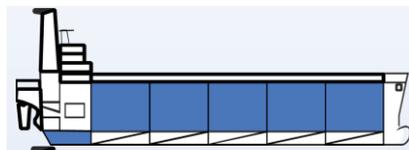


ALPHA BILGE & TANK CLEANER

CONCENTRATED HEAVY-DUTY TANK & BILGE CLEANER

TANK CLEANERS



DESCRIPTION

ALPHA BILGE & TANK CLEANER is a strong emulsifying tank cleaner used to remove heavy crude oil, soot, asphalt, and carbon black stains. It is solvent-based and suitable for most common metal surfaces. It has a wide range of applications and is used diluted or neat for cleaning cargo tanks, deep tanks, and bilges. It can be applied using any of the standard tank cleaning methods including machine cleaning, rock-and-roll or hand spraying.

APPLICATION

ALPHA BILGE & TANK CLEANER can be used for the removal of most mineral oils and fats in cargo and storage tanks, as well as for cleaning and gas freeing of double bottom tanks where the rolling motion of the ship will normally provide sufficient agitation. **ALPHA BILGE & TANK CLEANER** is suitable for use in recirculation, direct injection, spraying or rock-and-roll cleaning methods. It may also be used for engine rooms and/or deck cleaning and degreasing, limiting the number of different cleaning detergents required onboard.

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 to prewash the tanks with hot water. For drying or semi-drying oils, a prewash with cold water should be carried out immediately after discharge of cargo to prevent hardening of oil residues. After 1 cycle, slowly start to rise water temperature to increase effectiveness of the prewash.

Direct Injection: Undiluted **ALPHA BILGE & TANK CLEANER** should be injected at a predetermined rate into the pressure side of the automatic tank cleaning system line on deck, by means of an air operated drum pump. Usually, an injection rate of 1 to 2 liters of **ALPHA BILGE & TANK CLEANER** per ton of wash water is sufficient. Cleaning time is normally 2 to 6 hours followed by thorough rinsing with fresh water.

Spray Method: Spray undiluted **ALPHA BILGE & TANK CLEANER** directly onto bulkheads, frames, stringers, etc., using an air-operated drum pump connected with a delivery hose and hand spray gun. After a predetermined reaction time, tanks should be rinsed with water using the automatic tank washing machines. For spot cleaning only, use a hand-held hose for rinsing, such as a fire hose with nozzle. The hand spraying method is the most economical system in terms of chemical consumption, but requires tanks to be gas free before entering. However, the hand spraying method has a practical time limitation depending on tank sizes.

- ✓ Concentrated emulsifier with a wide range of applications for cleaning and degreasing
- ✓ Cost effective, for machine and manual spraying and rock-and-roll cleaning procedures
- ✓ Quick penetration
- ✓ Reduces cleaning time
- ✓ Cleaning and gas-freeing of crude and refined mineral oil cargo tanks
- ✓ Cleaning and gas-freeing of double bottom, deep and other fuel oil tanks at sea
- ✓ Non – toxic and environmentally safe
- ✓ Composition conforming to MARPOL ANNEX V

PROBLEMS SOLVED

- ✓ Oil & Organic Deposits Cleaning
- ✓ Fuel Oils/Heavy Crude Oils Cleaning
- ✓ Oil/Water Separator Systems
- ✓ Gas freeing of deep tanks and fuel oil tanks

APPLICATION AREAS

- ✓ Bilges
- ✓ Ballast tanks
- ✓ Cargo tanks
- ✓ Deep & double bottom tanks
- ✓ Fuel oil tanks
- ✓ General cleaning

PRODUCT CODE: MC 011

Recirculation Method: Prepare a 1-2 % solution of **ALPHA BILGE & TANK CLEANER** in one of the after tanks near the pump room. Using an automatic tank washing machine, recirculate for 1 to 3 hours at 20-50°C. Heat is normally achieved using the heating coils in the tanks being cleaned. The volume of the recirculating tank washing system should be calculated to ensure that there is sufficient cleaning solution for continuous recirculation. One cleaning solution may clean 2-3 tanks depending upon the degree of contamination. After chemical cleaning, the tanks should be rinsed thoroughly with sea or fresh water.

Cleaning Double Bottom Tanks at Sea: Time, temperature, and agitation of chemical solution are important factors for successful cleaning of the double bottom tanks. If tanks are not severely contaminated and/or the fuel.

oil viscosity is lower than 180cSt at 50°C, the cleaning process should be in one stage, using steps 4 to 10 only.

1. Heat tank to a high temperature (higher than normal), pump out as much fuel as possible and trim vessel to ensure complete stripping.
2. Close all valves on engine room manifold.
3. Inject first dose of **ALPHA BILGE & TANK CLEANER** through the sounding pipe, in accordance with the dosage information stated below and fill the tank to 25 % of its capacity with sea water. For filling the tanks, it is advised not to use the ballast lines as they may contain fuel oil, making the cleaning more difficult.
4. Heat cleaning solution to a minimum of 60°C and maintain temperature for 48 hours. If heating coils are not available, live steam may be used for heating the solution and maintaining the temperature.
5. Empty tanks completely, fill to 50 percent capacity, and empty again.
6. Add second dose of **ALPHA BILGE & TANK CLEANER**, fill tank with sea water to 50% of its capacity and continue heating and maintain at this level for 48 hours.
7. Add additional sea water to fill tank to 75% capacity, continue heating, and maintain at this level for 48 hours.
8. Empty tanks and pressure rinse with clean water through sounding pipes for 1-2 hours under continuous stripping. Pressure should be kept as high as safety permits.
9. When rinsing is complete, stop discharge (stripping) pump and fill tank until clear water runs from sounding pipes on deck.
10. Stop water supply and empty (strip) tank. Trim vessel to ensure complete stripping.

PRODUCT PROPERTIES

Compatible with all normally used metals and their alloys. Rubber/synthetic rubber may swell. 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):	N/A
Type:	Organic based	Pour Point:	< - 15°C

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

vs.2

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