Frequently Asked Questions

Performance

Why does a grower need Force® Evo corn insecticide?
Force Evo is a new liquid, soil-applied insecticide (SAI) under development for growers seeking control of corn rootworm (CRW) and other soil-dwelling insect pests in corn. Force Evo will provide the same superior control of CRW and other soil-dwelling pests as growers have come to expect from other Force brand formulations over the last 25 years. Growers have often indicated a need for a high-performing, liquid option that is fertilizer compatible, and Force Evo will meet that need as it will be the highest-performing liquid option available in the market, and will be an excellent choice in fields with high CRW pressure.

Formulation Testing and Handling

What types of testing were conducted to help ensure its chemical and physical stability?
The Application Technology Group at Syngenta evaluated key performance indicators including cold tolerance and crystallization risk, freeze-thaw performance, physical and chemical stability, ease of flow in cooler temperatures, quantification of residue buildup on equipment surfaces, equipment cleanout and fertilizer compatibility. The results indicate that the new Force Evo formulation will offer significant benefits compared to the Force CS formulation.

Is Force Evo compatible with starter fertilizers?
Force Evo was tested at 8 ounces per acre and 3 GPA with 37 common starter fertilizers. The results show that Force Evo was compatible with all of the starter fertilizers that were tested.

Do cold temperatures affect how Force Evo handles?
Force Evo has much improved cold tolerance compared to the CS formulation, and Syngenta testing shows it does not crystallize except under extremely cold conditions. In the rare cases that cold temperatures lead to crystallization, Syngenta testing shows it will be fully reversible upon warming to temperatures around 25°F. In addition, Force Evo is a low viscosity formulation, and exposure to cold should not adversely impact its flow performance.

How will Force Evo react if the boxes in the planter application equipment are left overnight or over an extended period of time due to a rain delay or other circumstances?
As indicated above, Force Evo has much improved cold tolerance compared to the CS formulation. However, it is always most desirable to completely empty boxes during the planting process before stopping for an extended period or overnight. When stopping for an extended period, it is best to detach any partial boxes and store them in a heated area overnight, especially if extremely cold temperatures are expected.
**Application Recommendations**

**What is the recommended application method for Force Evo?**

Force Evo is a liquid, soil insecticide that will be applied during the corn planting process. The recommended application method will be to apply through a drip tube without nozzles directly into the furrow after the furrow openers and before the press wheel.

**What package sizes will be available for the 2017 season?**

Force Evo will be available in the same 2.5 gallon bag-in-the-box packaging as the current Force CS formulation. It can be applied using the same application equipment as is currently used for the Force CS formulation, including John Deere Central Insecticide System (CIS) or an after-market option developed and provided by Raven Industries.

**Why is it suggested that using Force Evo will result in less probability of exposure to the product?**

Force Evo is packaged and applied through closed systems. Because of improvements in how the Force Evo formulation handles and flows compared to Force CS, it is expected that there will be significantly less need for unexpected equipment interventions, such as stoppages driven by crystallization, poor flowability in cold temperatures, or fertilizer incompatibility. The new Force Evo formulation allows the closed system to stay closed, and allows the grower to complete the planting process with fewer delays.

Even during routine operations like loading of the boxes into the planter, and equipment flushing and winterizing, it is expected that potential of exposure will be reduced because of a significant reduction of residues on equipment surfaces. Even so, growers should always use proper personal protective equipment (PPE) as indicated on the label when handling Force Evo.