



# Wildfire Hazard Protection





**EXPLORING**

# **WILDLAND FIRE HAZARDS**

Wildland fires across the globe are on the rise. As climate conditions continue to worsen, the inclusion of an innovative solution is crucial. Each year, weather related events become more intense. Hurricanes, tornadoes, floods and other natural phenomenon contribute to the erosion of woodlands. As inhabited areas scramble to recover from the damage, natural landscapes often take a backseat. This can result in a buildup of wildland devastation, posing an undeniable fire hazard during warmer seasons.



**SINCE 2000, WILDFIRES  
HAVE BURNED AN ANNUAL  
AVERAGE OF 7 MILLION  
ACRES IN THE UNITED STATES  
ALONE; MORE THAN DOUBLE  
THE ANNUAL AVERAGE  
BURNED IN THE 90S**

**NIIC**

**HAZARD CONTROL TECHNOLOGIES**

150 WALTER WAY, FAYETTEVILLE, GEORGIA 30214 / +1 770 719 5112 / [INFO@HCT-WORLD.COM](mailto:INFO@HCT-WORLD.COM) / [HCT-WORLD.COM](http://HCT-WORLD.COM)



**PROTECT YOUR  
COMMUNITY AND THE  
ENVIRONMENT WITH ONE  
INNOVATIVE ECO-FRIENDLY  
ENCAPSULATOR AGENT**



**FLUORINE FREE**



**BIODEGRADABLE**



**NONCORROSIVE**



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# WILDLAND FIREFIGHTER HEALTH RISKS

## SMOKE, SOOT AND TOXIN EXPOSURE

According to the United States Department of Agriculture (USDA), wildland firefighters are exposed to dangerous levels of carbon monoxide as well as several known carcinogens, including benzene, formaldehyde and certain PAHs.

## AIR DROPS AND REDUCING EXPOSURE

Following extensive testing, F-500 EA was chosen by the Georgia State Forest Service to use in their planes for air drops. Encapsulator Technology can reduce the concentration of toxins present in smoke and soot, greatly improving ground conditions for wildland fire brigades and the surrounding communities they serve.

## NFPA 18A

# ENCAPSULATOR AGENTS (EA)

Encapsulator Agents are a type of water additive whose basic building blocks are spherical micelles capable of encapsulating carbon molecules and both polar and non-polar hydrocarbon vapor and liquid molecules. They possess four unique features, including **Encapsulation, Rapid Heat Reduction, Free Radical Interruption** and **Eco-friendly** benefits.

Encapsulator Agents absorb free radical energy, halting the production of carcinogenic toxins present in smoke and soot at the nozzle.

## HAZARD CONTROL TECHNOLOGIES

# PROACTIVE PROTECTION

## HEALTH

Proactively promote community and firefighter health by utilizing a 1% F-500 EA solution for wildland firefighting. Prevent the concentration of carcinogenic fumes at the nozzle while reducing toxic smoke and soot exposure in your neighborhood in the process.

## SAFETY

Shield homes and businesses from smoke, soot and fire damage. Proactively applying a 1% solution of F-500 EA can protect structures, shrubs and trees for up to two weeks. Pre-treating can prevent fire spread as well as re-ignition in previously effected areas.



**PRE-TREATING**

**1%**

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CASE STUDY

# SOUTH AMERICA



## BOLIVIA

2019

We donated 1,000 liters of F-500 Encapsulator Agent (F-500 EA) concentrate to fight wildfires in the Amazon and protect neighboring communities in Bolivia.



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## CHILE

2019

Chile's government worked alongside our distributor to test F-500 Encapsulator Agent (F-500 EA) using a chinook helicopter equipped with 10,000 liters of F-500 EA solution.



## ARGENTINA

2019

The government in Cordoba invested in F-500 Encapsulator Agent (F-500 EA) to use in backpacks, trucks and air tractors while battling wildland fires.



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