WELLINGTON Reporter
PRODUCT UPDATES FROM WELLINGTON LABORATORIES

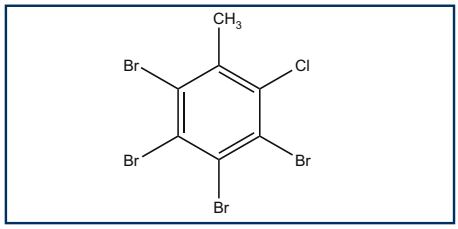
June 2, 2011

NEW BROMINATED FLAME RETARDANTS

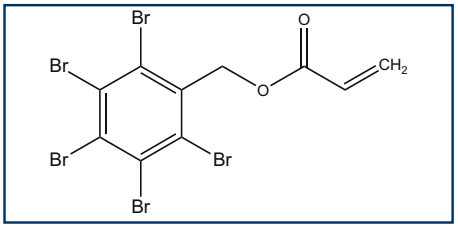
Tetrabromo-*o*-chlorotoluene & Pentabromobenzyl acrylate

Rising concerns associated with the toxicity and ubiquitous nature of conventional brominated flame retardants (BFRs) such as polybrominated diphenyl ethers (PBDEs) have resulted in bans and increased regulations relating to their production and use. In response to this, replacement BFRs are being manufactured and released with little information available about their behaviour in the environment and risk to human health. For example, Tetrabromo-*o*-chlorotoluene (TBCT) is an additive flame retardant that has been recently detected in sediment and suspended particulate matter. It represents one of many non-PBDE flame retardants that are being increasingly detected in environmental matrices. Similarly, polymeric flame retardants are being offered as alternative additive formulations. It is believed that their larger molecular weights make them less likely to migrate out of end use products thereby limiting their release into the environment. However, it is possible that residual monomers, such as pentabromobenzyl acrylate (PBBA), are still present in the polymer product. These monomers are not chemically bound to the matrix and are available for release into the environment.

Wellington now offers both **tetrabromo-*o*-chlorotoluene** (TBCT) and **pentabromobenzyl acrylate** (PBBA) as reference standard solutions.



Tetrabromo-*o*-chlorotoluene (TBCT)



Pentabromobenzyl acrylate (PBBA)

Catalogue Number	Product (toluene)	Qty	Conc
TBCT	Tetrabromo-*o*-chlorotoluene	1.2 ml	50 µg/ml
PBBA	Pentabromobenzyl acrylate	1.2 ml	50 µg/ml

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