



## SAFEGUARD your Harvest with Confine™

- Economical
- Effective
- Easy to use
- Environmentally friendly

Confine™ fungicide is a potassium phosphite based fungicide that is currently registered for the **post harvest treatment** of russet-skinned potatoes and potatoes intended for processing.

Confine™ is used to suppress **late blight** (*Phytophthora infestans*) and **pink rot** (*Phytophthora erythroseptica*) storage infection.

Classified as a reduced risk pesticide, Confine™ has a **very favourable environmental profile**, having received an exemption from residues from the American Environmental Protection Agency (EPA). This gives growers another tool to manage Maximum Residue Limits (MRLs) on their farms.

### **Phosphite vs. Phosphate**

Not to be confused with “phosphate” (P2O5), **phosphite (P2O3)** has no nutritional value to the plant. Phosphite is readily and rapidly absorbed by the plant and is a systemic compound, moving freely up and down the plant. Phosphates, on the other hand are commonly used in commercial fertilizer (e.g., N-P-K) blends.

Although phosphites eventually convert to phosphates via microbial degradation in soil, the process is very slow and will not occur within the application and growing season.

### **Future of Phosphite**

Phosphite has direct fungicidal activity against oomycetes, and further work is underway to register Confine™ for in-field foliar uses, including for the suppression of *Phytophthora*, *Pythium* and downy mildew in a variety of crop groups. Other well-documented activity is underway for use on bacterial pathogens and white rust. As well, ongoing research for the suppression of silver scurf in potato storage is showing promising results.

Any product that contains phosphite must be registered and or approved by the CFIA and/or PMRA Canadian regulatory bodies. Although numerous phosphite formulations have been marketed and sold as foliar fertilizers, these products are not currently registered and approved for use in Canada – even if no phosphite claim is made and the product is sold as soluble potash. Confine™ is registered.

### **Directions for Use**

Use Confine™ on post-harvest potatoes for suppression of late blight and pink rot. Dilute Confine™ at a 1.4:3 ratio with application water. Apply 2 litres of mixture as a spray to 1,000 kg of potatoes (ap 375 mL of Confine™ mixes with 1,625 mL of water to treat 1,000 kg of potatoes). Complete and even coverage is required to ensure product performance.

### **Best Management Practices**

Late blight and pink rot can be particularly virulent pathogens to manage, especially when environmental conditions favour disease. Confine™ fungicide is registered for disease suppression only and its use is not a substitute for Best Management Practices. Farmers should employ Best Management Practices throughout the growing season to reduce the likelihood of spreading disease.