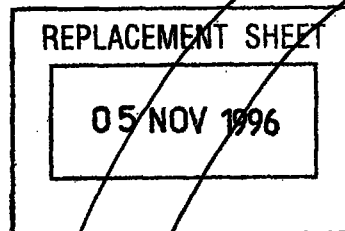


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ABSTRACT

CHEMICAL FIRE EXTINGUISHING AND SURFACE COOLING
COMPOSITIONS AND METHODS OF USING

The fire fighting and hot surface cooling methods of this invention use a composition formed by combining a nonionic surfactant possessing a specific photoexcitable functional group with an arylphosphate, also of photoexcitable nature, in a solvent medium of composition and content that allows for a convenient workable viscosity and is resistant to effects of freezing. The ultimate water solution used for spraying to extinguish a fire or cool a surface contains from 2000 ppm of the surfactant nonylphenoethoxylate and 94 ppm of the arylphosphate, phenol-6-phosphate, to 3000 ppm surfactant and 141 ppm arylphosphate. A nonaqueous composition containing a mixture of different nonylphenoethoxylates to extinguish lithium type fires is also described. The spray solution is applied to the fire until the desired result occurs.



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