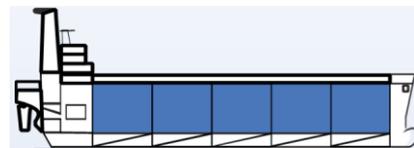


### TANK CLEANERS



## ALKAKLEEN

HEAVY-DUTY ALKALINE TANK CLEANER FOR DRYING, SEMI-DRYING AND NON-DRYING NATURAL OILS AND FATS

### DESCRIPTION

**ALKAKLEEN** is a powerful, alkaline-based degreaser containing strong surface-active agents to remove oils (drying, semidrying and non-drying), greases and waxes, thanks to its saponifying and emulsifying properties. Also suitable for tank sanitising and deodorising and boiling out new or retubed boilers. It can be used on most common metals except aluminum, tin, zinc, and galvanized metals.

**ALKAKLEEN** is an IMO approved tank cleaner. Only cleaners registered in Annex10 of IMO's MEPC.2/Circular can be used and disposed of at sea for cargo tank cleaning, when the cargo residue slops are disposable at sea. Its composition meets the criteria for not being harmful to the marine environment according to MARPOL ANNEX V.

### APPLICATION

**ALKAKLEEN** is the proper product for most tank cleaning operations. It is applied as a diluted solution to remove greases, vegetable and animal oils, pet coke deposits, dirt and grime. It is also suitable for cleaning large amount of soil. It may also be used for tank sanitising and deodorising prior to changing to foodstuffs. A final wash using **ALKAKLEEN** is necessary for achieving high standard of cleanliness, after tanks have been cleaned with solvent-based tank cleaners.

**ALKAKLEEN** can be used diluted to remove light fuel and lube oils from cargo and storage tanks and associated systems. In addition, it can be used in boiling out new or retubed boilers, as well as in cleaning contaminated boilers and associated systems.

### USE AND DOSING

Instructions are based on experience and are meant only as a guide since circumstances for each tank cleaning operation vary. They are not intended to interfere with the judgment of the vessel's responsible personnel.

**Before Tank Cleaning:** It is recommended that large deposits of oil or other residues in the tank must be removed prior to cleaning, to ensure an effective cleaning operation. Furthermore, this prevents from polymerization and evaporation of the lighter oil fractions.

**Direct Injection:** This is the most economical method for tank cleaning. Use **ALKAKLEEN** by direct injection and follow with recirculation washing, using tank cleaning machines.

**Recirculation:** Depending on contamination, prepare a solution up to 3% of **ALKAKLEEN** in a mixing tank. Using an automatic tank washing machine, recirculate for 2 to 6 hours at 60-80°C. Heat is normally achieved using heating coils in the tanks. Pay attention to the maximum recirculation temperature of the solution, as the polymerising nature of some natural oils demands lower cleaning temperatures. The volume of the recirculating tank washing system should be carefully calculated to ensure that there is sufficient cleaning solution for continuous recirculation. One cleaning solution normally cleans 2 to 3 tanks. After chemical cleaning, tanks should be rinsed thoroughly with water.

- ✓ Removes drying, semidrying and non-drying natural oils and fats.
- ✓ Saponifies and emulsifies residues for economical removal of vegetables, fish and animal oils, and greases
- ✓ Sanitizer
- ✓ Deodorizer
- ✓ Strong surface acting agent
- ✓ Versatile
- ✓ No solvent-based product
- ✓ Non-flammable
- ✓ Effective and economical in use
- ✓ Leaves no oily film
- ✓ IMO approved tank cleaner

### PROBLEMS SOLVED

- ✓ Drying, semi-drying and non-drying natural oils and fats
- ✓ Vegetables & animal oils and edible fats
- ✓ Tank freshening
- ✓ Light fuel, lube oils, hardened oxidized oil, grease deposits and waxes

### APPLICATION AREAS

- ✓ Cargo tanks
- ✓ Boiler fireside tubes
- ✓ Railings and other structural surfaces
- ✓ General cleaning

PRODUCT CODE: MC 087

**Manual Cleaning:** Wear protective clothing including goggles and face masks to prevent liquid from splattering into the eyes. Scrub the area to be cleaned with a brush or broom using generous amounts of the cleaning solution (**ALKAKLEEN** diluted in fresh water; the strength of the solution depends on the degree of the contamination). Flush cleaned surfaces with water.

**Changing Refrigerated Cargoes:** When changing refrigerated cargoes, the need may arise to clean holds to remove animal or vegetable fat and deodorize before the next cargo. A 5-10% solution of **ALKAKLEEN** in fresh water can be used for this purpose, and may be sprayed on neat and high pressure hosed off.

**Boiler Fireside Cleaning:** Spay a 5-10% hot solution should be applied to the surfaces to be cleaned. Allow solution to penetrate for 20 minutes and flush off. For deposits which are very hard to remove, increase the concentration and repeat if necessary.

### PRODUCT PROPERTIES

Concentrated product is incompatible and corrosive for aluminum, zinc, tin, magnesium and their alloys. It is recommended to test all cleaning chemicals on a small area of tank coating, before full scale application. General Instructions: Avoid spillage, splashing and mishandling. Precautionary measures for body protection are strongly recommended before and during use.

Appearance:	Liquid	pH (undiluted):	Alkaline
Type:	Water based	Flash Point:	None