

GrainStar™

PLANT GROWTH REGULATOR

TECHNICAL INFORMATION BULLETIN

OVERVIEW

GrainStar™ Plant Growth Regulator contains the active ingredient S-abscisic acid. S-ABA is a naturally occurring plant hormone. S-ABA increases mobilization of carbohydrates and primes plants for increased tolerance to heat stress. Use of GrainStar is intended to drive grain fill for improved yields and mitigate in-season drought conditions on plant performance.

MODE OF ACTION

S-ABA enhances mobilization of carbohydrates from the flag leaf and stem to the developing grains. S-ABA also supports translocation of carbohydrates to drive increased grain fill and weight. Additionally, during periods of drought stress, S-ABA acts as a stress primer, inducing physiological responses in the plant that mitigate future stress events.

BENEFITS OF GRAINSTAR

GrainStar is intended to drive several physiological changes to wheat, barley, corn, soybean, and rice plants for higher yields.

- Drive carbohydrate storage to the grain
- Increase grain fill and weight
- Prime plants for increased tolerance to drought and heat stress

HOW TO USE GRAINSTAR

Formulation	GrainStar is a water soluble granule containing 8.6 grams of S-ABA per 100 grams of product.			
Adjuvant	Non-ionic surfactants (NIS) are recommended for use with GrainStar			
Crop	Wheat, Barley	Corn	Soybeans	Rice
Rate	1.0 oz/acre	0.7 oz/acre	1.0 oz/acre	0.7 oz/acre
Target Timing	Flag leaf – early grain fill	Late vegetative	R3	Late boot to early heading

GRAINSTAR APPLICATION NOTES

- Use enough water volume to support adequate spray coverage of plants. For ground applications use a minimum of 10 gallons per acre. For aerial applications use a minimum of 2 gallons per acre.
- Apply GrainStar in the morning or evening when conditions are best for slow drying (cooler temperatures and higher humidity), to ensure adequate absorption of the product.
- Do not apply GrainStar to stressed or injured plants.
- Where recommended, use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer.
- Do not overhead irrigate treated plants for at least 6 hours following application of GrainStar.
- Do not apply GrainStar if rain is expected within 6 hours of application.



GrainStar is not available for use in California. Always read and follow label instructions. For the full product warranty, terms and conditions, please visit www.warrantydetails.net, or contact us at 1-877-696-4204.

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