



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 10, 2021

Katie Woodall
Agent
Arkion Life Sciences, LLC
c/o
Wagner Regulatory Associates, Inc.
P.O. Box 640
Hockessin, DE 19707

Subject: Notification per PRN 98-10 – Adding additional marketing graphics/language and a referral statement
Product Name: AV-5055
EPA Registration Number: 69969-7
Application Date: 17 September 2021
Decision Number: 579201

Dear Mrs. Woodall:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list 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 the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact please contact Andrés Garzón at (202) 566-2690 or by email at GarzonMoreno.Andres@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gene Benbow".

Gene Benbow, Product Manager 7
Invertebrate & Vertebrate Branch 3
Registration Division (7505P)
Office of Pesticide Programs

{Note to reviewer: [Text] in brackets denotes optional or explanatory language}
{Note to reviewer: {Text} in braces denotes where in the final label text will appear}

{Language Common to All Sublabels}

{FRONT PANEL}

AV-5055

[Alternate Brand Names: **Flight Control® Max** and
AV-1011® Liquid Rice Seed Treatment]

ACTIVE INGREDIENT:

9,10 anthraquinone*..... 18.6%

OTHER INGREDIENTS:..... 81.4%

TOTAL:.....100.0%

*Contains 2.06 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

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.
If Inhaled:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a Poison Control Center or Doctor for further treatment advice.
If on Skin or Clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or Doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> Call Poison Control Center or Doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: 800-535-5053 . HAVE THE PRODUCT CONTAINER OR LABEL AVAILABLE WHEN SEEKING TREATMENT ADVICE.	

{Optional referral statements when booklets and container labels are used:}
[See [side/back panel] [label booklet] for [complete] [additional] [First Aid], [Precautionary Statements], [Directions For Use], and [Storage and Disposal].]
[Refer to the complete package [insert] [foldout] for the Directions For Use.]

Formatted: Highlight

Formatted: Highlight

MANUFACTURED IN THE USA* FOR ARKION LIFE SCIENCES, LLC

551 Mews Drive Suite J New Castle DE 19720
Toll Free Phone Number:

{Flight Control® Max} [877-554-3373] {or} {AV-1011® Liquid Rice Seed Treatment} [800-468-6324]

*with foreign and domestic sourced materials.

[Arkion Resource code: _____] {for product size}

EPA Reg. No. 69969-7

EPA Est. No. _____

NET CONTENTS: 1 quart, 1 gallon, 2.5 gallons, 250 gallon tote, and 275 gallon totes
[Arkion LOT NO. _____]

NOTIFICATION

69969-7

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

11/10/2021

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if swallowed. Harmful if inhaled or absorbed through the skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, and shoes. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

When handling AV-5055 wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils). Wear protective goggles and a NIOSH-approved respirator with an organic vapor (OV) cartridge with a combination N, R or P filter, with NIOSH approval number prefix TC – 84A; or NIOSH approved gas mask with an organic vapor canister with NIOSH approval number prefix TC – 14G; or a NIOSH approved powered air purifying respirator with organic vapor (OV) cartridge and combination HE filter, with NIOSH approval prefix TC – 23C.

USER SAFETY RECOMMENDATIONS

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this product only as specified on this label.

CONDITIONS OF SALE AND WARRANTY: Arkion Life Sciences, LLC, warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Since timing, method of application, weather and ground conditions, mixture with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions, or under conditions which are abnormal or not reasonably foreseeable.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARKION LIFE SCIENCES, LLC MAKES NO OTHER WARRANTIES EITHER EXPRESS OR IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.

Handling, storage and use of the product by Buyer or User are beyond the control of Arkion Life Sciences, LLC and Seller. Risks such as ineffectiveness or use of other directions will be assumed by the Buyer or User.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO CASE WILL ARKION LIFE SCIENCES, LLC OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT, NOR HELD RESPONSIBLE FOR INJURY OR LOSS AS A RESULT OF THE HANDLING OR USE OF THIS PRODUCT.

STORAGE AND DISPOSAL

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

Storage: Store in a sheltered location away from food or feed. Do not allow containers to freeze. After prolonged storage, product may separate. If this occurs, resuspend with agitation.

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If container is leaking or if material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides below. Absorb spilled

material with absorbing type compounds and dispose of as directed for pesticides above. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact Infotrac for decontamination procedures or any other assistance that may be necessary. Infotrac's Telephone No. is 1-800-535-5053.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. ARKION LIFE SCIENCES, LLC also can be contacted for guidance on the disposal of pesticide wastes.

Container Handling:

{Note to PM: Only one of the following two container handling instruction statements will be used based on the actual size of the product package.}

[For 1-quart, 1 gallon, or 2.5 gallons:]

Nonrefillable container (equal to or less than 5 gallons): Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 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. Then offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

[OR]

[For 250 or 275 gallon totes:]

Nonrefillable container (greater than 5 gallons): Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Triple rinse or pressure 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

Contain and collect spilled product immediately.

[Notice: Read the entire label before using. Use only according to label directions.]

[Before buying or using the product read "Conditions of Sale and Warranty" on label.]

{Sub-label 1: Language specific for geese repellent use}

[FOR GEESE REPELLENCY]

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

USE SITES:

- Repels geese from terrestrial areas at or near airports.
- Repels geese from grassy areas at commercial sites, industrial office sites, municipal sites or in developed urban areas.
- Repels geese from golf courses.
- Repels geese in turf areas, including sports fields, park grounds, home lawns and cemeteries.
- Repels geese from landfills and dumpsites.

To prevent contamination of the dilute solution of AV-5055 by other chemical residues, be sure that the equipment is thoroughly clean before use or use dedicated equipment.

Apply this product using properly calibrated and maintained spray equipment. For best results, product must thoroughly dry on turf grass surface. Mowing treated areas will remove product and reduce product effectiveness. Product may separate if allowed to sit. Resuspend with agitation. Keep from freezing.

USE RESTRICTIONS:

- This product may be used to repel geese, including Canada geese.
- Do not apply when surface to be treated is wet or when rain is expected.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Do not allow people or pets to enter treated area until product has dried.
- Do not apply to sidewalks, parking lots, patios, etc.
- Do not apply using a backpack sprayer in the State of California.

MIXING DIRECTIONS:

Thoroughly shake or stir AV-5055 prior to diluting with water.

APPLICATION DIRECTIONS:

When geese have begun to flock in one area and are problematic (i.e., where droppings are found), apply AV-5055 according to the following rates to the grassy, turf, or forage areas where geese are expected to feed/roost. Goose droppings define the extent and scale of the problem.

Grassy or Turf Areas, Landfills, Dumpsites:

{Note to PM: Only one of the following two application instruction statements will be used based on the actual size of the product package.}

[For 1-qt size:]

For each application, apply ½ quart of product with 1.5 to 5 gallons of water per ¼ acre.

[OR]

[For 1 gallon, 2.5 gallons, or 250 gallons size:]

For each application, apply ½ gallon of product with 6 to 20 gallons of water per acre.

- Subsequent applications may be made at 14 – 21 day intervals or as required by geese activity and anticipated seasonal migrations. Do not apply more than 7 times per year to the same area.
- Mix with water based on spray equipment specifications and recommendations.
- Apply using a fine spray pattern to evenly distribute over entire surface to be treated.
- Allow material to dry before permitting human or animal activity in the treated area.
- When applying to turf, cutting of the lawn will reduce amount of repellent available.

[Flight Control®, Stop the Drop®, and Arkion® are registered trademarks of Arkion® Life Sciences, LLC.]

{APPENDIX SUB-LABEL 1}

{MARKETING CLAIMS

Advertising claims and marketing phrases that may be presented on promotional materials and the container labels.}

- Background picture for front panel:



- Logo:



Formatted: Highlight

Formatted: Highlight

- [THE REPELLENT SOLUTION FOR MOVING UNWANTED GEESE]

- [LIQUID GOOSE REPELLENT FOR TURF]

Formatted: Highlight

- STOP THE DROP with logo:



- [PROVIDING TOMORROW'S INNOVATIVE SOLUTIONS TODAY®]

- [Information on Two page marketing piece is below.]

{**Note to reviewer: This section is intended to be placed in a package insert/foldout**}

AV-5055

EPA Reg. No. 69969-7

STOP THE DROP!®

APPLICATION TECHNIQUES AND BEST PRACTICES

AV-5055 goose repellent denies geese a place to feed and makes an excellent foundation on which to build an integrated program for geese management.

Rates:

Apply at the rate of ½ gallon per acre (¼ quart per ¼ acre) of turf grass. Do not apply more than 7 times per year to the same area. For additional information, call 1-877-554-3373.

Water:

To be most effective, AV-5055 must be applied to, and stay on, the leafy surfaces. Therefore, spray runoff must be avoided. To avoid runoff and maximize effectiveness, it is recommended that 6-20 gallons of tank mix be applied per acre of turf grass. Amounts of water in the tank mix will vary depending on the type of equipment used. Do not exceed 20 gallons/acre. For more info on Spray Volume Rates, see the “**Application Requirements and Recommendations**” section.

Spray Additive:

AV-5055 contains a sticking adjuvant. No additional sticker is needed for normal conditions. Additional sticker should be used for the final late fall application and this will allow the treatment to remain on dormant grass through the winter. The sticker can be a clear, non-ionic polymer-based anti-transpirant such as Transfilm®, Vapor Gard® or Wilt-Pruf® and should be used at a 0.25 to 0.50% v:v (volume anti-transpirant : volume AV-5055 spray mixture). Example: 1 gallon of AV-5055 with 19 gallons = 20 gallons of tank mix. If you use a 0.5% sticker ratio, you would need 20 gallons mix x 0.005 = 0.1 gallon of sticker (13 oz. of sticker).

Sprayer Guidelines:

Spray with a fine droplet. Any sprayer that can deliver a fine droplet will suffice. The object is to coat (mist) the surface of the turf grass with an AV-5055 application. The best way to describe this would be as if you were “spray painting” the turf. On newly seeded areas use a fine mist so that the young plants and roots will not be disturbed.

- Apply with a properly calibrated sprayer.
- Keep tank mix thoroughly agitated.
- Apply to **dry turf** only.
- Avoid dragging hoses over the treated areas.

Thoroughly clean all spray equipment as soon after application as possible. **Do not** allow tank mix to settle or remain unagitated for more than 2-3 hours.

Allow the AV-5055 application to dry on the turf surface before re-entering the site.

Equipment for Spraying AV-5055:

On the website www.FC-EquipmentTechniques.com which will help you choose the proper equipment for applying this product and the settings for the different equipment. If after you view this video you still have questions, please call 877-554-3373.

When and Where to Apply:

Apply when geese have begun to flock in one area and are problematic. AV-5055 can be applied anytime during the year when temperatures are above freezing. When starting a goose management program, the application should be made to the “drop zone” and wherever geese are persistent. The “drop zones” are those areas where the geese droppings are found.

AV-5055 can be started at any time during the year. For best results here is a typical suggested AV-5055 application program for “Northern States” with an eight month growing season:

- Early Spring February-March
- Spring March-April
- Late Spring May-June

- Summer July-August
- Early Fall September-October
- Late Fall November
- "Southern States" add December-January

AV-5055 can be applied to any turf grass area. Some of these areas might include: sports fields, park grounds, golf courses, commercial and industrial office complexes, home lawns, and cemeteries.

Each time the turf is mowed some of the leaf surface is removed. An AV-5055 application will last between 2 – 3 mowing's during seasons of actively growing turf.

Frequency of application diminishes as the geese are conditioned to AV-5055. Apply only to turf grass areas. Do not apply to sidewalks, parking lots, patios, etc. The geese will naturally leave these areas when their food source is denied by applications of AV-5055 to the adjacent turf grass areas.

Expectations:

AV-5055 teaches the geese to avoid the treated area and, therefore, denies them this area as a place to feed. This "educational process" for the geese can take several days. For the first 1 to 3 days following application the geese **may** remain on or near the treated area. This is normal, because the geese need time to experience and learn from the AV-5055 application.

After 3 days, the amount of geese should be significantly reduced, by at least 80%. Some geese tend to be more persistent and therefore, may resist "moving on." Subsequent applications of AV-5055 will rid the site of these persistent geese.

During nesting season (March – June) you will be able to only control where on the site they will feed. Before geese are capable of flying, it may not be possible to repel them completely from the site. While the geese are unable to leave, "tolerance zones" may be established. These "tolerance zones" will give the geese a place to move to and keep them off the desired geese-free areas.

APPLICATION REQUIREMENTS AND RECOMMENDATIONS

AV-5055 is a foliar-applied goose repellent that **MUST** be applied properly to the turf grass leaf blade to assure its effectiveness in repelling Canada geese. A proper application will evenly distribute a medium-fine to fine droplet to adhere to the turf grass leaf blade and when the geese forage, they will ingest it. Product not applied properly (i.e., with a coarse droplet) will be washed to the soil and therefore not available to the foraging geese.

The following material outlines application requirements and recommendations to ensure maximum repellency for Canada geese.

AV-5055 Application Requirements:

- **Do Not** apply when surface to be treated is wet or when rain is expected.
- Stay off treated area until it dries.

AV-5055 Additional Application Recommendations:

- Mow turf and rake leaves, grass clippings or other debris prior to application.
- Avoid applications prior to irrigation cycle. Product requires up to 4 hours to dry on turf grass leaf blade.
- Avoid applications in windy conditions.
- Clean out spray equipment after application.

FOR AV-5055 APPLICATIONS USING A PUMP-DRIVEN SPRAYER

AV-5055 Use Rate:

Apply AV-5055 at a rate of ½ gallon of product per treated acre (½ quart per ¼ acre) for repeat applications after the geese have been conditioned to avoid the treated areas.

Spray Volume Rate:

AV-5055 spray mixture is recommended at 1 gallon of mixture per 2000 ft.². This would be equivalent to a square area approximately 45 feet long and wide. **This also equates to 20 gallons of mixture per acre (GPA).** With the proper calibration and application technique, a spray volume rate (6 to 20 GPA) can be used to effectively apply AV-5055. Always maintain proper mixture agitation or recirculation during spraying. Failure to do so will result in a decrease in the active ingredient (AI) applied and reduced efficacy (reason – AI is heavier than water and will sink if not agitated or recirculated).

SPRAY NOZZLE TYPE

Boom-Type Sprayer: Boom sprayers are highly recommended because they provide very uniform spray coverage. Spray nozzle selection will determine spray volume and spray mist size.

NOZZLE SELECTION	RECOMMENDATION
TeeJet Nozzles equipped to apply medium-fine to fine spray droplet	Acceptable
Single Fan Nozzles such as XR TeeJet (XR8001, XR11001, & XR110015)	Adequate
TwinJet Nozzle: TJ60-8001	They apply two flat fan spray patterns 60° apart, providing dual coverage to both sides of the turf grass leaf blade. Apply to small area and check to be sure medium-fine to fine sized tan-colored droplets are visible on turf grass blade before continuing application.

Gun Sprayer: A JD9 or Lesco Mag1 spray gun is appropriate for proper application. Both should be calibrated to deliver a medium-fine to fine mist at the desired spray volume rate. Apply to small area and check to be sure medium-fine to fine sized tan-colored droplets are visible on turf grass blade before continuing application. **NOTE: The Lesco Gun and the Chemlawn Gun are not recommended.**

FOR AV-5055 APPLICATIONS USING A BACKPACK OR COMPRESSED AIR SPRAYER

When small or hard to reach areas will not allow larger scale applications, a smaller backpack or compressed air sprayer may be used. Follow the recommendations stated previously with the following considerations or adjustments.

Follow these use recommendations and repel nuisance Canada geese from your turf grass area. If you have any Questions, call 877-554-3373.

[Flight Control[®], Stop The Drop![®], and Providing Tomorrow's Innovative Solutions Today[®] are registered trademarks of Arkion[®] Life Sciences, LLC.]

[Providing Tomorrow's Innovative Solutions Today[®]]

{Note to reviewer: This is the end of the package insert}

{Sub-label 2: Language specific for rice seed treatment use}

[FOR THE PROTECTION OF RICE SEED AGAINST CONSUMPTION BY BLACKBIRDS]

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Reformulation or repackaging of this product is prohibited. 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 agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and 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 4 hours. "Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated areas if there will be no contact with anything that has been treated."

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

- Coveralls
- Waterproof chemical-resistant gloves (barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils, viton \geq 14 mils)
- Shoes plus socks
- Protective eyewear

USE RESTRICTIONS:

AV-5055 may be applied to rice seed including conventional and hybrid seed varieties for use in drilled, water seeded or broadcast applications.

When applied properly AV-5055 forms a bird repellent coating on rice seed. Birds may sample treated seeds but they will avoid additional consumption. **Thorough, uniform, and consistent coverage** is essential for full protection from bird depredation. Use only at labeled rate. Lower amounts may not give desired control.

- Use this product only in commercial seed treatment equipment.
- Use only at the labeled rate. Lower amounts may not give desired control.
- Do not allow children, pets, or livestock to have access to treated seed.
- Treated seed must not be used for or mixed with food or animal feed, or processed for other uses.
- Store treated seed away from feed and foodstuffs.
- Wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seed.
- Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals.
- Do not apply more than 0.44 lb. anthraquinone per acre (199 g a.i./A) per year as a seed treatment application.
- For rice (based upon an average seed weight of 15,600 seeds/lb.): This seed has been treated with 0.085 mg anthraquinone/seed.
- A maximum of one (1) application may be made per acre per season.
- Once the rice fields have been water-seeded with AQ-treated seeds, do not allow workers to enter the rice paddy for 48 hours. After the REI has expired, workers must, at a minimum, wear knee-high water-resistant boots in order to enter the paddy.
- Do not drain water from AQ-treated rice fields to irrigate other crops, use for livestock or discharge into potable water sources.

- Dispose of all excess treated seed. Leftover treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.

APPLICATION

RATE: AV-5055 may be applied as a water-based slurry alone, or with other compatible seed treatment materials, or sequentially with other registered, crop protection products. Apply water-based slurry through a standard slurry, mist-type or batch commercial treater. Prior to mixing, potential tank mix partners which include pesticides, colorants, dyes and polymers should be tested for physical compatibility with AV-5055.

Application rate is 18.3 fluid ounces (1.6 pounds) of AV-5055 per 100 pounds of rough rice seed. For application rate ranges, refer to the AV-5055 application rate table.

AV-5055 Application Rate Table

Pounds of Rough Rice Seed	Fluid Ounces (Pounds) AV-5055	Gallons AV-5055
100	18.3 (1.6)	0.14
200	36.6 (3.2)	0.28
300	54.9 (4.8)	0.43
400	73.2 (6.4)	0.57
500	91.5 (8.0)	0.71
700	128.0 (11.1)	1.00
1000	183.0 (16.0)	1.43

MIXING INSTRUCTIONS

1. Application equipment must be clean and free of previously used pesticide residues before applying AV-5055.
2. Shake AV-5055 well or agitate prior to use.
3. Mixing AV-5055 or AV-5055 with tank - mix partners: add ½ of the required water and add AV-5055 or AV-5055 and tank mix - partners to the mix tank. Start and maintain constant mechanical and by pass agitation throughout the entire mixing and treating process.
4. Accurate calibration of the application equipment and frequent checks of this calibration is recommended to ensure proper seed coverage.
5. Uniform coating of the seed is necessary to ensure proper efficacy.
6. Depending on the type of seed treating equipment a small amount of water can be added to the product to facilitate product flow through the spray nozzles. Do not exceed five (5) fluid ounces of water per one gallon of AV-5055.
7. Environmental conditions such as temperature and humidity could have an effect on handling and during the drying of seed just after treatment.

Failure to follow the directions for use and precautions on this label may result in crop injury, or illegal residues.

Treatment of highly mechanically damaged seed, or seed of known low vigor and poor quality, may result in reduced germination and / or reduction of seed and seedling vigor. Treat and conduct germination test on a small portion of seed before committing the total seed lot to a select chemical treatment. Due to seed quality conditions beyond the control of Arkion Life Sciences, LLC, no claims are made to guarantee germination of carry over seed.

After treatment, seed must be dry before storage or rebagging.

SEED CONTAINER LABEL REQUIREMENTS

The Federal Seed Act requires that containers of treated seeds must be labeled with the following statements:

- This seed has been treated with 9-10, anthraquinone bird repellent.
- Do not use for feed, food, or oil purposes.
- User is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

In addition, the following statements are required on containers of seeds treated with AV-5055

- Do not allow children, pets, or livestock to have access to treated seed.
- Treated seed must not be used for or mixed with food or animal feed, or processed for other uses.
- Store treated seed away from feed and foodstuffs.

- Wear long-sleeved shirt, long pants, and chemical resistant gloves when handling treated seed.
- Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals.
- Do not apply more than 0.44 lb. anthraquinone per acre (199 g a.i./A) per year as a seed treatment application.
- For rice (based upon an average seed weight of 15,600 seeds/lb.): This seed has been treated with 0.085 mg anthraquinone/seed.
- A maximum of one (1) application may be made per acre per season.
- Once the rice fields have been water-seeded with AQ-treated seeds, do not allow workers to enter the rice paddy for 48 hours. After the REI has expired, workers must, at a minimum, wear knee-high water-resistant boots in order to enter the paddy.
- Do not drain water from AQ-treated rice fields to irrigate other crops, use for livestock or discharge into potable water sources.
- Dispose of all excess treated seed. Leftover treated seed may be double down around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.

[AV-5055 and Arkion® are registered trademarks of Arkion® Life Sciences, LLC.]

[TAJ20201008]