



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511M)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

73049-535

Date of Issuance:

7/24/2025

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Grainstar Plant Growth Regulator
Soluable Granule

Name and Address of Registrant (include ZIP Code):

Valent BioSciences LLC
1910 Innovation Way, Suite 100
Libertyville, IL 60048

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency. In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Gina Burnett, Senior Regulatory Advisor
Biochemical Pesticide Branch
Biopesticides and Pollution Prevention Division (7511M)
Office of Pesticide Programs

Date:

7/24/2025

2. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to EPA.
3. Make the following labeling change before you release this product for shipment:
 - Revise EPA Registration Number to read, "EPA Reg. No. 73049-535."
4. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 02/01/2024

If you have any questions, please contact Cecilia Kujawa via email at kujawa.cecilia@epa.gov.

Sincerely,

Gina Burnett, Senior Regulatory Advisor
Biochemical Pesticide Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

[Text in brackets [] indicates optional language or language intended for explanatory purposes to facilitate label review. Thus, this language will often not appear on final printed labeling. Also, this page is present (page 1) to delineate sublabels and will not appear on the final printed labeling.]

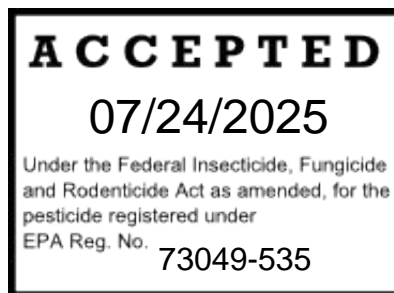
**GRAINSTAR™
PLANT GROWTH REGULATOR
SOLUBLE GRANULE**

Alternate Brand Name: VBC-30507G

MASTER LABEL

Sublabel I: For use on wheat, barley, rice, corn, and soybean

Sublabel II: For use on sugarcane, sugarbeet, and potato



Active Ingredient

| | |
|------------------------|------------|
| S-Abscisic Acid | 8.6% w/w |
| Other Ingredients..... | 91.4% w/w |
| Total..... | 100.0% w/w |

TOPGRAIN Plant Growth Regulator Soluble Granule contains a total of 8.6 g of S-Abscisic acid (S-ABA) in 100 g of product. S-Abscisic acid, commonly known as S-ABA, is a growth regulator found in all plants.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

EPA Registration No.
EPA Establishment No.

Registrant: Valent BioSciences LLC
1910 Innovation Way, Suite 100
Libertyville, IL 60048
1-847-968-4700

Net Weight:

This container will treat XX acres when applied at the maximum label rate.

GRAINSTAR™
PLANT GROWTH REGULATOR
SOLUBLE GRANULE

FOR USE ON WHEAT, BARLEY, CORN, RICE, SOYBEAN
[SUB-LABEL I]

| | |
|------------------------|------------|
| Active Ingredient | |
| S-Abscisic Acid | 8.6% w/w |
| Other Ingredients..... | 91.4% w/w |
| Total..... | 100.0% w/w |

TOPGRAIN Plant Growth Regulator Soluble Granule contains a total of 8.6 g of S-Abscisic acid (S-ABA) in 100 g of product. S-Abscisic acid, commonly known as S-ABA, is a growth regulator found in all plants.

KEEP OUT OF REACH OF CHILDREN
DANGER

| FIRST AID | |
|--|---|
| If in eyes | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700. | |

This label must be in the possession of the user at the time of pesticide application.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical Resistant Gloves
- Shoes plus socks.
- Protective eyewear

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash-water or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the terms of the Label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants (or Coveralls).
- Chemical resistant gloves (made of any waterproof material).
- Shoes plus socks.
- Protective eyewear.

GENERAL DIRECTIONS FOR USE

- Use only as directed. Read the label thoroughly and make sure it is understood before making applications.
- Undesired effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying GRAINSTAR Plant Growth Regulator Soluble Granule.
- To prepare the treatment solution, add the required amount of GRAINSTAR to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix thoroughly with agitation and bypass circulation to completely dissolve the GRAINSTAR, and then add surfactant. Discard any unused treatment solution at the end of each day following local, state or federal law.
- Where recommended, use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer.
- During mixing and application, foaming of the spray solution may occur. Foaming may be minimized by using only moderate agitation. To prevent or minimize foam, avoid the use

of mechanical agitators, terminate by-pass, and return lines at the bottom of the tank. The use an approved anti-foam or defoaming agent may be used to reduce foaming.

- Do not apply GRAINSTAR to plants or fruit under stress (e.g., heat, water, disease, insect and nutrient). Injured or stressed plants or fruit will show a reduced response to GRAINSTAR.
- 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.
- A PHI is not required.

COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for GRAINSTAR Plant Growth Regulator Soluble Granule (here after known as GRAINSTAR) with other agricultural products is not available.

Do not tank mix GRAINSTAR with compounds containing copper or iron ions. Do not tank mix GRAINSTAR with any product unless compatibility has been verified. If considering tank mixing GRAINSTAR with other products use the following **compatibility jar test** before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness.

Always read and follow all label directions and precautions of each product. When using combinations of products, the most restrictive label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your Valent Agricultural Specialist (1-800-6 VALENT).

CROPS, APPLICATIONS, RATES, AND TIMINGS:

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|---|---|---|
| Wheat [Not for use in California] | Application of GRAINSTAR on wheat results in improved grain fill and increased yield. | Make a single application of GRAINSTAR from flag leaf emergence until just prior to anthesis or after anthesis until the mid-grain fill stage. Do not apply GRAINSTAR during anthesis. |

| | | |
|---|--|---|
| | Application of GRAINSTAR on wheat results in improved abiotic stress tolerance, such as drought. | Make a single application of GRAINSTAR from tillering stage to the early-grain fill stage. Do not apply GRAINSTAR during anthesis. |
| <p>Apply 0.3 to 1.0 ounce (9.2 to 27.6 grams) of GRAINSTAR (0.8 to 2.4 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage.</p> <p>Do not apply GRAINSTAR to stressed plants.</p> <p>Do not apply more than two applications of GRAINSTAR per season. Spray intervals should be at least 3 weeks apart.</p> | | |

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|---|---|---|
| Barley [Not for use in California] | Application of GRAINSTAR on barley results in improved grain fill and increased yield. | Make a single application of GRAINSTAR from flag leaf emergence until just prior to anthesis or after anthesis until the mid-grain fill stage. Do not apply GRAINSTAR during anthesis. |
| | Application of GRAINSTAR on barley results in improved abiotic stress tolerance, such as drought. | Make a single application of GRAINSTAR from tillering stage to the early-grain fill stage. Do not apply GRAINSTAR during anthesis. |
| <p>Apply 0.3 to 1.0 ounce (9.2 to 27.6 grams) of GRAINSTAR (0.8 to 2.4 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage.</p> <p>Do not apply GRAINSTAR to stressed plants.</p> <p>Do not apply more than two applications of GRAINSTAR per season. Spray intervals should be at least 3 weeks apart.</p> | | |

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|------|---------------------|--------------------------|
|------|---------------------|--------------------------|

| | | |
|---|---|--|
| Field Corn [Not for use in California] | Application of GRAINSTAR on corn results in improved grain fill and increased yield. | Make a single application of GRAINSTAR from R2 up to the end of R3 stage. |
| | Application of GRAINSTAR on field corn results in improved abiotic stress tolerance, such as drought. | Make a single application of GRAINSTAR from V3 prior to VT stage of growth. Do not apply GRAINSTAR during anthesis. |
| <p>Apply 0.3 to 1.0 ounce (9.2 to 27.6 grams) of GRAINSTAR (0.8 to 2.4 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage.</p> <p>Do not apply GRAINSTAR to stressed plants.</p> <p>Do not apply more than two applications of GRAINSTAR per season. Spray intervals should be at least 3 weeks apart.</p> | | |

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|--|---|---|
| Rice [Not for use in California] | Application of GRAINSTAR on rice increases carbohydrate flow to the inferior spikelets of the rice panicle, resulting in improved grain fill. | <p>Apply GRAINSTAR from flag leaf emergence until just prior to anthesis or after anthesis until the mid-grain fill stage. Do not apply GRAINSTAR during anthesis.</p> <p>Multiple applications are expected to improve grain fill in varieties and under growing conditions for which there is an extended period of grain fill. Subsequent applications should be made at 5 to 10-day intervals depending on the length of the flowering period.</p> |
| | Application of GRAINSTAR on rice results in improved abiotic stress tolerance, such as drought. | Make a single application of GRAINSTAR during tillering. |
| <p>Apply 0.3 to 1.0 ounce (9.2 to 27.6 grams) of GRAINSTAR (0.8 to 2.4 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage.</p> <p>Do not apply GRAINSTAR to stressed plants.</p> | | |

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|---|--|---|
| Soybean [Not for use in California] | Application of GRAINSTAR on soybeans results in improved grain fill and increased yield. | Apply a single application of GRAINSTAR at R1 until the R6 growth stage. |
| | Application of GRAINSTAR on soybean results in improved abiotic stress tolerance, such as drought. | Make a single application of GRAINSTAR from V3 up to the R1 stage of growth. Do not apply GRAINSTAR during anthesis. |
| <p>Apply 0.3 to 1.0 ounce (9.2 to 27.6 grams) of GRAINSTAR (0.8 to 2.4 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage.</p> <p>Do not apply GRAINSTAR to stressed plants.</p> <p>Do not apply more than two applications of GRAINSTAR per season. Spray intervals should be at least 3 weeks apart.</p> | | |

Additional Notes:

- 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.
- For foliar applications, use sufficient spray volume to ensure complete coverage of plants. 15 to 25 gallons per acre spray volume has been shown to be effective.
- Use of a non-ionic surfactant at the final surfactant concentration directed by the surfactant manufacturer to improved wetting and coverage of plant.
- Ensure pH of the spray solution is not more than 6.0.

| Ounces of GRAINSTAR | Grams of GRAINSTAR | Grams of S-ABA | ppm concentration of S-ABA (at 20 gal/A spray volume) |
|---------------------|--------------------|----------------|---|
| 0.3 | 9.2 | 0.8 | 11 |
| 1.0 | 27.6 | 2.4 | 32 |
| 1.6 | 45.4 | 4.3 | 57 |
| 2.0 | 56.7 | 5.0 | 66 |

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage

Keep container tightly closed when not in use. Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F). Avoid exposure of product to light.

Pesticide Disposal

To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

Warranty and Disclaimer Statement:

To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

**GRAINSTAR™
PLANT GROWTH REGULATOR
SOLUBLE GRANULE**

Alternate Brand Name: VBC-30507G

**FOR USE ON SUGARCANE, SUGARBEET, POTATO
[SUB-LABEL II]**

| | |
|------------------------|------------|
| Active Ingredient | |
| S-Absciscic Acid | 8.6% w/w |
| Other Ingredients..... | 91.4% w/w |
| Total..... | 100.0% w/w |

GRAINSTAR Plant Growth Regulator Soluble Granule contains a total of 8.6 g of S-Absciscic acid (S-ABA) in 100 g of product. S-Absciscic acid, commonly known as S-ABA, is a growth regulator found in all plants.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

| FIRST AID | |
|--|---|
| If in eyes | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice. |
| HOT LINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call toll-free 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-847-968-4700. | |

This label must be in the possession of the user at the time of pesticide application.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical Resistant Gloves
- Shoes plus socks.
- Protective eyewear

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment wash-water or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with the terms of the Label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the state or tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Long-sleeved shirt and long pants (or Coveralls).
- Chemical resistant gloves (made of any waterproof material).
- Shoes plus socks.
- Protective eyewear.

GENERAL DIRECTIONS FOR USE

- Use only as directed. Read the label thoroughly and make sure it is understood before making applications.
- Undesired effects can result from any deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, when applying GRAINSTAR Plant Growth Regulator Soluble Granule.
- To prepare the treatment solution, add the required amount of GRAINSTAR to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix thoroughly with agitation and bypass circulation to completely dissolve the GRAINSTAR, and then add surfactant. Discard any unused treatment solution at the end of each day following local, state or federal law.
- Where recommended, use a non-ionic surfactant at the final adjuvant concentration directed by the adjuvant manufacturer.
- Do not apply GRAINSTAR to plants or fruit under stress (e.g., heat, water, disease, insect and nutrient). Injured or stressed plants or fruit will show a reduced response to GRAINSTAR.

- During mixing and application, foaming of the spray solution may occur. Foaming may be minimized by using only moderate agitation. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass, and return lines at the bottom of the tank. The use of an approved anti-foam or defoaming agent may be used to reduce foaming.
- 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.

COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for GRAINSTAR Plant Growth Regulator Soluble Granule (here after known as GRAINSTAR) with other agricultural products is not available.

Do not tank mix GRAINSTAR with compounds containing copper or iron ions. Do not tank mix GRAINSTAR with any product unless compatibility has been verified. If considering tank mixing GRAINSTAR with other products use the following **compatibility jar test** before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness.

Always read and follow all label directions and precautions of each product. When using combinations of products, the most restrictive label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your Valent Agricultural Specialist (1-800-6 VALENT).

CROPS, APPLICATIONS, RATES, AND TIMINGS:

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|--|---|---|
| Sugarcane [Not for use in California] | Application of GRAINSTAR on sugarcane results in increased sugar yield. | Apply GRAINSTAR 8-2 weeks before harvest. Apply 0.3 to 1.6 ounce (9.2 to 45.4 grams) of GRAINSTAR (0.8 to 4.3 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage. |

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|---|---|--|
| Sugarbeet [Not for use in California] | Application of GRAINSTAR on sugarbeet results in increased yield. | <p>Apply GRAINSTAR from the 6-leaf stage of growth through 4-weeks before harvest.</p> <p>Apply 0.3 to 2.0 ounce (9.2 to 56.7 grams) of GRAINSTAR (0.8 to 5.0 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage.</p> <p>Up to five (5) applications of GRAINSTAR can be made. Multiple applications are expected to improve yield in varieties and under growing conditions for which there is an extended beet formation. Subsequent applications should be made at 10 to 14-day intervals.</p> |

| CROP | OBJECTIVE / BENEFIT | APPLICATION INSTRUCTIONS |
|--|--|---|
| Potato [Not for use in California] | Application of GRAINSTAR on potato results in increased yield. | <p>Apply ProTone SG from tuber set/initiation (Growth Stage 3) through tuber bulking (Growth Stage 4).</p> <p>Apply 0.3 to 2.0 ounce (9.2 to 56.7 grams) of GRAINSTAR (0.8 to 5.0 grams of S-ABA) per acre as a spray solution in a sufficient volume to achieve uniform coverage.</p> <p>Up to three (3) applications of GRAINSTAR can be made. Multiple applications are expected to improve yield in varieties and under growing conditions for which there is an extended tuber formation. Subsequent applications should be made at 10 to 14-day intervals</p> |

Additional Notes:

- 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.
- For foliar applications, use sufficient spray volume to ensure complete coverage of plants. 15 to 25 gallons per acre spray volume has been shown to be effective.

- Use of a non-ionic surfactant at the final surfactant concentration directed by the surfactant manufacturer to improved wetting and coverage of plant.
- Ensure pH of the spray solution is not more than 6.0.

CONVERSION TABLE

| Ounces of GRAINSTAR | Grams of GRAINSTAR | Grams of S-ABA | ppm concentration of S-ABA (at 20 gal/A spray volume) |
|------------------------|-----------------------|----------------|---|
| 0.3 | 9.2 | 0.8 | 11 |
| 1.0 | 27.6 | 2.4 | 32 |
| 1.6 | 45.4 | 4.3 | 57 |
| 2.0 | 56.7 | 5.0 | 66 |

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage

Keep container tightly closed when not in use. Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F). Avoid exposure of product to light.

Pesticide Disposal

To avoid waste, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Handling

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

Warranty and Disclaimer Statement:

To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the

label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.