

Maritime and Petroleum Industry Applications



Universal Characteristics

SWR™ is non-toxic, biodegradable, safe to use, non-flammable, and acts as a rust, scale, and corrosion cleaner and inhibitor.

Maritime Applications

General Cleaning

Cleans oil, grease, carbon deposits, and dirt in engine rooms and cargo holds, on bulk heads and decks, and in crew living and duty quarters. Lifts and removes oil and grease that has been baked on to hot engine parts, steam lines, etc. An ideal cleaner for reusable filters in engine fuel and lubrication systems.

Oil and Water Separation

Increases the effectiveness of oil/water separation systems and extends the life of disposable filters. Completely separates oil from oil/water emulsions in the bilge. Solids in the bilge (both settled-out and suspended) will be cleaned of hydrocarbon contamination and suspended solids will be precipitated to the bottom of the bilge.

Petroleum Industry Applications

Well Treatment

When injected into wells, liquifies and returns precipitated paraffins and asphaltenes to the oil pad and maintains the crude in a fluid state even at reduced temperatures and pressures following treatment. Also relieves clogs due to drilling mud accumulation. Does not physically or chemically alter the crude oil. Will increase flow rates by migrating into the oil-bearing strata and lifting crude oil trapped in the pores of the rock or sedimentary formation. Does not add to hazardous waste disposal problems.

Pipeline Flow Enhancer

Does NOT allow oil and water to mix and maintains crude oils in a liquid state; even at reduced temperatures. Keeps lines and pumps cleaner, boosting flow and cutting maintenance costs. Causes entrained water and inorganic solids to separate from the crude oil, providing a higher grade product at the refinery/terminal.

Cleaning Oil and Sludge Storage Tanks/Pits

Cleans tank walls using normal spray cleaning equipment and does not alter the composition of the recovered product. Separates sludge into three components: (a) precipitated, cleaned solids with low toxicity on the bottom; (b) a barrier solution of water and the SWR product in the middle layer; and (c) separated oil on the top that can be recovered and recycled. Does not create explosive gases or caustic fumes or mists. Final bacterial remediation can be speeded up by a factor of 10 or more.

Desalter/Hydration Facilities

Increases efficiency by forcing emulsified oils to return to the oil component. At the same time, it cleans oils from the solids in the bottom of the desalter. Provides oxidation protection which means longer runs between cleaning and longer component life. Accelerates the breakdown of the phenols and benzene-ring compounds present in waste water sent to the trap system.

Soil Remediation

Removes more than 95 percent of the hydrocarbons from contaminated soils in the first-stage process. Recovered oils may be recycled. Water component requires little, if any, predisposal processing. Times required for second-stage bacterial cleaning of soils are significantly reduced. Total time required for complete remediation is reduced from years to weeks.



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