

CLEANBREAK

Oil and Water Separating Tank Cleaner

Technical Information

Physical Data

Appearance:	Clear amber liquid.
Specific Gravity:	0.80 at 20°C.
Flash Point:	More than 70°C.
Corrosive Action:	Metal: None
	Paint: None
	Rubber: Slight swelling

Description

CLEANBREAK is a heavy-duty tank cleaner containing wetting agents, detergents, and built-in de-emulsifiers. It is designed for:

- ▶ Heavy-duty tank cleaning.
- ▶ Breaking emulsions into separate oil and water phases after cleaning.
- ▶ Allowing the discharge of essentially oil-free water phases.
- ▶ Enabling the reclamation of oil residues.

Applications

- ▶ Cleaning and gas freeing of mineral oil tanks.
- ▶ Upgrading tanks from black to white or grain.
- ▶ Separating cleaning slops into phases after cleaning, with a phase containing less than 5 PPM of oil.

Advantages

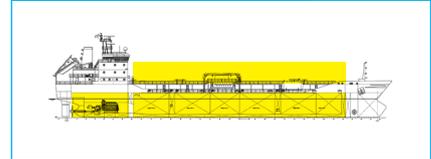
- ▶ Highly effective solvent with rapid penetration.
- ▶ Slops emulsions break down on settling.
- ▶ Forms two distinct phases: oil and water.
- ▶ Oil phase can be reclaimed as usable oil.
- ▶ Product remains in the oil phase.
- ▶ No impairment of combustion or refinery processes.
- ▶ Water phase is completely free of chemicals and retains a neutral pH.
- ▶ Water phase contains less than 5 PPM of oil.
- ▶ Reduces disposal costs and problems.
- ▶ Highly concentrated product - Economical to use.
- ▶ Low toxicity when used as directed.
- ▶ Non-corrosive.

Directions for Use – Product Dose

Tankwashing Machines

CLEANBREAK is injected prior to the first hydrant in the hot wash water line at a rate of one liter per ton of hot salt water. Use this for the last hour of fixed machine cycles, the last bottom drop cycle with portable machines, and throughout spotting cycles with portable machines. Maintain a hot wash water temperature of at least 50°C, preferably in the range of 65°C to 80°C. Ensure the tank bottom is well stripped during cleaning to avoid a build-up of wash water.

USAGE AREAS



Tank Cleaning and Maintenance

PACKAGING



APPROVALS



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Direct Spray Application

Apply neat CLEANBREAK evenly to the area to be cleaned using a nonatomizing spray. Allow a residence time of at least 30 minutes, up to 2 hours where possible. Wash down all tank surfaces with hot water wash at a temperature of 65°C to 80°C and a pressure of at least 5.6 kg/cm² (80 psi).

Disposal of Slops

Allow slops to settle, decant the water, and pump overboard if permitted by authorities. The oil can be discharged at the next loading port for reprocessing or kept on board for use as a load-on-top situation.

Cleaning of Cargo and Storage Tanks

Pre-wash

Before cleaning with CLEANBREAK, prewash tanks with hot water of approximately 50°C, except for crude oil, drying, and semi-drying oils, where a prewash with cold water should be applied.

Direct Injection Method for Cargo Tanks

Inject undiluted CLEANBREAK at a predetermined rate into the pressure side of the automatic tank cleaning system line on deck using an air-operated drum (barrel) pump. Usually, an injection rate of 0.1-0.2 liters of CLEANBREAK per 100 liters of tank wash water is sufficient. Cleaning time is 2-6 hours, followed by rinsing with water.

Tank Cleaning Procedure from DPP to CPP/Gas Free

Follow a specified procedure, including Butterworth for certain durations with specific sea water temperatures and creating a mixture of CLEANBREAK for recirculation inside the cargo tanks.

Hand Spraying Method

Spray undiluted CLEANBREAK on bulkheads, frames, stringers, longitudinals, etc., using an air-operated drum pump connected with a delivery hose and a hand spray gun. After a predetermined reaction time, tanks should be rinsed with water using automatic tank washing machines. For spot cleaning, use a hand-held hose with a nozzle.

At Sea Cleaning Method (for Double Bottom Tanks)

Time, temperature, and agitation of the chemical solution are essential factors for the successful cleaning of Double Bottom Tanks. Follow these steps:

1. Heat the tank to a higher than normal temperature. Pump out as much fuel as possible and trim the vessel to ensure complete stripping.
2. Close all valves on the engine room manifold.

3. Introduce the first dose of CLEAN BREAK through the sounding pipe, following the dosage table below, and fill the tank to 25% of its capacity with seawater. It is advised not to use the ballast lines, as they may contain fuel oil, making cleaning more difficult.
4. Heat the cleaning solution to a minimum of 60°C and maintain the temperature for 48 hours. If heating coils are unavailable, use live steam to heat the solution and maintain the temperature.
5. Empty the tanks completely, fill them to 50% capacity, and empty them again. If using a single-stage cleaning process, disregard the previous steps. Add the second dose of CLEAN BREAK and fill the tank with seawater to 50% of its capacity, continuing heating and maintaining this level for 48 hours.
6. Add more seawater to fill the tank to 75% capacity, continue heating, and maintain for another 48 hours.
7. Empty the tanks and perform a pressure rinse with clean water through the sounding pipes for 1-1 hour under continuous stripping. Ensure that the pressure is as high as safety permits.
8. When the rinsing is completed, stop the discharge (stripping) pump and fill the tank until clear water runs from the sounding pipes on the deck.
9. Stop the water supply and empty (strip) the tank. Trim the vessel to ensure complete stripping.

Note: If the tanks are not severely contaminated and / or the fuel oil viscosity is lower than 180 cSt at 50°C, the cleaning process should use only steps 5-10.

Health Safety and Environment (HSE)

Uniservice Unisafe Srl have carefully developed their products to minimize the safety risks and environmental impact of using their products. However, Uniservice advises that, prior to using its products, users should read in detail the accompanying Safety Data Sheet and ensure that its products are applied within the required HSE regulations of the country in which the user operates. Best practice and safety requirements should be followed which will likely include method statements and risk assessments, together with any specific requirements of the user's own company HSE requirements.

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Important Notice

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, this information is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you do a test to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by Uniservice Unisafe Srl hereunder are given gratis, and Uniservice Unisafe Srl assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk. Product images are for reference purposes only.

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