

Protect Workers and the Environment

- Avoid releasing dust when opening seed containers and while filling, emptying and cleaning equipment.
- Avoid exposure of dust to nearby bee hives, or to nearby crops or weeds in the flowering stage.

Minimize Dust When Planting

- Follow planter manufacturers' recommendations for use of seed lubricant (talc or graphite) to minimize abrasion.
- Where possible, direct planter exhaust down toward the soil surface.

Follow Seed Label Planting Instructions

- Follow recommended seeding rates.
- Plant seed one inch or deeper according to seed label instructions.
- Cover and collect spilled seed as soon as possible to avoid exposure to wildlife.

Dispose of Excess Seed Properly

- Small amounts of leftover treated seed may be double sown within a portion of the field at an agronomically acceptable seeding rate.
- Store in original containers if needed for future use.
- Depending on facility policy, take to:
 - Power plant or cement kiln for use as a fuel source; or
 - Incinerator, waste management facility or landfill.
- Keep out of food and feed channels.
- Only take to a specifically authorized ethanol production facility where by-products are not used for livestock feed.

Clean and Maintain Equipment

- Minimize rinse water – do not discharge to ground water, surface water or septic tanks.
- Be aware of potential cross-contamination when using equipment to plant treated seed and harvested grain, non-treated seed or seed with different active ingredients.

www.seed-treatment-guide.com



DISCLAIMER

The Seed Treatment Stewardship Guide is intended solely as an educational tool and as general guidance to assist product users in voluntarily developing and implementing stewardship practices related to the use of seed treatments and treated seed. This Guide is intended to serve as a reference document only. Entities may choose to refer to the entire Guide or specific sections of the Guide as appropriate. The guidance is intended to be flexible, and its application will differ according to the products involved and size, nature and complexity of the organization using the guidance. The Guide is representative and not exhaustive.

It is the responsibility of any user of this document to consider that user's specific circumstances in 1) developing a stewardship plan specific to its business; and 2) meeting any applicable legal and regulatory requirements. This Guide is not intended as, and should not be construed as, legal advice or a substitute for a user's own individual understanding of applicable legal requirements. Regulatory requirements may be issued or revised by government agencies after the publication date of this Guide. Users are advised to consult with their legal counsel and/or contact the appropriate regulatory agency or agencies to ensure compliance with applicable requirements.

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Seed Treatment MATTERS



What factors affect the quality of seed treatments?

What procedures should I follow to safely apply seed treatments?

Am I following federal seed tag labeling regulations?

What stewardship practices should my customers follow?



The Guide to
Seed Treatment
Stewardship



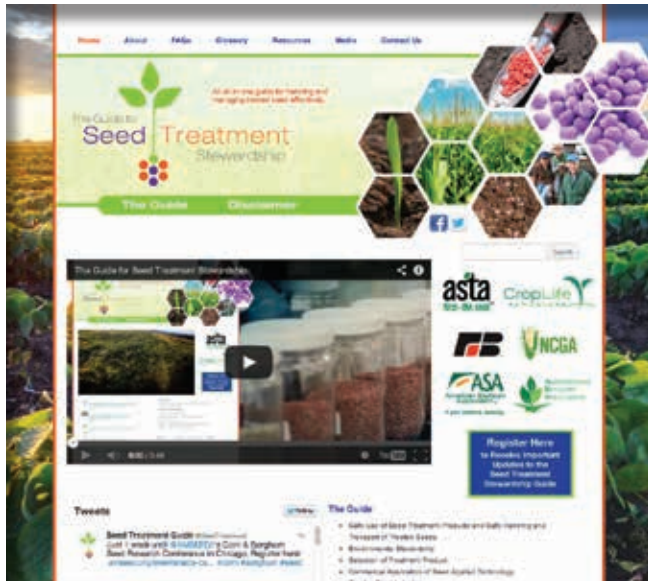
**Key Stewardship
Principles for Seed
Treatment Application**

“The Guide to Seed Treatment Stewardship” is the product of industry-wide collaboration between seed companies, seed treatment providers and universities – and it draws from data collected worldwide. Its purpose is to provide farmers and seed companies with critical information and up-to date guidelines for managing treated seed effectively to minimize the risk of exposure to non-target organisms, pollinators, water supplies and animals.

www.seed-treatment-guide.com

Accessible via computer or smartphone, this site features both an online interactive Guide and a downloadable version. Also included on the site are:

- Seed Treatment Acronyms and a Glossary
- Answers to Frequently Asked Questions
- An exhaustive List of Resources with links to state government and regulatory offices, state and national agriculture associations and many other educational sources.



“The Guide serves as an all-in-one resource that addresses every stage of a seed’s journey from treatment to planting – it’s easy to understand and easy for farmers to refer to for answers to specific questions.”

Andrew W. LaVigne, American Seed Trade Association



Key Stewardship Principles for Seed Treatment Application

**Start with good quality seed without defects.
Minimal dust promotes better adhesion.**

Other Factors that Affect Seed Treatment Quality

- Treating Mixture
- Application rate to seed
- Process conditions
- Treatment procedures
- Application equipment

Establish Application Process

- Follow label and Material Data Safety Sheets directions for all components of the treating mixtures.
- Use documented training procedures.
- Use documented slurry preparation procedures.
- Use documented procedures for handling, control and proper disposal of leftover slurry components, wastes and treated seed.

Establish Quality Control Systems

- Control points
- Monitoring processes
- Verification procedures
- Corrective measures
- Record keeping and documentation procedures

Treated Seed Labeling

- State “Not to be used for food, feed and oil” and the identity of active ingredients on the seed tag.
- Include EPA-approved seed tag requirements.
- Use EPA-approved dye or colorant.

Key Stewardship Principles for Farmers

Carefully read all instructions on the Seed Tag and Label

Store Treated Seed Appropriately

- Maintain a well-lit and ventilated facility. Check local and/or state regulations for storage requirements.
- Keep seeds dry and away from children, animals, food and feed.
- Use high-quality seed, free from excessive dust, with appropriate coating systems that minimize abrasion of agrichemical coating.
- Properly dispose of containers and/or seed packages that contained treated seed.

Prepare Equipment Before Planting

- Calibrate planting equipment to recommended seeding rates and depths.
- Fill planter away from areas where bees may be present, noting wind speed and direction.