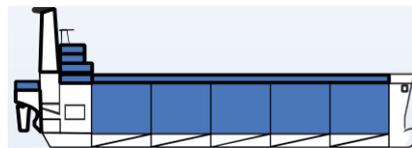


### TANK CLEANERS



## HOLDCLEAN

### HEAVY-DUTY WATER-BASED TANK CLEANER AND DEGREASER

#### DESCRIPTION

**HOLDCLEAN** is a strong, water-based cargo tank cleaner in combination with fast acting wetting agents. It can be used neat or diluted with water depending on the degree of contamination, type of surface, hardness of water and temperature.

It provides excellent cleaning of animal, vegetable oils and fats and mineral oils/petroleum products, greases, waxes, sludge, carbon deposits, dirt and grime. Very effective against inert gas soot. Dissolved in water, it is suitable for removing lighter grease, oil, pet coke and dirt deposits. It works well in hard, soft, ambient and hot water. Dries leaving a good shine.

**HOLDCLEAN** is an IMO approved tank cleaner. Only cleaners registered in Annex 10 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

**HOLDCLEAN** is suitable for cleaning tanks and refrigeration vessels, as well as soot removal from Inert Gas Systems and general cleaning.

Furthermore, it can remove stains from cargo holds after coal and pet coke. When applied on vertical surfaces, add **ALPHA FOAM BOOST**, a foam boosting additive.

#### 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 tanks and lines are well stripped and drained. Do not overheat as this may change the characteristic of the cargo and in some cases burn the cargo on the bulkhead. Carefully read the cargo specification. Precleaning tanks with high pressure warm water is highly recommended since large deposits of oil or other residues in the tank must be removed to ensure an effective cleaning operation. In the case of drying or semi-drying oils (vegetable, animal and fats), prewash with cold water as soon as possible after completion of discharging to prevent formation of hard tenacious residues.

**Recirculation:** In the service tank, prepare a solution of 1-5% (or stronger for heavily contaminated surfaces) of **HOLDCLEAN** in fresh water. Recirculate the solution at 65-70°C for 2-8 hours, depending on the cargo and size of tank. One solution is usually sufficient to clean 3-4 tanks. Rinse the tanks for 1-3 hours with warm sea water at 55-60°C. Finally, flush tanks with freshwater to remove salts, mop and dry.

**Direct Injection:** Prepare a 0.1-2.0% solution for the tank washing machines (1-20 litres per ton wash water). Stronger solutions may be required, for heavily contaminated surfaces.

- ✓ Removes animal fats and veg oil residues (drying/semi drying)
- ✓ Removes soot
- ✓ Versatile; a wide range of uses
- ✓ Leaves no film in the cargo tanks
- ✓ Non-flammable
- ✓ Fully biodegradable
- ✓ Effective and economical in use
- ✓ IMO approved tank cleaner

#### PROBLEMS SOLVED

- ✓ Baked-on oils
- ✓ Heavy greases
- ✓ Animal fats
- ✓ Veg oil residues (drying/semi drying)
- ✓ Pet coke residues

#### APPLICATION AREAS

- ✓ Cargo tanks
- ✓ Cargo holds
- ✓ Bulkheads
- ✓ Decks
- ✓ Railings and other structural surfaces
- ✓ General cleaning

PRODUCT CODE: MC 084

**Spray Method:** Spray undiluted or up to 20% in fresh water directly on the stains. Allow solution to penetrate soil for about 30 minutes before rinsing off with water. Always wash off before chemicals dry on the surface.

**Removal Inert Gas Systems (IGS) soot:** Using high pressure cleaning equipment, spray **HOLDCLEAN** onto the surface, mixing 1 litre per 4 litres of water. When using a hand sprayer, apply 1 litre of neat **HOLDCLEAN** per 12 m<sup>2</sup>. Allow solution to penetrate soil for about 30-45 minutes and then wash off thoroughly with high pressure fresh water, heated up to 80°C. Always wash off before chemicals dry on the surface. Repeat the procedure, if necessary.

**Cargo Holds:** Add **ALPHA FOAM BOOST**, a foam boosting additive in **HOLDCLEAN**. Apply a solution of 20% in water, using appropriate equipment. Allow solution to work for about 10-15 minutes, but do not allow chemicals to dry on the surface. Wash off thoroughly with high pressure fresh water, working from the lowest parts first and upwards. Repeat the procedure, if contamination persists.

## PRODUCT PROPERTIES

Concentrated product is incompatible with aluminum, zinc, tin 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