



## MarClean ECO

- Heavy Duty Hydrocarbon Free Tank Cleaner

### Description

MarClean ECO is developed as a concentrated heavy duty tank cleaner which is manufactured from natural raw materials containing no chlorinated or aromatic hydrocarbons, making it an excellent hydrocarbon free cleaner after any cargo. As a multifunctional tank cleaner it replaces most conventional alkaline, solvent & water based tank cleaners.

- Eco friendly
- Non-toxic and environmentally safe
- Biodegradable
- Solvent Free
- Concentrated multipurpose cleaner

### Directions for Use

**Tank Cleaning:** Before cleaning with MarClean ECO, it is recommended to prewash the tanks with hot water. For drying or semidrying oils, a prewash with cold water should be carried out immediately after discharge of cargo to prevent hardening of oil residues. After the 1<sup>st</sup> cycle, slowly start to increase the water temperature to increase effectiveness of the prewash.

**Re-circulation method:** Re-circulation is highly effective and often used as a cleaning technique. In this method a chemical solution is pumped under pressure, using a closed re-circulation circuit, to 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 a live steam injection. The advantages by using this method, is that the cleaning time is faster, and the result is often better. Depending on the degree and nature of contamination MarClean ECO is circulated as a 0,2-0,5% solution for a minimum period of 2-4 hours at a temperature of 10-70 °C. After circulation rinse thoroughly with (fresh) water. In case the next cargo is of high purity standard, make sure to rinse with D.I. water, to meet the necessary cleanliness standards.

**Direct Injection:** Inject 0,1-0,2 % of MarClean ECO into the washing system. Maintain cleaning temperatures between 10-70 °C. Cleaning time is 2-6 hours, followed by thorough rinsing with fresh hot water.

**Spray Method:** Spray the tank surfaces with a solution of MarClean ECO and let the product act for at least 30 min. Then rinse all tank surfaces with hot water for 1 or 2 cycles (approx. 30-45 min.) or as long as needed to remove the cleaning detergent. MarClean ECO can be sprayed in a 0,1-0,2 % solution to remove the last traces of hydrocarbons or in a solution up to 10% for carbonized and/or hardened residues.

# TECO

High Quality Cleaning  
Chemicals since 1994

Quality Without  
Compromise

Approved By



## MARPOL

Coating  
Manufacturers

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+47 67 200 300

Read the Material Safety  
Data Sheet and Safety  
Handling Sheet before using  
this product.

Use protective equipment  
and comply with disposal  
considerations.

Updated MSDS and Safety  
Handling Sheets are  
available on  
[WWW.TECO-CHEMICALS.COM](http://WWW.TECO-CHEMICALS.COM)

## IMO Approved & Tank Coating Manufacturer Approved

MarClean ECO is approved by MARPOL / IMO in accordance with MEPC.1/Circ. 590. MarClean ECO can safely be disposed into seawater without being harmful to the marine environment. MarClean ECO is in compliance with MARPOL Annex V, and is also approved by major coating manufacturers.

### Caution!

Please do necessary arrangements for protection gear and equipment prior using this product.

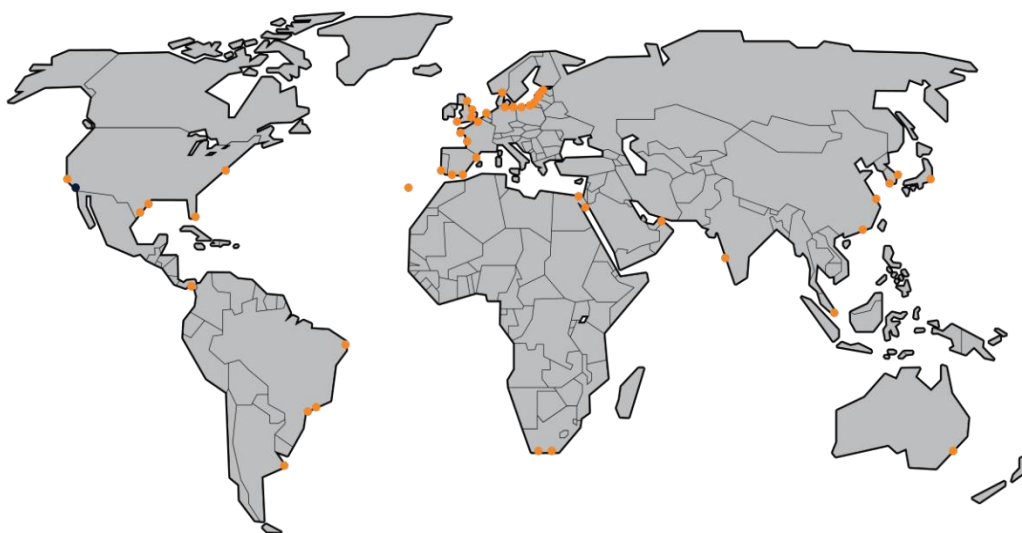
### Properties

Physical state	: Liquid
Odour	: Fruity
Colour	: Clear Yellow – Blue Liquid
Solubility in water	: Soluble in Water
Density	: 1.02 – 1.10 g/cm <sup>3</sup>
pH	: 10.5 – 11.5

### Packing

MarClean ECO is accessible in 25ltr pails and 200ltr drums.

### Stock Availability



### TECO Chemicals – Available in



CODE: 3713



CODE: TN-262299



CODE: VIF-B89



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