



# MARINE CARE

## CARECLEAN ALKALINE EXTRA

### Strong foaming alkaline cleaner

- Biodegradable
- Extreme powerful
- Non flammable
- Approved by:
  - > IMO
  - > Marinfloc
  - > Coating manufacturers
  - > NHI

#### DESCRIPTION

Careclean Alkaline Extra is a very powerful caustic based alkaline cleaning and degreasing agent. Careclean Alkaline Extra is based on strong anionic surfactants and alkaline salts.

#### ADVANTAGE

Careclean Alkaline Extra provides economic removal by saponification and emulsification of:

- vegetable, fish, animal oils and fats
- FAME, palm oils, palm fatty acids
- other drying and semi drying oils, mineral oils and Inert Gas Soot

#### APPLICATIONS

Careclean Alkaline Extra is used for general cleaning, tank cleaning, hold cleaning and boiler cleaning.

##### *Cargo Hold Cleaning*

Careclean Alkaline Extra is used to clean cargo holds after carrying cargoes such as pet coke-, coal-, and mineral oil residues. After sweeping and demucking apply Careclean Alkaline Extra in a 10 - 50 % solution depending on the contamination. Let the product soak for 30 minutes making sure not to let the solution dry on the surface. Then spray off with water.

Careclean Alkaline Extra can be applied by the *Caretech Hold Cleaning Kit*.

##### *Tank Cleaning*

Before cleaning with Careclean Alkaline Extra 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.



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### *Recirculation Method*

Recirculation is highly effective. 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 the recovery of the heat and chemicals to clean additional tanks. Careclean Alkaline Extra is circulated as a 1 - 3 % solution > 70 °C for a period of 2 - 6 hours. After circulation rinse thoroughly with water. Depending on the degree of contamination one solution can be used to wash 1 - 3 tanks. For removal of Inert Gas Soot, a 3 - 10 % solution should be used.

### *Direct Injection Method*

Inject 1 - 3 % of Careclean Alkaline Extra directly into the tank washing system. The recommended cleaning temperature is 80° C. When completed rinse thoroughly with water.

### *Tank Rinsing*

In many cases an after treatment with Careclean Rust solution is recommended for the removal of white lime deposits originating from sea water, residues out of the cargo or the combination of caustic with high temperatures. Inject 0,5 % Careclean Rust directly into the tank washing system. Wash for approx. 20 - 30 minutes, at least 1 cycle. The recommended temperature is > 70 °C. Finally wash the tanks thoroughly with cold fresh water.

### *Boiler Cleaning*

Prior to acid cleaning of steam boilers which are contaminated with oil and grease or when silicates/calcium sulfates are present it is advised to first perform a boil out operation with Careclean Alkaline Extra. Fill the boiler with a 5 - 10 % solution of Careclean Alkaline Extra in water. Depending on the degree of contamination allow this solution to circulate for 12 to 24 hours at a temperature of 80 °C. After this boil out operation, completely drain the hot cleaning liquid and rinse the boiler intensively with cold water.

## **DIRECTIONS FOR USE (SEE APPLICATIONS)**

### **DOSAGE**

Direct Injection	1 - 3 %
Recirculation:	
General	1 - 3 %
Inert Gas Soot	3 - 10 %
Boiler Cleaning	5 - 10 %
Cargo Hold Cleaning	10 - 50 %

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## PROPERTIES

pH	13
Density	1,35 g/cm <sup>3</sup>
Flashpoint	None
Physical state	Liquid

## APPROVALS

- IMO approved in accordance with MEPC 590 Guidelines
- Marinfloc Approved OWS Compatible
- Major coating manufacturers
- Norwegian Health Institute (NHI)

All our supplied hold cleaning chemicals are IMO approved & comply with the set Marpol MEPC 63/23/add. 1, Annex 24 resolution MEPC.219(63) – Annex V – 2012 guidelines adopted March 2012.

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



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