



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

69969-4

Date of Issuance:

1/5/16

Expires 1/5/18

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

AV-1011 Rice Seed Treatment

Name and Address of Registrant (include ZIP Code):

Arkion Life Sciences, LLC
c/o
Crystal Layton
Landis International, Inc.
P.O. Box 5126
Valdosta, GA 31603-5126

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration 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 Agency. In order to protect health and the environment, the Administrator, on his 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 this 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 conditionally registered in accordance with FIFRA section 3(c)(7)(B). You must comply with the following conditions:

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

Signature of Approving Official:

Meredith F. Laws, Branch Chief
Invertebrate & Vertebrate Branch 3
Registration Division (7505P)

Date:

1/5/16

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Decision No. 504131

2. You are required to submit to the Agency an acceptable prenatal developmental - rabbit study (Guideline 870.3700). This study is required within two (2) years of the date of this Notice.
3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 69969-4."
4. Submit one copy of the final printed label for the record before you release the product for shipment.
5. This registration is time-limited and will terminate on January 5, 2018 unless renewed by EPA.

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 fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated 03/11/15

If you have any questions, please contact Gene Benbow by phone at 703-347-0235, or via email at Benbow.Gene@epa.gov.

Enclosure

AV-1011® Rice Seed Treatment

For the protection of Rice Seed against consumption by Blackbirds.

ACTIVE INGREDIENT

9,10-Anthraquinone50%

OTHER INGREDIENTS 50%

Total 100%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
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 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 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.
<p>FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE 1-800-535-5053. HAVE THE PRODUCT CONTAINER OR LABEL AVAILABLE WHEN SEEKING TREATMENT ADVICE. See side panel for additional precautionary statements.</p>	

MANUFACTURED BY:
ARKION® LIFE SCIENCES LLC
551 Mews Drive Suite J
New Castle, DE 19720

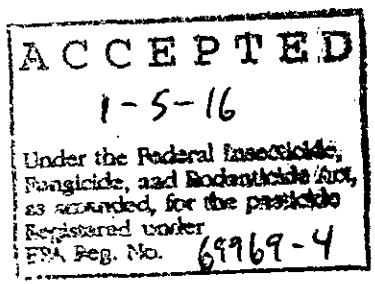
EPA Establishment No. 62171-MS-1

EPA Registration No.: 69969-X

NET CONTENTS: 2.5 Gallon

DATE OF MANUFACTURE: _____

20160105 CLL



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Harmful if inhaled. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash clothing before reuse. Causes moderate eye irritation. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT: When handling AV-1011, use long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves. 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: Users 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.

The use of AV-1011 in agricultural applications is protected by US Patents 6,328,986; 5,885,604; 5,922,774

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.

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 gloves
- shoes plus socks
- protective eyewear

USE RESTRICTIONS

AV-1011 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-1011** 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 the labeled rate.

Lower amounts may not give desired control.

- Use this product only in commercial seed treatment equipment.
- Treated seed must not be used for or mixed with food or animal feed, or processed for other uses.
- 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.

- Prolonged or frequently repeated skin contact may cause an allergic reaction in some individuals.
- A maximum of 1 application may be made per acre per season.

APPLICATION

RATE: AV-1011 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-1011.

Application rate is 18.3 fluid ounces of AV-1011 per 100 pounds of rough rice seed. For application rate ranges, refer to the AV-1011 application rate table.

AV-1011 Application Rate Table

Pounds of Rough Rice Seed	Fl. oz. AV-1011	Gallons AV-1011
100	18.3	0.14
200	36.6	0.28
300	54.9	0.43
400	73.2	0.57
500	91.5	0.71
700	128.0	1.00
1000	183.0	1.43

MIXING INSTRUCTIONS

1. Application equipment must be clean and free of previously used pesticide residues before applying AV-1011.
2. Shake AV-1011 well or agitate prior to use.
3. Mixing AV-1011 or AV-1011 with tank - mix partners: add $\frac{1}{2}$ of the required water and add AV-1011 or AV-1011 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 insure proper seed coverage.
5. Uniform coating of the seed is necessary to insure 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-1011.
7. Environmental conditions such as temperature and humidity could have an effect on handling and during the drying of seed just after treatment.

After treatment seed must be dry before storage or rebagging.

Note: Federal law requires that bags of treated seeds shall be labeled with the following information. "This seed has been treated with 9,10-Anthraquinone bird repellent. Do not use for food, feed or oil purposes. Store away from food and feedstuffs." Use with an EPA - approved dye or colorant that imparts an unnatural color of the seed.

STORAGE AND DISPOSAL

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

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

Pesticide Disposal: 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® also can be contacted for guidance on the disposal of pesticide wastes.

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 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 if available or puncture and dispose of in a sanitary landfill, or by incineration.

CONDITIONS OF SALE AND WARRANTY:

Arkion® 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.

ARKION® 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® and Seller. Risks such as ineffectiveness will be assumed by the Buyer or User.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO CASE WILL ARKION® 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.

Contain and collect spilled product immediately.

AV-1011® and Arkion® are registered trademark of Arkion® Life Sciences LLC, 551 Mews Drive, Suite J, New Castle, DE 19720 800/468-6324 and www.Arkionls.com