FOR USE AS A SEED TREATMENT

Active Ingredient:
S-Abscisic Acid .................. 25.0% w/v
Other Ingredients ............... 75.0% w/v
Total .............................. 100.0% w/v

Contains a total of 25 g of S-Abscisic Acid (S-ABA) in 100 ml of product. Application of BioNik (S-ABA) to seeds shifts the seedling emergence.

KEEP OUT OF REACH OF CHILDREN

CAUTION

List No. 30235-04-01

04-7968/R3

Lot No.

870 Technology Way
Libertyville, IL 60048
1-847-968-4700

List No. 30235-04-01
04-7968/R3

Net Contents: 1 QUART (946 mL)
FIRST AID

If in Eyes: • Hold eye open and rinse slowly and gently with water for 15-20 minutes.
• Remove contact lenses, if present, after the first 5 minutes, and continue rinsing eye.
• Call a poison control center or doctor for treatment advice.

If on Skin: • 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 washwater or drain.

User Safety Recommendations
Users should:
• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
• 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.

PRECAUTIONARY STATEMENTS

Hazard 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.

Do not use treated seed for animal or human consumption. Do not allow treated seed to contaminate grain or other seed intended for animal or human consumption.

Personal Protective Equipment (PPE)
Applicants and other handlers must wear:
• Long-sleeved shirt and long pants.
• Shoes plus socks.
• Protective eyewear.

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

GENERAL DIRECTIONS
Use only for treating seed. Use only as directed. Read the label thoroughly and make sure it is understood before making applications. Bulk™ delays seeding emergence of parent seed.

Application Instructions:
• BioNik™ contains the active ingredient S-Abscisic Acid, commonly known as S-ABA. S-ABA is a potent Plant Growth Regulator found in plants.

• Undesired effects can result from any deviations from the label directions for applying BioNik™.

• Thoroughly mix BioNik™ by shaking or agitation before use.

• Apply BioNik™ to parent seed using commercial seed treatment equipment at a seed treatment facility. For use on agricultural establishments in hopper-box, planter-box, slurry-box or other seed treatment applications at or immediately before planting.

COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for BioNik™ with other agricultural products is not available. Although BioNik™ is generally compatible with many other seed treatment formulations, if BioNik™ is to be mixed with other seed treatment products, first test on a small scale.

Use caution in mixing with other products as incompatibility may occur. Incompatibility is indicated by an inhomogeneous seed treatment mixture, an uneven seed coating, or poor adherence of the seed coating to the seed.

APPLICATION RATES, AND TIMINGS

GERMINATION DELAY FOR HYBRID SEED PRODUCTION

The extent of delay resulting from BioNik™ is dependent on the inbred or hybrid genetics. Conduct small scale evaluations of each inbred or hybrid to determine the dose required for the desired delay.

CROP Seeds for production of hybrid seeds Delaying the seeding emergence and flowering timeline of male parent seed; for delayed emergence and flowering of male parent seed used in production of hybrid seed

APPLICATION INSTRUCTIONS

Apply BioNik™ directly to male parent seed for delayed germination or synchronization of flowering of parent seed used in production of hybrid seed.

Make one application to the seeds being treated (using commercial seed treatment equipment).
Delay of male corn parents for seed production

<table>
<thead>
<tr>
<th>CROP</th>
<th>Delay of Anthesis</th>
<th>Active Ingredient (milligrams/1 lb) per kilogram</th>
<th>BioNik™ (grams product) per 100 pounds seed ( captivity example using 1800 seeds/lb for inbred)</th>
<th>BioNik™ (fluid ounces product) per 100 pounds seed ( captivity example using 1800 seeds/lb for inbred)</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn</td>
<td>50 GDD</td>
<td>0.005 – 0.300 milligrams</td>
<td>3.6 – 216 grams</td>
<td>0.12 – 7.30 fluid ounces</td>
<td>Note on units: 0.1 milligram (mp) a/kilogram = 100 micrograms (µg) a/kilogram. Application rate depends on genetic background. BioNik™ rate per 100 pounds seed should be adjusted by seed number per lb for each inbred.</td>
</tr>
<tr>
<td>Corn</td>
<td>100 GDD</td>
<td>0.020 – 0.600 milligrams</td>
<td>14.4 – 432 grams</td>
<td>0.49 – 14.61 fluid ounces</td>
<td>Significant stand loss may occur and % loss depends on genetic background</td>
</tr>
<tr>
<td>Corn</td>
<td>150 GDD</td>
<td>0.050 – 0.900 milligrams</td>
<td>36 – 432 grams</td>
<td>1.22 – 14.61 fluid ounces</td>
<td></td>
</tr>
<tr>
<td>GDD  = Growing Degree Years</td>
<td></td>
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</table>

**FACTORS AFFECTING RESPONSE TO BioNik™**

S-ABA, the active ingredient in BioNik™, is a potent Plant Growth Regulator found in plants. S-ABA significantly delays emergence when applied to seeds. In addition to proper application technique, environmental and cultural factors will affect a seed or seedling's response to treatment with BioNik™. Do not use this product on old, weak, or damaged seed. Excessive stand loss could result from such use.

Different varieties or cultivars within a given plant species may require a higher or lower rate of BioNik™ to achieve the desired effect.

Determining Optimal Rates: Optimal BioNik™ rates will vary according to the desired emergence and flowering delay. Different varieties or cultivars of the same species may respond differently to BioNik™. Therefore, to determine response levels treat or test a small number of seeds before applying BioNik™ to a large number of seeds. Do NOT exceed the maximum stated rate.

**Environmental Factors:**

Heavy irrigation/irrigation immediately after planting may reduce efficacy. Planting in a dry seedbed may extend germination delay. Therefore, plant in moist seed bed.

Low or high soil temperatures may impact the period of germination delay.

**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 place. Avoid extended storage conditions at temperatures above 90°F (32°C). Avoid exposure of product to light or sun. Keep container tightly closed when not in use.

**Pesticide Disposal:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, follow 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 as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after flow begins to stop. Fill container 1/4 full with water and recirculate. Shake for 10 seconds. Pour rinseout into application equipment or a mix tank or store rinseout for later use or disposal. Drain for 10 seconds after the flow begins to stop. Repeat this procedure two more times. Then offer for recycling if available or purchase and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

**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.

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**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Net Contents: 1 QUART (946 mL)

**EPA Reg. No.** 73099-474

**EPA Est. No.** 35762-JA-001

**Pesticide Use Statement: Storage & Disposal and Statements and Directions for Use:**

**S-ABAlic Acid**

25.0% w/v

**Other Ingredients:**

75.0% w/v

**Total:**

100.0% w/v

Contains a total of 25 g of S-Abacid Acid (S-ABA) in 100 ml of product. Application of BioNik™ (S-ABA) to parent seeds delays seedling emergence. See succeeding page for first Aid. Precautionary Statements, Storage & Disposal Statements and Directions for Use.