

Flame Retardants Additives: a sustainable approach

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In recent years additive flame retardants have played a prominent role in fire safety and fire prevention, saving lives and protecting properties and valuables. The major dilemma for scientists and industry nowadays is striking a balance between the continuously striving for safe chemistry on the one hand and meeting more stringent fire safety regulations on the other.

In reviewing that challenge, additive flame retardants market trends and modern applications will be reviewed, as well as the chemical reaction mechanisms and modes of actions. Emphasis will be placed on reactive and polymeric flame retardants. Finally, an innovative approach to sustainable and appropriate flame retardants will be exemplified by detailing the Systematic Assessment of Flame Retardants (SAFR®) methodology launched to enable direct customers and end-users to optimize their Flame Retardants choice for a given application.

Keywords: Flame retardants, Polymeric flame retardants, Reactive flame retardants, Fire Safety standards.

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