Global
Marine
Solutions

COLD WASH

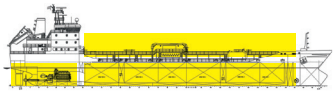
Medium-Heavy Duty Solvent Based Cleaner for Mineral Oil and Grease

Technical Information

PHYSICAL DATA

Appearance:	Clear amber liquid
Apparent Specific Gravity:	0.85 at 20°C
Flash Point:	More than 70° C (158° F)
pH Value (10%):	13 at 25°C
Corrosive action:	Metals & Coatings: None Rubber: Slight swelling

USAGE AREAS



APPROVALS

IMO APPROVED
MEPC.2/CIRC.13 Annex 10

DESCRIPTION

Emulsifying cleaning agent for the removal of medium to heavy mineral oils and fats by spraying and brushing. Based on aliphatic hydrocarbons, non-ionic and anionic surface active agents. It is the most universally applicable product from the series of emulsifying cleaning agents. Safe for use on common metals, epoxy and zinc silicate coatings.

APPLICATIONS

Cooling Systems

Along with the usual lime deposits, traces of mineral oils are often found in cooling systems. These oil and fat deposits hinder optimum removal of the hardness deposits when using acid cleaners (e.g. SAFE DESCALER). In such cases, it is recommended to use an emulsifying cleaner before acid cleaning, to remove these deposits. UNISERVICE COLD WASH is ideal in these cases.

Spraying

COLD WASH can be sprayed undiluted onto the components to be cleaned.

Tanks

COLD WASH can be used for the removal of most mineral oils and fats in cargo or storage tanks (see instruction below).

DIRECTION OF USE

Cleaning of Cooling Systems

Fill the cooling system with an emulsion of COLD WASH and water. Depending on the degree of contamination, 100 litres of cleaning liquid should contain 5-10 litres of COLD WASH. Allow this emulsion to circulate for 12-24 hours at maximum temperature of 60°C. After this operation, drain the cleaning liquid and rinse the system thoroughly with water until the outlet water remains clear. Add cooling water treatment (e. g. UNISERVICE N.C.L.T.) into the system.

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Spray Method
Spray the objects to be cleaned until they are thoroughly dampened with undiluted COLD WASH. Let the product react for 20-60 minutes, then rinse the objects thoroughly with water.

Note: Objects subject to corrosion should not rinsed with water, use in this case LECTROCLEAN FAST DRY.

DIRECTIONS FOR CLEANING OF CARGO AND STORAGE TANKS

Pre-wash
Before cleaning with COLD WASH, it is recommended to prewash tanks with hot water of approximately 50°C except for crude oil, drying and semi-drying oils where a prewash with cold water should be applied.

Direct Injection Method for Cargo Tanks
Undiluted COLD WASH 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 (barrel) pump. Usually an injection rate of 0.1 0.2 liter COLD WASH per 100 liters of tank wash water is sufficient. Cleaning time 2-6 hours. Subsequently rinse with water.

Tank clearing procedure from DPP to CPP/Gas Free
1. Butterworth for 2-3 hours with sea water close to and max. temperature 50°C.
2. Butterworth for 2 hours with sea water close to 60° to 70°C in second time.
3. Create a mixture (5%) of COLD WASH in a slop tank, keep water mixture temp around 80°C and use this water for recirculation inside the cargo tanks. Each tank recirculation for about 2 hours. You may need to change/create new solution, when the water inside slop tank becomes very black.
4. Butterworth for 1-2 hours with hot (80°C) sea water.
5. Check the tank for sludge. Whenever sludge is present, you may need to vent and gas-free and then manually de-muck the cargo tank, prior giving another 1 hour of hot sea water wash.
6. Rinse with Fresh water for 30 minutes at ambient temperature. Vent / mop / dry and de-muck as required.

Hand Spraying Method
Spray undiluted COLD WASH on to bulkhead, frames, stringers, longitudinals 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 hand held hose for rinsing, for instance a firehose with nozzle. Hand Spraying Method is the most economical system in terms of chemical consumption but requires tanks beeing gasfree enabling men to enter tanks. However, Hand Spraying Method has a practical time limitation depending on tank sizes, i.e. total tank surface to be sprayed.

At Sea Cleaning Method (for Double Bottom Tanks)
Time, temperature and agitation of chemical solution are important factors for the successful cleaning of Double Bottom Tanks.
1. Heat tank to higher than normal temperature, pump out as much fuel as possible and trim vessel to ensure complete stripping.
2. Close all valves on engine room manifold.
3. Introduce first dose of COLD WASH, through the sounding pipe, in accordance with the dosage table 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 minimum 60°C and maintain temperature for 48 hours. If heating coils are not available, live steam may be used for heating the solution and maintain temperature.
5. Empty tanks completely, fill to 50% capacity and empty again. Where single stage cleaning is used the previous steps are ignored. (*follow*)

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6. Add second dose of COLD WASH and fill tank with sea water to 50% of it's capacity, continue heating and maintain at this level for 48 hours.
7. Add further sea water to fill tank to 75% capacity, continue heating and maintain for another 48 hours.
8. Empty tanks and pressure rinse with clean water through sounding pipes for 1-1 hour under continuous stripping. Pressure should be kept as high as safety permits.
9. When rinsing is completed 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.

Note: If tanks are not severely contaminated and/or the fuel oil viscosity is lower than 180 cSt at 50°C the cleaning process should be in one stage using step 5-10 only.

IMPORTANT NOTICE