



**MARINE  
CARE**

# CARECLEAN ENERGYWASH

**Universal water based tankcleaner to remove mineral, vegetable oils and greases**

## DESCRIPTION

Careclean EnergyWash is a highly concentrated water based cleaning product totally based on natural ingredients. The formulation has been chosen in such a way, that a maximum biodegradability has been reached. Due to the extremely good cleaning capability, Careclean EnergyWash replaces hydro-carbon based cleaners in nearly all cases.

## ADVANTAGE

The surfactants have been carefully selected to guarantee a minimum emulsification of mineral components. This leads to a high suitability for use in combination with oil/water separators. The emulsion will separate within 15 minutes. Careclean EnergyWash is widely used in tank cleaning for the removal of mineral oils and greases, dopes, additives, lubricants, paraffin's (e.g. slackwax), vegetable, fish and animal oils and fats, fatty acid and greases, crude palm oil, styrene & palm fatty acids.

## APPLICATION

- Tank cleaning
- General cleaning and degreasing in engine room and on deck

## DIRECTIONS FOR USE

### General Cleaning

Careclean EnergyWash can be diluted to a 0.5-2 % solution in water for light contaminations. It must be allowed to soak for 1 - 15 minutes before rinsing with a waterjet. The effectiveness of the product is increased by using water at a temperature of 20 - 60 °C for as well diluting the product as for rinsing.

- Environmental - friendly
- Biodegradable
- Wide range of applications
- Suitable on all metals, coatings
- Approved by:
  - > IMO
  - > Marinfloc
  - > Coating manufacturers



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### Tank Cleaning

Before cleaning with Careclean EnergyWash it is recommended to prewash with hot water. For drying or semi-drying oils a prewash with cold water should be carried out immediately after discharge of cargo to retard oxidation and hardening of oil residues. After 1 cycle, slowly start to increase the water temperature to increase effectiveness of the prewash.

### Recirculation Method

Recirculation is highly effective and widely used. In this method a chemical solution is pumped via a closed loop through a mechanical tank washing machine. The chemical solution is normally prepared in the tank to be cleaned or in the slop tank. Heat is achieved by the use of a heat exchanger, steam coils or live steam injection. The advantages of this method are recovery and re-use of the heat and chemicals to clean additional tanks.

Depending on the degree of contamination Careclean EnergyWash is circulated as a 0.5 - 3 % solution for a period of 2 - 4 hours at 50 - 80 °C. After circulation rinse thoroughly with (fresh) water. One solution is commonly used to wash 2 - 3 tanks.

### Direct Injection Method

Inject 0.5 - 3 % of Careclean EnergyWash directly into the tank washing system. The recommended cleaning temperature is 20 - 60 °C. When completed rinse thoroughly with water.

### Spray Method

Spray the tank surfaces with a 0.5 - 5 % solution of Careclean EnergyWash and let the product act for 1 - 15 min. before spraying with a high pressure water jet. The efficiency of this product can be increased by using water of 50 - 80 °C. For very heavy contaminations a 25 % solution should be used. Leave the product to act for 10 to 60 minutes before spraying with a high pressure water jet.

### DOSAGE

Spraying	0.5 - 25 % in freshwater
General Cleaning	0.5 - 10 % in freshwater
Tank Cleaning	0.5 - 3 % in freshwater

### PROPERTIES

Article number	14613 / 16613
pH	10
Density	0,998 g/cm <sup>3</sup>
Flashpoint	Not applicable
Physical state	Liquid

### APPROVALS

- IMO approved in accordance with MEPC 590
- Marinfloc Approved OWS Compatible
- Major coating manufacturers. Deviations in temperature, exposure time and concentration to the above stated can vary per coating type, consult the coating manufacturers user guidelines.

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

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This information is based on data that we believe to be accurate and reliable and is intended to be used by persons having the knowledge and skill to apply this product properly. We assume no responsibility for results or damages incurred from their use by the Buyer. No liability (including liability for negligence) will attach to Marine Care or its servants or agents arising out of or in connection with or in relation to this product information.

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