



Quality Chemicals
with
excellent performance

APEX CHEMICALS

Description

APEX ECO SOLVE is suitable for removing most Annex II Cargoes.

Apex Eco Solve can be used to clean the cargo tank of vegetable, fish, animal and mineral oils, petroleum based chemicals, and for the cleaning and degreasing of double bottoms, deep tanks, bilges etc.

DIRECTIONS FOR USE

TANK CLEANING

Before cleaning with Apex Eco Solve it is recommended to prewash the tanks with hot water.

For drying or semi-drying oils a prewash with cold water should be carried out immediately after discharge of cargo to prevent hardening of oil residues. After 1 cycle slowly start to increase 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 under pressure, using a closed recirculation 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 live steam injection. The advantages of this method are the recovery of the heat and chemicals to clean additional tanks.

Depending on the degree and nature of contamination Apex Eco Solve is circulated as a 0.5 – 0.8 % solution for a minimum period of 2 - 4 hours at a temperature of 10 - 60 °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 standard.

Direct Injection

Inject 0.2 – 0.5 % of Apex Eco Solve into the washing system. Maintain cleaning temperatures between 10 - 60 °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 Apex Eco Solve 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.

APEX ECO SOLVE

ECO FRIENDLY - HEAVY DUTY TANK CLEANER

- High flash point
- High cleaning concentrate
- Biodegradable and very low toxicity to marine life
- Effective and economical
- More effective than solvent cleaners
- Cleaning of most MARPOL Annex II cargo

This information is not to be taken as a warranty or representation for which we assume legal responsibility, nor as a permission, inducement, or recommendation to practice any patented invention without a license. The information is offered solely for your consideration, investigation and verification.



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Apex Eco Solve 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.

DIRECTIONS FOR USE (SEE APPLICATIONS)

DOSAGE

Recirculation 0.5 – 0.8 %

Direct injection 0.2 – 0.5 %

Spraying 0.1 – 0.2 % for HC traces
0.5 - 10 % for cargo residues

Tank Material

Safe to use on stainless steel and resistant coatings.
This product should not be used on zinc coating

Warning

Prior to use, one should be sure that equipment like hoses, pumps and gaskets are resistant to APEX ECO SOLVE. Suitable material is PE, PP, PTFE and for short term material use buyrubber.
Also, paint and lacquers can be damaged due to the high solvency power.



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