

ALKACLEAN

Heavy-Duty Alkaline Cleaning for Tanks and Boiler Fire Sides (Water-Based)

Technical Information

Physical Data

Appearance:	Clear light amber liquid
Apparent Specific Gravity:	1.34 at 20°C
Flash Point:	None
pH Value (10%):	13 at 25°C
Corrosive action:	Avoid contact with aluminum, tin, zinc, or their alloys.

Description

A strong alkaline liquid degreasing agent for the removal of vegetable, fish, and animal oils and fats from epoxy/polyurethane-coated or stainless steel tanks using the injection or circulation method. Thorough saponification and emulsification provide an economical removal of vegetable and animal oils. It can be used on most common metals except aluminum, tin, zinc, and galvanized metals. Safe for use on epoxy and polyurethane coatings but unsuitable for use on zinc silicate coatings, most paints, and lacquers. It also deodorizes certain residues.

Applications

Steam Boilers

Prior to acid cleaning of steam boilers contaminated with oil, grease, or silicates/calcium sulfates, it is advantageous to perform a boil-out operation with ALKACLEAN.

Tanks

Suitable for removing fatty acids, fish oils, and other drying or semi-drying oil deposits present as residues in storage and cargo tanks. It is highly effective on dried oil films. When transitioning from "black oils" to "white oils" or from "black oils" to "grain cargo," it is a useful final treatment.

Directions For Use – Product Dose

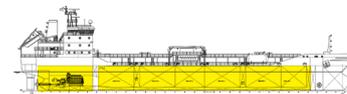
Cleaning of Steam Boilers

Fill the boiler with a 5-10% solution of ALKACLEAN in water. Depending on the degree of contamination, allow this solution to circulate for 12 to 24 hours at a temperature of 100°C. After this boil-out operation, completely drain the warm cleaning liquid and rinse the boiler thoroughly with cold water.

Tank Recirculation Method

ALKACLEAN is added to a mixing tank containing a water quantity of 1% of the capacity of the tanks to be cleaned. The solution is heated using the heating coils in the tanks. The tanks are washed using a cargo pump, after which the solution is recycled to the mixing tank. Usually, one solution can be used to wash 2-3 tanks. ALKACLEAN is circulated as a 5-10% solution at 80-90°C for a period of 2-6 hours. After circulation, rinse thoroughly with water.

USAGE AREAS



Tank Cleaning and Maintenance

PACKAGING



APPROVALS



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Direct Injection Method

Inject 1-2 liters of ALKACLEAN per 100 liters of wash water directly into the tank washing system. The recommended cleaning temperature is 80°C. When completed, rinse thoroughly with water.

Closing Remarks Regarding Cleaning

In many cases, an after-treatment with Uniservice RUST REMOVER solution is recommended for the removal of white lime deposits originating from seawater and/or residues from the cargo. Inject 0.5 liters of UNISERVICE RUST REMOVER per 100 liters of wash water directly into the tank washing system for approximately 20 minutes. The recommended temperature is 75-85°C. Finally, rinse the tanks thoroughly with cold fresh water.

Boiler Firesides Cleaning

Use a 10% to 20% solution of ALKACLEAN with fresh water. For deposits that are very hard to remove, a concentrated solution of up to 50% can be used.

Boiler/Heat Exchangers Water Side Cleaning

Generally, the amount required is 4% of the unit capacity, depending on conditions. The above dosage may be increased to 5-10%.

For cleaning oil contamination from boilers, condensers, and other heat exchangers (water side):

1. Blank off the unit to ensure it is isolated.
2. Drain the unit of all water.
3. Connect a steam hose, preferably to the bottom of the unit.
4. Connect a small recirculating pump if available. If not, use steam for agitation, vent the unit at the highest possible point to prevent pressure build-up and allow the escape of fumes.
5. Pour 4% of ALKACLEAN of the total capacity into the unit, ensuring that all drains are closed to prevent the loss of chemical.
6. Add fresh water to the top of the tube bundle lever or minimum water level in boilers.
7. Heat to at least 60°C (140°F) and recirculate for a minimum of 12-24 hours after the temperature is attained.
8. After heating and recirculation or agitation, dump the solution from the unit.
9. On boilers, flush each tube with fresh water to remove oil residues.

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.

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.

Contact

For further information, please contact your local Uniservice Unisafe sales representative or get in touch with us:

Uniservice Unisafe SRL
Marine Chemicals Division
 Via al S.N.S. della Guardia 58a
Genoa 16162 Italy
 (+39) 010 711 395
 (+39) 010 713 120
 www.uniservicemarine.com