

CARECLEAN VOYAGE

Strong emulsifying cleaner for removing heavy crude oil, soot, asphalt and carbon black stains

- Applicable at low temperatures
- Non Caustic
- Short washing times

DESCRIPTION

Careclean Voyage is a highly concentrated blend of aromatic solvents emulsifiers and non-ionic and anionic surfactants. Careclean Voyage is used for removing heavy crude oil, soot, asphalt and carbon black stains, by direct injection, "Voyage method", spraying and/or recirculation.

ADVANTAGE

- Highly concentrated
- Non caustic
- Up to 50 % reduced washing times
- Safe on most common metals

APPLICATIONS

Tanks

Careclean Voyage can be used for the removal of most mineral oils and fats in cargo and storage tanks.

Double Bottom Tanks

Careclean Voyage can be used for cleaning and gas freeing of double bottom tanks, using the rolling motion of the ship which normally provides sufficient agitation.

DIRECTIONS FOR USE

Cleaning of cargo and storage tanks

Prewash

Before cleaning with Careclean Voyage, it is recommended to prewash tanks with hot water of approximately 50 °C, except for crude oil, drying and semi-drying oils where a prewash with cold water should be applied.

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DIRECTIONS FOR USE (CONTINUED)

Direct Injection Method For Cargo Tanks

Undiluted Careclean Voyage should be injected at a predetermined rate into the pressure side of the automatic tank cleaning system line on deck, by means of an air operated drum pump. Usually an injection rate of 0.1 - 0.2 % of Careclean Voyage is sufficient. Cleaning time 2-6 hours. Subsequently rinse with water.

Hand Spraying Method

Spray undiluted Careclean Voyage directly on to bulkheads, frames, stringers etc. using an air operated drum pump complete with a discharge hose and a hand spray gun. After a pre-determined reaction time, tanks should be rinsed with water using the automatic tank washing machines. For spot cleaning only use a hose for rinsing, for example a fire hose with nozzle. Hand spraying method is the most economical way in terms of chemical consumption but requires tanks being gas-free, enabling men to enter tanks. However, hand spraying method has a practical time limitation depending on tank sizes, i.e. total tank surface to be sprayed.

Recirculation method

A chemical solution is prepared in one of the after tanks near the pump room and is circulated by the automatic tank washing system's pump and heater to the tank to be cleaned. The solution is returned to the chemical solution tank via the stripping line. Usually it is not possible to recirculate solution over the tank washing system's heater (to maintain solution temperature) without making a temporary connection between the chemical solution tank and the tank washing pump.

The capacities of the solution tank, pipelines and pumps etc. should be calculated carefully, to ensure sufficient volumetric quantity for a continuous recirculation. Depending on the size and the condition of the tanks to be cleaned and quantity of chemical solution, usually up to three tanks can be cleaned with one solution. To continue cleaning of other tanks a fresh solution has to be prepared. Careclean Voyage is circulated in a 2 - 6 % solution in seawater.

After chemical cleaning the tanks should be rinsed thoroughly with seawater or fresh water, depending on availability and requirements.

Voyage Cleaning Method: (Double Bottom Tanks)

Time, temperature and agitation of chemical solution are important factors for the successful cleaning of Double Bottom.

Tank

1. Heat the tank higher than normal temperature, pump out as much fuel as possible and trim the vessel to ensure complete stripping.
2. Close all valves on the engine room manifold.
3. Introduce the first dose of Careclean Voyage, through the sounding pipe, in accordance with the dosage table stated below and fill the tank to 25 % of its capacity with sea water. For filling the tanks it is to be advised, not to use the ballast lines, as they may contain fuel-oil making the cleaning more difficult.

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MARINE CARE BV
Mozartlaan 3
3144 NA Maassluis
The Netherlands
T. +31 (0)10 2950342
F. +31 (0)10 2950345
E. supply@marinecare.nl
W. www.marinecare.nl



4. Heat the cleaning solution to a minimum of 60 °C and maintain this temperature for 48 hours. If heating coils are not available, live steam may be used for heating the solution and maintain the temperature.
5. Empty the tanks completely, fill to 50 % capacity and empty again. Where single stage cleaning is used the previous steps are ignored.
6. Add a second dose of Careclean Voyage and fill the tank with sea water to 50 % of its capacity, continue heating and maintain at this level for 48 hours.
7. Add further sea water to fill the tank to 75 % capacity, continue heating and maintain for another 48 hours.
8. Empty the tanks and pressure rinse with clean water through the sounding pipes for 1 - 2 hours under continuous stripping. The pressure should be kept as high as safety permits.
9. When rinsing is completed stop the discharge (stripping) pump and fill the tank until clear water runs from sounding pipes on deck.
10. Stop the water supply and empty (strip) the tank. Trim the vessel to ensure complete stripping.

Note:

If the tanks are not severely contaminated and/or the fuel-oil viscosity is lower than 180 cSt at 50 °C the cleaning process should be in one stage using step 5 - 10 only.

DOSAGE

Direct Injection 0,1 - 0,2 %
 Recirculation 2 - 6 %
 Hand spraying undiluted
 Voyage Cleaning Method see dosing table

Tank capacity in tons	Dosage of Careclean Voyage in liters per tank		
	Minimum	Normal	Maximum
2-5	2	4	6
5	4	8	12
10	8	16	24
15	12	24	36
20	16	32	48
25	20	40	60
30	24	48	72
40	32	64	96
50	40	80	120
75	60	120	180
100	80	160	240
200	160	320	480
250	200	400	600
300	240	480	720
400	320	640	960
500	400	800	1200
600	480	960	1440
700	560	1120	1680
800	640	1280	1920
900	720	1440	2160
1000	800	1600	2400

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PROPERTIES

Article number	
pH	8
Density	0,88 g/cm ³
Flashpoint	Not applicable
Physical state	Liquid

APPROVALS

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

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