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StarMarine

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# ALKALINE (CAUS)

**Strong alkaline liquid degreasing agent for the removal of vegetable, fish and animal oils and fats from epoxy / polyurethane coated or stainless steel tanks by injection or circulation method.**

- \* Very powerful alkaline cleaning agent based on strong anionic surface active agents and alkaline salts.
- \* 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 (For zinc silicate coating we advice the use of Neutral HCF).
- \* Deodorises certain residues.

## Application

### **Steam boilers**

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

### **Tanks**

Suitable for the removal of fatty acids, fish oils and other drying or semi drying oil deposits present as deposits in storage and loading tanks. It is very effective on dried oil films. When cleaning from "black" to "white" and from "black" to grain it is a useful final treatment.



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## **Directions for use**

### **Cleaning of steam boilers**

Fill the boiler with a 5-10% solution of Alkaline (CAUS) in water. Depending on the degree of contamination allow this solution to circulate for 12 to 24 hours at a temperature of 80°C. After this boil out operation completely drain away the warm cleaning liquid and rinse the boiler intensively with cold water.

### **Tank recirculation method**

Alkaline (CAUS) is added to a mixing tank containing a water quantity of 1% of the capacity of the tank 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 tanks. Usually one solution can be used to wash 2-3 tanks. Alkaline (CAUS) is circulated as a 1-3% 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 Alkaline (CAUS) 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 rinsing**

In many cases an after treatment with Metal Deruster solution is recommended for the removal of white lime deposits originating from sea water and/or residues out of the cargo. Inject 0.5 litre Metal Deruster per 100 litres of wash water directly into the tank washing system for approx. 20 minutes. The recommended temperature is 75-85 °C. Finally wash the tanks thoroughly with cold fresh water.

## **Properties**

Strong Alkaline liquid. suitable for use on epoxy coatings and most common metals except aluminium, tin, zinc, galvanised materials and zinc silicate coatings.

Specific gravity (20°C) : 1.32  
Flash point : none  
pH (1% solution) : 12.8

**Contains approx. 30% Sodium Hydroxide.**

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

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