

A new way to prevent and combat forest fires: from preventive protection to effective firefighting using completely non-toxic chemical compositions— MHE, a 100% organic product derived from plants.

Wildfires often start in low-lying vegetation—grass, undergrowth, shrubs, and other dry material near the ground. Once this vegetation ignites, the fire can spread to the trees' branches, foliage, and canopies. When the fire reaches the tree canopies, its spread can accelerate rapidly. The heat and thermal currents generated, combined with prevailing wind conditions, can cause the fire to spread quickly to new areas.

Furthermore, forest fires often occur in terrain that is difficult to access with traditional firefighting equipment. Consequently, aerial water dropping using helicopters or fixed-wing aircraft has become a vital tool for tackling large-scale forest fires. While effective, this method is also resource-intensive and costly.

MHE PFF – preventive protection where the fire starts.

A central strategy is therefore to prevent the low-growing vegetation from igniting.

MHE PFF is a chemical composition developed for use as a preventive surface protection.

The material is applied as a so-called “top-spray-coating” over vegetation and soil and forms a protective coating.

The purpose is to reduce the risk of ignition when vegetation is exposed to open flame or intense heat.

An additional feature is that the coating can help to limit the oxygen supply to material near or below the ground surface. This can affect the conditions for smoldering fires even after the visible flame has ceased.

MHE FF – for active firefighting

MHE FF is developed for active firefighting of forest fires with open flames. Unlike water bombing from the air, MHE FF can be applied directly at ground level, making the material a possible complement to traditional firefighting methods.

By combining preventive soil and vegetation protection with active fire suppression, a strategy is created that can be used both before a fire breaks out and when a fire is already developing.

A complementary technology for future fire protection

MHE PFF and MHE FF are developed with the goal of providing effective fire protection with low environmental impact.

The preventive treatment can help reduce the risk of ignition and fire spread, while the active product is intended for use in the actual fire suppression.

Together, the absolute non-toxic chemical technologies represent a complementary approach: fighting the forest fire where it starts, limiting its spread and streamlining the effort at ground level.

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MHE FF

MHE PFF

MHE Extinguisher Powder/Liquid

MHE Sprinkler Liquid

Tot: € 0.70 MM Euro
