



One cool tool for fighting any kind of fire!

Environmental Concerns

***Which Is Worse For The Environment When Fighting Fires: AFFF Or Just Plain Water?
Who Pays For Contaminated Ground Water And Wastewater Treatment Systems Failing?
We'll Show You How To Take The Time And \$\$\$ Out Of Clean Up!***

Novacool is all about the environment. Aqueous Film Forming Foams (AFFF's) were developed by the U.S. Navy in the 1960's as a way to defeat volatile hydrocarbon fires that pooled on the surface of the water. After many years of use, it became apparent that, in spite of their effectiveness, AFFF's releasing both toxic hydrofluoric acid and fluorocarbons, were damaging the environment and were found to be bio-accumulative in many species. Additionally, the fluorosurfactant compounds that made AFFF's so effective against certain types of fires were also the reason that these agents were resistant to microbial degradation, a necessary ingredient in the ultimate breakdown of these agents that would render them harmless to the environment. Because of this, it was found that ground water supplies were becoming contaminated and wastewater treatment systems were failing.

Novacool UEF is non-toxic and biodegradable. Novacool exceeds EPA guidelines and has been extensively tested by water districts throughout the United States. Novacool contains no EPA or DOT reportable ingredients and does not contain any nonylphenoethoxylates (NPE's) or glycol ethers

Because Novacool UEF is powerful yet environment-friendly, it assists in water preservation and helps prevent water pollution. With Novacool, fewer chemicals are used and less water is used, which also results in less erosive runoff and less water damage to property. Makers of Novacool UEF want to assist firefighters in helping to protect water, land, and other precious resources while extinguishing fires quickly and effectively.

Novacool UEF, a fire extinguishing foam, replaces aqueous film-forming foams and ozone-depleting halon gases, which release both toxic hydrofluoric acid and fluorocarbons into the environment during use. Novacool UEF provides an innovative, highly effective, and environmentally responsible alternative for firefighting. It is effective at approximately one-seventh the concentration of conventional fire fighting chemicals. Novacool works by selective employment of rapidly biodegradable substances, which dramatically enhances the effectiveness of simple water, while eliminating the environmental and toxic impact of other traditional fire extinguishment agents. Because Novacool UEF is mixed with water at only 0.4 percent, an 87–93 percent reduction in product use is realized compared to conventional extinguishment agents typically used at 3–6 percent.

Most currently-used fire suppressants (specifically AFFF's) contain fluorochemical surfactants, Perfluorooctyl sulfates (PFOS), and Perfluorooctylbetaines that can oxidize to Perfluorooctanoic acid (PFOA). PFOA and PFOS do not degrade, which often leads to contamination of groundwater supplies and failure of wastewater treatment systems. These fluorosurfactants are persistent in the environment, and testing has shown them to be bioaccumulative. The Environmental Protection Agency (EPA) has been investigating these aqueous, film-forming compounds because of their environmental buildup and damage to our valuable resources.

Novacool UEF does not contain PFOA or PFOS, NPEs, or glycol ethers. Novacool UEF was tested by CH2M Hill in Corvallis, Oregon for aquatic toxicity and biodegradability and numerous other facilities and



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was shown not to cause toxic buildup or pollute groundwater. Novacool UEF exceeds EPA guidelines and provides an environmentally responsible alternative to harsh extinguishers that pollute valuable resources in our environment.

So Why Novacool UEF?

- 1. Dramatic and immediate COOLING of the fire site!**
- 2. 70% faster extinguishment of the fire!**
- 3. 90% lower water usage!**
- 4. Most cost-effective fire suppressant on the market!**
- 5. Extinguishes A, B, D and K fires and 3D fires; cools, blankets, and emulsifies surfaces; eliminates possibility of re-ignition.**
- 6. Usable with eductors, injectors, CAFS, or batch mixed; non-corrosive: no adverse effects on tanks, pumps, valves, and portioning equipment.**
- 7. Works effectively when mixed with fresh, brackish, or sea water; eliminates run-off and water damage.**
- 8. Non-toxic, biodegradable, UL Listed.**
- 9. Manufactured entirely in the U.S.A.**