

# ALKACLEAN

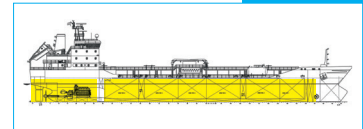
## Heavy Duty Alkaline Cleaning of Tanks and Boiler Fire Sides Water Based

### 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 aluminium, tin, zinc or their alloys. |

#### USAGE AREAS



#### APPROVALS



#### DESCRIPTION

Strong alkaline liquid degreasing agent for removal of vegetable, fish and animal oils and fats from epoxy/polyurethane coated or stainless steel tanks by injection or circulation method. Thorough saponification and emulsification provides economic removal of vegetable and animal oils. Can be used on most common metals except aluminium, tin, zinc and galvanised metals. Safe to use on epoxy and polyurethane coatings but it is not suitable for use on zinc silicate coatings, most paints and lacquers. Deodorises certain residues.

#### APPLICATIONS

##### Steam Boilers

Prior to acid cleaning of steam boilers which are also contaminated with oil and grease or when silicates/calcium sulphates are present it is advantageous to first perform a boil out operation with ALKACLEAN.

##### Tanks

Suitable for removal of fatty acids, fish oils and other drying or semidrying oil deposits present as residues in storage and cargo tanks. It is very effective on dried oil films. When cleaning from "black oils" to "white oils" and 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 away the warm cleaning liquid and rinse the boiler thoroughly with cold water.

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## 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 by using the heating coils in the tanks. The tanks are washed by 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.

## Direct Injection method

Inject 1-2 litres of ALKACLEAN per 100 litres 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 sea water and/or residues from the cargo. Inject 0.5 litre UNIservice RUST REMOVER per 100 litres of wash water directly into the tank washing system for approx. 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 which 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 increase to 5-10%. For cleaning oil contamination from boilers, condensers and other heat exchangers (water side):

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

## IMPORTANT NOTICE

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