ECO₂FUME® and VAPORPH₃OS® As Methyl Bromide Alternatives Ed Hosoda Cardinal Professional Products

Many food processing companies are proactively converting from methyl bromide to cylinderized phosphine fumigants with great success. ECO₂FUME® and VAPORPH₃OS® have replaced many different applications throughout the United States on many different commodities. Although most phosphine applications require a longer exposure period than methyl bromide, users have made adjustments in their production schedules and have invested in additional fumigation chambers to accommodate the use of these alternatives.

A major nut processor made the transition to VAPORPH₃OS® in their long-term nut storage bins where short term fumigations are not required. This company initially converted to ECO₂FUME® for these applications, but required such a large volume of cylinders, it made economical sense (by purchasing a Fosfoquim HDS-200®) to implement VAPORPH₃OS® in their fumigation program. This use eliminated approximately 50,000 lbs. of methyl bromide per year.

Almond, pistachio, fig, bean and raisin processors have all replaced thousands of pounds of methyl bromide with ECO₂FUME®/VAPORPH₃OS®. Wherever short term fumigations are not absolutely necessary, cylinderized phosphine fumigants have become a suitable option, and are very economical to use. International acceptance of phophine residues (MRL's) also make phosphine a logical choice as an alternative fumigant.