IMO Approved Tank Cleaning Chemicals

TC1 Aquamarine Aquawash T1080A

Suitable for the removal of fatty acids, fish oils and other drying or semi-drying oil deposits.

Usage Instructions

Tank Recirculation Method
Aquamarine Aquawash is added to a mixing tank containing a fresh water quantity of 1% of the capacity of the tank to be cleaned. Using a cleaning solution of 0.2-2% heated to 60-80˚C,wash the tanks by circulation for 2-6 hours, after which the solution can be recycled to the mixing tank for reuse.

One solution can normally be used to wash several tanks.. After circulation rinse thoroughly with water.

Direct Injection Method
Inject 1-2 litres of Aquamarine Aquawash per 100 litres of wash water directly into the tank washing system. Heat to 60-80˚C. After cleaning rinse thoroughly with water.

Boiler Treatments

03 Liquid Boiler Water Treatment Extra
pH, corrosion, scale and sludge controller for boiler water

Description
Aquamarine Boiler Water Treatment is a combined concentrate liquid alkaline product that inhibits corrosion, controls alkalinity, controls hardness and oxygen. It is easy to use, non-hazardous and effective. It functions by neutralising acid conditions, precipitating salts, sludge conditioning and oxygen scavenging. For additional Oxygen Scavenger please see separate product details.

Use
Boiler water additive for low/medium pressure boilers (up to 250 psi).

Application
Aquamarine Boiler Water Treatment is fed into the water feed line by means of a continuous feed dosing pump.

Initial dose: 2.4 litres of Boiler Water Treatment/tonne in the boiler water system.

P. Alkalinity p.p.m. CaC03	0	50	100	150	200	225	300	Above 300 Blow-down Required
Litres/tonnes Dose BWT	2.4	1.8	1.2	0.6	0	0	0	

Please download a boiler water log sheet from the log sheet section on the CD or from our website www.bayer-wood.co.uk. Logs should be submitted monthly for analysis and a report will be sent out by the end of the month in which they are received.

Key parameters are PAlkalinity, Chloride and Sulphite
- Above 200 p.p.m. no dose is required but above 300 PAlkalinity p.p.m. blow down should be implemented
- Sulphite should be kept at 30-50 p.p.m or according to manufacturer's guide-lines
- Chloride content should be controlled below a level of 200 p.p.m. (Above 200 - Blow-Down)

Please ensure that all the test reagents are within the date on the bottle before using.

Feedwater Temperatures - Some typical issues
Temperature of the hotwell is too low. (The temperature should be kept between 70° - 80° C to reduce the oxygen content):

- Return condensate lines and make up line are fitted above the water level. (Tubes to be length under the water level to avoid oxygen intake) Hotwell covers open! (steam cushion left)
- Temperature of hotwell is above the 90° C. (Temperature must be kept maximum 90° C to avoid cavitation)
- Feed pump should be placed on the same level as the hotwell or one deck lower to avoid vapour formation in the pump

Aquamarine BWT test kit is available for accurate system checking. Pack Size 25 Ltr. (see under Test Kits)

Ref. No. J150 6850-99-834-9159

Visit: www.aquamarinechemicals.com for log sheet downloads.
Email your log sheets to us monthly at: logs@bayer-wood.co.uk

TC3 Caustic-Free Alkaline Cleaner

Suitable for the removal of fatty acids, fish oils and other drying or semi-drying oil deposits.

Usage Instructions

Tank Recirculation Method
Aquamarine Caustic-Free Alkaline Cleaner is added to a mixing tank containing a fresh water quantity of 1% of the capacity of the tank to be cleaned. Using a cleaning solution of 0.1-1% heated to 60-80˚C, wash the tanks by circulation for 2-6 hours, after which the solution can be recycled to the mixing tank for reuse.

One solution can normally be used to wash several tanks.
After circulation rinse thoroughly with water.

Direct Injection Method
Inject 0.5- 1 litre of Aquamarine Caustic-Free Alkaline Cleaner per 100 litres of wash water directly into the tank washing system. Heat to 60-80˚C. After cleaning rinse thoroughly with water.

TC4 Neutral HCF

A neutral degreaser for the removal of vegetable, animal oils and fats from zinc silicate coated or aluminium tanks.

Usage instructions

Prewash
First before using Aquamarine Neutral HCF it is necessary to prewash tanks with hot water at 50˚C.

Tank Recirculation Method
Aquamarine Neutral HCF is circulated in a 1-2% solution heated to 20-60˚C depending on the cargo 2-6 hours..

One solution can normally be used to wash several tanks.
After circulation rinse thoroughly with fresh water.

TC5 Natural Zest T1335A

Suitable for the removal of mineral oils and greases, lubricants, asphalt, coal tar, fatty acids, fish oils and other drying or semi-drying oil deposits.

Usage Instructions

Prewash
First before using Aquamarine Natural Zest it is necessary to prewash tanks with hot or cold water as appropriate.

Tank Recirculation Method
Aquamarine Natural Zest is added to a mixing tank containing a fresh water quantity of 1% of the capacity of the tank to be cleaned. Using a cleaning solution of 0.2-1% heated to 20-80˚C depending on the cargo, wash the tanks by circulation for 2-6 hours, after which the solution can be recycled to the mixing tank for reuse.

One solution can normally be used to wash several tanks.
After circulation rinse thoroughly with water.

Direct Injection Method
Inject 0.1-0.2 litres of Aquamarine Natural Zest per 100 litres of wash water directly into the tank washing system. Heat to 20-80˚C. After cleaning rinse thoroughly with fresh warm water.

TC6 Rust Remover

- Acidic liquid product for the cleaning of aluminium, copper and removal of rust stains on paint work.
- It may be used for the removal of lime staining in tank cleaning operations
- Cleans and brightens aluminium and copper.
- Removes rust stains without risk to paintwork.
- Safe on most common metals.

Usage Instructions for tank cleaning applications

If lime scale stains are present after completion of tank cleaning operations, inject 0.5 litres Aquamarine Rust Remover per 100 litres washing water directly into the automatic washing system for approx. 20 minutes. The recommended temperatur e is 75°C -85°C.

TC7 Strong Alkaline Cleaner T1108A

Suitable for the removal of fatty acids, fish oils and other drying or semi-drying oil deposits.

Usage Instructions

Tank Recirculation Method
Aquamarine Strong Alkaline Cleaner is added to a mixing tank containing a fresh water quantity of 1% of the capacity of the tank to be cleaned. Using a cleaning solution of 0.1-1% heated to 60-80˚C,wash the tanks by circulation for 2-6 hours, after which the solution can be recycled to the mixing tank for reuse.

One solution can normally be used to wash several tanks, after circulation rinse thoroughly with water.

Direct Injection Method
Inject 0.5- 1 litre of Aquamarine Strong Alkaline Cleaner per 100 litres of wash water directly into the tank washing system. Heat to 60-80˚C.
After cleaning rinse thoroughly with water.

TC8 Tank Cleaner HD

Heavy duty concentrated solvent emulsion cleaner.

Usage Instructions

Tank Recirculation Method
Use a solution of 0.5-3% wash water mixed in the tank to be cleaned, 5-30 litres of Tank Cleaner HD per tonne of wash water. The washing solution should be heated to 60˚C.

After cleaning the solution should be pumped ashore or to the ship slop tanks.

Direct Injection Method
Inject 0.1-0.2 litres of Tank Cleaner HD per 100 litres of tank wash water directly into the tank washing system. Allow a cleaning time of 2-6 hours. After cleaning rinse with water.