



SERPENTINE®

NITROGEN STABILIZER

ABOVE + BELOW GROUND PROTECTION ▼ NITROGEN STABILIZER

PROPRIETARY ACTIVATOR ▼ ADDITIVE PACKAGE ▼ PENETRANT TECHNOLOGY



ATTENTION



AVOID PRODUCT CONTACT WITH WATER

SERPENTINE® is a highly concentrated product that features multiple technologies for multi-purpose use and optimum penetration into urea granules and stabilization of UAN solutions. Because of its high concentration and range of active ingredients, solvents, scents, and additives involved, there are established use practices that may need to be different from other Nitrogen Stabilizer Technologies used in the past. Some of the “Best Practices” recommendations include:

AVOID PRODUCT CONTACT WITH WATER

- All moisture, including what might have been considered minor in the past is detrimental to the stability of **SERPENTINE®** formulation.
- While using **SERPENTINE®**, avoid rinsing measuring cups and other equipment that could bring **SERPENTINE®** in contact with water.

START AND FINISH WITH CLEAN EQUIPMENT

- Flushing out lines and rinsing equipment, like induction cones, the night before use allows sufficient time for the system to dry before introducing **SERPENTINE®** next morning.
- If possible, use a mildly alkaline solution instead of straight water when cleaning and rinsing instruments and equipment.
- If needed, Crop Excellence® will provide your location with a **SERPENTINE®** specific cleaning solution upon request.
- Avoid bringing in contact alkaline solutions with UAN or urea to the extent possible, as it can hasten volatilization of nitrogen from these fertilizer sources.

AVOID TEMPERATURE EXTREMES

- Warmer temperatures are fast approaching, and that factor can contribute to the volatilization of urea. If you can, treat your nitrogen with **SERPENTINE®** when cooler temperatures prevail to avoid compounding sources of volatility.

DISPENSE BULK PRODUCT FROM THE VALVE OF A MINIBULK

- When dispensing **SERPENTINE®** from a bulk package like a tote or minibulk, it is best to dispense it from the valve into another container from where you can meter it according to your rate of use.
- Avoid taking product from the top of minibulk, as inevitably this leads to unwanted introduction of contaminants into **SERPENTINE®**, including moisture, which can degrade the active ingredients and upset the stability of the formulation.

Please contact your Crop Excellence® representative to obtain a **SERPENTINE®** specific cleaning solution, or if you have any questions or need further details on the best ways to use **SERPENTINE®** in your nitrogen management program.

