

DESCRIPTION

TC#4 is a superior solvent emulsifying tank cleaner for cleaning and gas-freeing cargo tanks that have been contaminated with petroleum residues and refined mineral oils and solvents. TC#4 can be used diluted or neat for cleaning cargo tanks, deep tanks, and bilges. It is safe for most tank coatings and can be applied via the standard tank cleaning methods including rock-and-roll, machine cleaning or hand spraying.

APPLICATION & USE

The following tank cleaning instructions are not intended to interfere with the judgment of the Master, Chief Mate, or Chief Engineer in the operation and/or navigation of the vessel. They are meant only as a guide since circumstances, such as the degree and nature of contamination, reason for cleaning, heat and time available, crew experience, tank configuration and sea conditions will vary for each tank cleaning, and all must be taken into consideration. The recommendations provided are designed to achieve the optimum results and are based on over 80 years of tank cleaning experience.

I. Cleaning Procedure - Recirculation Method

For this method, a solution of seawater and TC#4 is mixed in a slop or cargo tank.

1. While filling the recirculation tank with water, add the amount of TC#4 required for correct solution strength. The quantity of TC#4 will vary depending on tank conditions. A solution of 0.1-0.2% is recommended cleaning solution. Recirculate for 1-2 hours at a maximum temperature of 70°C.
2. The procedure is the same for the direct injection method except for the fact that the tanks being washed are stripped back to the recirculation tank. Care should be taken to observe when TC#4 cleaning solution is saturated.

II. Cleaning Procedure - Direct Chemical Injection

1. Prepare and inspect all equipment.
2. To calculate the quantity of chemical (Qd) necessary, the following information is required:
 P = Quantity of chemical to be used per ton of water = 1.0 liter of TC#4 per ton of water
 M = Number of machines to be used per tank
 C = Output of each machine (tons/hour)
 T = Total time to clean the tank (hours) $Qd = P \times M \times C \times T$

III. Cleaning Procedure - Spot Cleaning Fuel Tanks

1. To calculate the amount of TC#4 of a known area: Qs (Quantity Spot Cleaning) = area in square meters x 0.20
2. To calculate the amount of TC#4 to do an entire tank by hand or lance spraying: $Q1$ (Quantity Hand Cleaning) = Volume in cubic meters (tons) x 0.15

TYPICAL PROPERTIES

Appearance: Clear, yellow to amber liquid
 Specific Gravity @ 25°C: 0.86
 Flash Point: $\geq 62^\circ\text{C}$

NOTE: Always wear the appropriate personal protective equipment when using this product.

PACKAGING


TC#4 is available in 25-liter (PCN 0063404) and 200-liter containers (PCN 0063420).

FEATURES

- Solvent emulsifying cleaner
- Concentrated
- Contains no chlorinated hydrocarbons

BENEFITS

- Reduces cleaning time
- Minimizes downtime
- Reduces manual cleaning
- Effective in machine washing, manual spraying, and rock-and-roll cleaning procedures
- Easy to apply
- Cost effective
- Does not hinder re-refining of oil slops
- Reduced impact on crew and environment

 **Contact your Drew Marine representative for more information**

IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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