



BLAZETAMER:

Next-Generation Firefighting Solutions

By Dan Reese, Chief Executive Officer, Blazetamer USA

Blazetamer is a technology and chemical-solutions company focused on improving firefighting outcomes for airborne and ground public safety operations. The company's flagship product, Blazetamer380, is a water-enhancing additive that can be deployed via fixed-wing and rotary aircraft, as well as through ground application in direct-attack fire suppression scenarios.

Blazetamer380 is a highly effective fire-fighting solution designed to help control wildland fires faster, with less water and fewer resources. Blazetamer serves fire agencies, aviation firefighting fleets, municipal and state hazardous materials response teams and international disaster organizations. The company's value proposition is built around efficacy, environmental safety and cost efficiency for operators that must deliver rapid ground and airborne fire suppression in challenging conditions.

A Complete 380

Blazetamer380 is a liquid concentrate that can be mixed with water at low dilution rates (0.2–0.65 percent) to improve the

liquid's physical and thermal performance. The water-enhancing elastomer makes direct-attack firefighters two to four times more effective than they can be with water alone.

Blazetamer380's key operational advantages for airborne public safety units include:

- **Improved drop characteristics.** The additive binds water molecules into larger linked clusters, reducing drift and evaporative loss, improving canopy or structure penetration, and achieving denser coverage—all especially important in low-altitude helicopter or airtanker operations.
- **Enhanced thermal effect.** Blazetamer380 resists evaporation 20 percent more than water, is designed to adhere to fuels, introduces endothermic effects that reduce heat, inhibits re-ignition, and suppresses smoke and ember hazards, supporting safer operations, especially in wildland-urban interface and structure-protection applications.
- **Water efficiency and cost reduction.** Because 380 works at lower dilution rates than traditional suppressants and fire retardants (making it approximately

one third of the price of many competing products), agencies can stretch water loads, extend aerial drop reach, reduce pump-and-reload cycles, and achieve similar or improved suppression with fewer sorties or less water volume.

- **Environmental and safety credentials.** Blazetamer380 is non-toxic, non-corrosive and biodegradable, making it suitable for sensitive zones, catchment areas and agencies with strict environmental and personnel safety mandates. Its primary components are used to treat potable water, sick reservoirs and poor soils.

For airborne fire suppression fleets, Blazetamer380 offers multiple strategic advantages: faster first-drop impact, fewer flights required, less drift (important near communities or infrastructure) and a minimized ecological footprint, aligning with the operational and regulatory imperatives of public safety aviation.

Deployment, Training & Practical Considerations

Blazetamer's flagship 380 water supple-

ment is suitable for engines and ground-based equipment, aerial deployment via helicopters (bucket or belly-tank), and fixed-wing airtankers or scooping aircraft using direct injection or ground-based fire apparatus mixing.

For airborne operations, relevant integration considerations include:

- **Pre-flight mix preparation.** The concentrate is added to the water fill, agitated or recirculated via pump systems or injected inline.
- **Compatibility with current aircraft systems.** Because the additive is designed for use with water (rather than slurries, for example), the logistical burden and airframe impact can be less than for some traditional retardant loads—an advantage for helicopter fleets and mixed-mission aircraft. Blazetamer380 may be direct injected with existing onboard systems or loaded using a premixed solution.
- **Training and SOPs.** Crews and support personnel can easily be trained—by Blazetamer’s capable technicians—in mixing procedures, aircraft load planning, safety and spill-cleanup protocols, and mission-planning for drop profiles that exploit the improved performance of the mixture.
- **Regulatory/operational approval.** With Blazetamer’s assistance, agencies can validate local airworthiness, environmental permits and incident-command integration while ensuring

compatibility with ground-based fire-management systems. Because Blazetamer380 is listed on the U.S. Forest Service Qualified Product List for water enhancers, it has recognized credibility in aerial suppression and ground-applied markets.

Strategic fit for Public Safety

For ground and airborne operations engaging in wildfire initial attack, structure defense or interagency support, the strategic value of Blazetamer380 is clear. Using the additive allows aviation managers to:

- Enhance deployment and drop effectiveness, delivering more useful load by augmenting each liter of water to perform like a larger volume and improving containment probability.
- Reduce overall water consumption and mission count, freeing aircraft hours for other tasks (e.g., reconnaissance, retardant follow-up, aerial support of ground crews) in the face of limited flight-time, fuel and maintenance budgets.
- Improve the capacity for retardant to be more effective, as Blazetamer380 suppresses the heat that can rapidly degrade fire retardant when impacted by extreme fire behavior.
- Mitigate drift and evaporation effects—especially important when working near populated areas, infrastructure or complex terrain where

overspray or unintended deposition could pose risk or liability.

- Maintain environmental and community acceptance, as the non-corrosive, low-toxicity product helps ensure minimal residual impact from aerial drops in sensitive or residential-adjacent mission zones.
- Align operations with evolving fire-suppression doctrine that emphasizes precision, escalation control and data-driven decision making, rather than high-volume blanket coverage.

Looking Forward

Blazetamer continues to invest in operational readiness, distribution infrastructure and training support to ensure that airborne fire units can integrate the product without major disruption to load planning or aircraft logistics. Blazetamer is willing to partner with agencies, aviation managers, procurement leads, airworthiness engineers and incident commanders to evaluate fit-for-mission, develop standard operating procedures, run trials and scale deployment.

Blazetamer is readily available to collaborate with public safety units interested in 380 procurement information, specification sheets, mixing-procedure guides and regional distributor details. The company’s purpose-built water enhancer for airborne public safety fire operations is easy to integrate and immediately effective. For air operations leaders seeking to sharpen first-attack performance and stretch aerial assets further, Blazetamer380 is the ideal solution. ➤

