc per 10 m<sup>3</sup>/h flow.

#### *General hints*

Long term contact of CareFloc with sludge, reduces its effectiveness. This should be considered in ballast tanks which are not continuously being discharged. Sludge should be removed within seven days maximum.

Above 60 °C the effect of CareFloc is reduced and, if necessary, dosage rates must be increased. CareFloc will function over the full pH range, however, it is more effective in slight alkaline conditions.

Do not use less than 1 ltr. of CareFloc in 20 m<sup>3</sup> water.

#### **DOSAGE**

See Applications / Direction for use.

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## PROPERTIES

Article number	14705
pH	6,5 - 8,5
Density	1,3 g/cm <sup>3</sup>
Flashpoint	Not applicable
Physical state	Liquid

## APPROVALS

- CareFloc is according FDA for indirect food contact

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

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