



RXSOL

CHEMO PHARMA INTERNATIONAL

Technical Data Sheet (TDS)

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Tankleen VO RX vegoil and Hard Stains Remover

Tankleen VO Rx is a high-performance cleaning agent proven to significantly reduce cleaning time across a wide range of vegetable oil cargoes. It is a premium chemical formulation that is also effective for the cleaning and passivation of stainless steel equipment.

In vegetable oil tank cleaning applications, Tankleen VO Rx can deliver up to a 50% reduction in cleaning time compared to conventional cleaning methods. Owing to its superior cleaning efficiency, it is suitable for various vegetable oil cargoes, including:

- Crude Palm Oil (CPO)
- Palm Stearin
- Crude Palm Kernel Oil (CPKO)
- Palm Fatty Acid Distillate (PFAD)

Vegetable oils and fatty acids often leave white stains when cleaned using commonly applied cleaning solutions, particularly in the case of palm oil-derived cargoes and other high-melting-point vegetable oils, which present significant cleaning challenges. As a result, a two-stage cleaning process is frequently required or recommended, involving an initial alkaline wash followed by an acid cleaning to eliminate the white residues. Alkaline cleaning is ideally carried out with fresh water, as the combination of high alkalinity and seawater can exacerbate stain formation. Hardness salts, when combined with elevated alkalinity and fatty acids, tend to precipitate and form white deposits. Tankleen VO Rx effectively prevents the formation of such precipitates and removes vegetable oil residues in a single-step process, even when seawater is used.

Tank Cleaning Instructions

When PFAD is present, it is strongly recommended to commence cleaning with a 1-2% solution of Tankleen VO Rx. Heat the solution to a minimum temperature of 60 °C and circulate it for at least two complete cleaning cycles. Following the cleaning operation, tanks and associated systems should be thoroughly rinsed. Tankleen VO Rx is suitable for use on epoxy-coated surfaces and stainless steel; however, it must not be used on zinc-coated tanks.

Key Considerations for Cleaning with Tankleen VO Rx

- If a prewash is carried out, it should be conducted at a temperature at least 15 °C above the melting point of the cargo.
- The prewash, recirculation wash, and hot wash may be performed using seawater.
- The final rinse must be carried out with fresh water to eliminate salt residues.

As a general guideline, for every 500 m³ of tank volume, a minimum of 1 m³ of cleaning solution containing 2-3% Tankleen VO Rx should be used.

Hardness Stain Removal

For the removal of hardness-related stains, clean using a 2% Tankleen VO Rx solution at a temperature of 60-70 °C through the tank washing machine.

Dosage

Tank cleaning- PFAD & vegetable oil: 2 - 4% solution or; In case of recirculation at least 30L per 500m³ tank volume

Hardness stains: 2 % solution

Properties

Parameters	Typical Value
Specific Gravity @ 15°C	1.25
Approx. Weight per Litre	1.2 kg/l
Viscosity @ 40°C	6 cps
Form	Liquid
Flash Point	None
Water Solubility	Complete
pH	2

Advantages

- Rapid and effective removal of PFAD and other vegetable oil residues
- Reduction in cleaning time by up to 50%
- Prewash may be eliminated when cleaning via the slop tank, subject to system configuration
- Compatible with both seawater and fresh water
- Effectively removes hardness and rust-related stains
- Safe for use on epoxy-coated surfaces and stainless steel
- Hydrocarbon-free cleaning solution

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