SINOYQX Launches Halogen-free Flame Retardant Melamine Polyphosphate

SINOYQX, a chemical entity producing Melamine, Melamine Cyanurate, Melamine Polyphosphate, PVB Resin, Melamine Foam and Melamine Fiber, on November 12, 2013, launches a halogen-free flame retardant, melamine polyphosphate.

Online PR News â€“ 11-November-2013 â€“ SINOYQX, a chemical entity producing Melamine, Melamine Cyanurate, Melamine Polyphosphate, PVB Resin, Melamine Foam and Melamine Fiber, on November 12, 2013, launches a kind of halogen-free flame retardant, melamine polyphosphate with phosphorous and nitrogen structure, which is able to be applied to thermoplastics, thermosetting plastic, rubber, and fiber, especially used for glass-fiber reinforced nylon.

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SINOYQX has the capability of annual 5000 tons of flame retardant, including melamine cyanurate and melamine polyphosphate.

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SINOYQX flame retardant melamine polyphosphate features as lower smoke density, less corrosive to processing equipment, etc and which is able to be used alone or synergistically with other materials.

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Melamine phosphates are substances combining the synergistic effect of melamine (thus N-containing) with P-containing components in one salt. With increasing thermal stability the melamine phosphates can be ranked as follows: Melamine Phosphate Â

Melamine-mono-phosphate, is a salt of melamine and phosphoric acid. Above ~200C melamine phosphate will react to melamine pyro-phosphate with release of reaction water, which will result in a heat sink Above ~260C melamine-pyrophosphate will react under release of reaction water to melamine-polyphosphates which again results in a heat sink effect.

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Above 350C, melamine-polyphosphate undergoes endothermic decomposition thus acting as a heat sink and cooling the combustion source. The released phosphoric acid acts to coat and therefore shield the condensed combustible polymer. The phosphoric acid along with the polymer also works to form a char around the fuel source (polymer) thus reducing the amount of oxygen present at the combustion source. The melamine released also is a blowing source to blow up the char resulting in an intumescent behavior.

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In glass filled applications Melamine phosphate and pyro-phosphate will release water and initiate degradation of the polymer due to the high processing temperatures.

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For technical data sheet and MSDS of SINOYQX melamine polyphosphate, please visit http://sinoyqx.com/Download%20Center/ or email SINOYQX at sales@sinoyqx.com or voice to SINOYQX via 0086-28-6792-0663.

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About SINOYQX
SINOYQX, based in Sichuan, China, is a chemical entity producing Melamine, Melamine Cyanurate, Melamine Polyphosphate, PVB Resin, Melamine Foam and Melamine Fiber.

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