



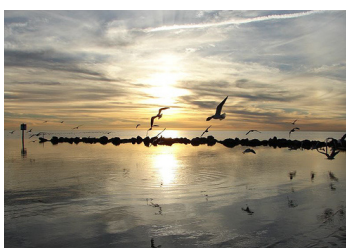
Saving World Resources

SWR One Beach Protectant and Cleaner

SWR is a biological agent that naturally and safely separates oil from water. Used most broadly in oil fields and oil storage, SWR is also effective for use in water and beach cleanup and as a repellent following large oil spill disasters. The only known cleaning solution that promotes the separation of the removed hydrocarbon from the solution, SWR allows the two to be dealt with separately.

Environmentally Sound Formula

The SWR One formula is non-toxic and biodegradable. EPA-approved, the formula is safe for personnel and friendly to the environment—a logical and responsible replacement for ozone-depleting solvents.



Beach Protectant

SWR One can be used proactively on yet-to-be-affected beaches to avoid costly remediation issues. Spraying clean sand with environmentally-safe SWR creates a natural seal upon which oil and contaminants cannot adhere. Pollutants instead float on the surface of the water until they can be safely and effectively collected. Using SWR as a beach protectant can potentially save millions of dollars in cleanup costs by preventing the worst forms of despoliation.

Beach Cleaner

Following a large oil spill in which grease, oil and grime have infiltrated the water and coastlines, SWR One can be used as an effective beach sand cleaner to allow removal of hydrocarbon contaminants. SWR remains with the liquid phase and can be recycled back to the cleaning process while allowing oil to be recovered free of water and solid contamination. Furthermore, the formula is compatible with existing equipment and technology designated to wash soil.

How SWR Works

1. The SWR family of compounds are powerful water-activated surfactants that separate emulsified oil from water and solids
2. SWR surfactants “grab” or encapsulate water molecules in grease, oil and grime
3. The encapsulation creates a microfilm of compound around the water molecules, resulting in stratified separation of solids on the bottom
4. Bottom = Solids;
Middle = Water Encapsulated by SWR;
Top = Oil





Unique Characteristics of SWR

- SWR is a de-emulsifier that separates solids and water from crude oil
- Non-flammable
- Non-toxic and non-hazardous to humans and the environment
- Fully biodegradable in 30 to 45 days after activation with fresh or salt water
- Re-usable during active life



Powerful Advantages of SWR

- SWR is an aggressive hydrocarbon cleaning system that permits full recovery and reuse of the hydrocarbon involved
- SWR is a fully biodegradable aqueous surfactant-based system, rather than one that is solvent-based
- SWR will clean for a fraction of the cost of most other similar products
- SWR is a liquid, which means no hazardous powders to handle
- SWR is non-toxic, non-hazardous, contains no volatile organic compounds (VOCs) or strong vapors, and has no flash point
- SWR is an excellent cleaner and degreaser
- SWR is biodegradable, environmentally safe and safe for workers
- SWR is easily disposed (no toxic hauling)
- SWR products are well established in heavy-duty industrial cleaning markets such as oil field machinery and freighter engine rooms

“Based upon the toxicity data derived by the Institute [of Environmental and Industrial Health, School of Public Health, University of Michigan], and the intended application of the product for oil removal, **SWR** concentration in the discharge water would not adversely affect the components of the aquatic community.”

- *Peter Meier, Ph.D., The University of Michigan*

“... **SWR Corporation** ... has been placed on our vendors list as a provider of alternatives for the precision cleaning, electronics cleaning and metals cleaning end-uses within the solvent sector.”

- *William Monroe US Environmental Protection Agency*

“We have been using **SWR** to remediate soils contaminated with petroleum hydrocarbons and are very impressed with the effectiveness of your product ... SWR is effective in removing benzene, toluene, ethylbenzene and xylene from soils and we are achieving concentration less than the state required cleanup criteria. We couldn't be more pleased with your product and its performance on this remediation project.”

- *Edward M. Dore Vice President of Operations, Dore & Associates Contracting, Inc*



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