

## HOW IS SULFURYL FLUORIDE PERFORMING AS A METHYL BROMIDE ALTERNATIVE?

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This presentation will address the following areas for sulfuryl fluoride usage in post harvest disinfestations in the United States. Included is background experience, market growth, objective benefit, successful adjustments, dialing into effective dosage rate, and advancements.

We have worked with sulfuryl fluoride for the past 12 years. Starting with the first commercial post harvest fumigation in the US we have treated grain, seed, mills and food processing and storages. Using a wide range of dosage rates we have closely examined the pre fumigation conditions, fumigation data, and post fumigation results. This presentation will provide some of our findings during this period of discovery.

Sulfuryl fluoride was first commercially approved for use in the United States in May 2004. Since this release SF has been met with some resistance in certain markets and openly accepted in others. We will graphically show this annual progression within usage patterns in our company.

For five years SF has defended its efficacy while largely ignoring strength. The penetration capability of SF over that of methyl bromide has greatly improved the balance of performance and cost.

Using SF is not more difficult than the same methyl bromide application. The difference with SF is observation, recognition, and the applicators ability to dial in increased effectiveness and cost reduction.

Understanding the strengths and weaknesses of SF has allowed us to develop efficacious and cost responsible dosage choices. Our methods and journey to pinpoint a comparable SF dosage rate has proven performance in the field for five years

Our industry has put SF under a microscope that never existed with methyl bromide. The benefit of this attention has provided unexpected benefits in the form of greatly improved gas monitoring technology and gas application instruments and equipment. We will provide dialog for how these advancements have improved safety, effectiveness, and a continued path for improvement.