

Cell Power® SLYCE® Ca8%

Questions and Answers

What is the primary purpose of Cell Power® SLYCE® Ca 8%? The Primary purpose of **SLYCE® Ca8%** is to provide a soluble source of calcium at low rates to improve water penetration issues.

What crops benefit the most from using this product? Numerous crops may benefit from applications of **SLYCE® Ca8%**. Any crop planted in soils with water infiltration issues will not only benefit from the improved water movement into the soil profile, but the soluble calcium which the crop may uptake and metabolize.

How should Cell Power® SLYCE® Ca 8% be applied (e.g., through irrigation, side-dressing)? **SLYCE® Ca8%** has very flexible application options. You may apply as a side-dress, at planting, band herbicide spray, and/or drip/micro-irrigation applications.

What is the recommended application rate per acre? The labeled rate is 1-5 gallons per acre. The rate will highly depend on the field specific conditions. In general, most growers will apply 1 gallon/acre, initial application and follow up with 1-2 quart/acre applications every 2-3 weeks, depending on the prevailing soil conditions.

Are there any specific soil conditions or pH levels that this product is particularly effective for? This product is highly recommended to be applied in alkaline irrigation water/soil and will improve soil conditions over time. The ph of the product is about 3.5-4.5 and has a very buffering capacity in high bicarbonate irrigation water.

Can Cell Power® SLYCE® Ca 8% be mixed with other fertilizers or chemicals? A jar test is recommended with most fertilizers. This product will blend with white, phosphoric acid, UAN-32, CAN-19, AN-20 and CN-9. Do not blend with 10-34-0 or Green Acid 0-52-0 as this may cause fall out.

What are the main ingredients in Cell Power® SLYCE® Ca 8% and how do they benefit the soil and plants? The main ingredients are Calcium Nitrate Ammonium double salt, a calcium compatible humic acid which is paired with a medium chain carbon source to make a complex with the calcium nitrate. This allows the calcium to be more active at lower rates.

Why can't I just mix CN9 or CAN17 with humic acid and make my own version of SLYCE® Ca8%? The two ingredients mentioned above are what allow this product to work in the way it does. Without those two ingredients, blended in their proper ratio, will not allow even CAN-17 to work without those two ingredients. Many have tried to formulate this same blend without any success.

Quality & Crop Safety is our #1 Goal

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How does this product improve water penetration and soil tilth? The medium chain carbon, complexed calcium is more active, per pound of calcium applied than your regular liquid calcium fertilizers. This material reduces the negative effects of sodium on water infiltration by replacing it on the CEC and allow better soil aggregates to form.

Are there any safety precautions or handling instructions to be aware of? This material is safe to handle, but read all instructions to ensure workers handle appropriately to avoid any type of injury.

What are the expected results or benefits after using this product? Improved water movement through the soil profile, increase calcium nutrition to the crop, as well as improved phosphate uptake by crops given the Slyce treatment.

How often should this product be applied during the growing season? As mentioned earlier, once crop water use begins to increase, apply 1 gallon/acre initial application then follow up with a 1-2 qt/acre application every 2-3 weeks, depending on field conditions.

Are there any compatibility issues with other soil amendments or treatments? Ensure there are no polyphosphates or any thiosulfates being injected or applied during Slyce applications.

What is the shelf life of Cell Power® SLYCE® Ca 8%? As with all fertilizers, Slyce lasts about 2 years in storage. Nonetheless, we have samples which has lasted much longer.

Are there any environmental considerations or impacts associated with using this product? None, the only real impact in improving water infiltration through the soil profile is increased drainage and movement of more crop harmful cations/anions, such as sodium and chloride, as well as any excess boron.

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