

ECO₂FUME[®] PHOSPHINE FUMIGANT: A TECHNICAL AND ECONOMICAL VIABLE ALTERNATIVE TO METHYL BROMIDE IN STRUCTURAL FUMIGATION

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Cytec Industries have been manufacturing and marketing cylinderized phosphine fumigants for post-harvest applications since 1999. Two product formulations-, **ECO₂FUME[®]** fumigant gas and **VAPORPH3OS[®]** phosphine fumigant are currently available in a number of countries including the US, Canada, Australia, New Zealand, Chile, Argentina, and China.

ECO₂FUME[®] fumigant gas is a ready-to-use blend of 2% phosphine and 98% carbon dioxide. **VAPORPH3OS[®]** phosphine fumigant is 100% phosphine gas approved for on-site blending directly with ambient air. Both products are packaged in high pressure steel cylinders.

ECO₂FUME[®] and **VAPORPH₃OS[®]** fumigant gas products have been proven as commercial and technically viable alternatives to methyl bromide for post-harvest fumigation applications. They are non-ozone depleting fumigants that produce no waste by-products or residue issues. It is easy to apply and control targeted concentrations during fumigations without the use of heat or fans to achieve gas distribution. Cylinderized phosphine fumigants penetrate commodities quickly and aerate with similar ease. They can be applied on a wide variety of commodities and on storages of all sizes.

This presentation will provide an updated on the use of **ECO₂FUME[®]** as a methyl bromide alternative in Mills and Food Processing plants in Canada.