

67727-3

7/30/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

July 30, 2013

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Technology Sciences Group
712 Fifth Street, Suite A
Davis, CA 95616
Attn: Amy Plato Roberts

Subject: Notification: Addition of parenthesis to indicate optional text and make minor text changes, consistent with the provisions of PR Notice 98-10.

Product name: **1, 4 SEED®**.
EPA Reg. No: **67727-3**.
Your Submission dated June 18, 2013.

Dear Ms. Roberts:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticide Registration Notice (PRN) 98-10 dated above. A screen of this request has been conducted for its applicability under PRN 98-10, and it has been determined that the action requested falls within the scope of this Notice. Our records have been duly noted, and the label submitted with this application has been stamped "Notification Accepted" and will be placed accordingly in our records.


Three (3) copies of final printed labeling must be submitted to the Agency before your product as modified, may be sold or distributed [PR Notice 82-2 and 40 CFR 156.10(a) (6)].

If you have any questions regarding this action, you may contact Mr. Sylvester George at (703) 603-0688 or via e-mail at george.sylvester@epa.gov.

Sincerely,

Linda A. Hollis

Linda A. Hollis, Chief
Biochemical Pesticide Branch
Biopesticides and Pollution
Prevention Division (7511P)

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide – Section I

1. Company/Product Number 67727-3	2. EPA Product Manager Linda Hollis	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) 1,4SEED	PM# 91/Biochemical/BPPD	
5. Name And Address Of Applicant (Include ZIP Code) D-I-1-4, a division of 1,4Group, Inc. PO Box 860 Meridian, ID 83680 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

Notification Accepted

<input type="checkbox"/> Amendment – Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification – Explain below.	<input type="checkbox"/> Final Printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other – Explain Below.	Date: 7/24/13 Reviewer: <i>Sylvester George</i>
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Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification to add parenthesis to indicate optional text and to make minor text changes. See cover letter dated June 18, 2013 for details.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section III

1. Material This Product Will Be Packaged In:			
Child Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)
* Certification must be submitted		If "Yes" No. per Unit Packaging wgt. Container	If "Yes" No. per Unit Packaging wgt. Container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(S) Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithographed <input type="checkbox"/> Other _____ <input type="checkbox"/> Pager glued <input type="checkbox"/> Stenciled			

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Amy Plato Roberts, Technology Sciences Group, Inc.	Title Regulatory Consultant; aroberts@tsqusa.com	Telephone No. (Include Area Code) (202) 684-2784
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		Date Application Received <div style="border: 1px solid black; padding: 5px; text-align: center;">(Stamped)</div>
2. Signature 	3. Title Regulatory Consultant	
4. Typed Name Amy Plato Roberts	5. Date June 18, 2013	

Notification Accepted

Date: 7/30/2013

Reviewer: Sylvester George

1,4SEED®

(Alternate Brand Name: "1,4SIGHT")

Aerosol Grade – (Seed Potato) (Root, Tuber and Bulb (Crop)) Dormancy Enhancer

Active Ingredient: 1,4-Dimethylnaphthalene* 98.4%
 Other Ingredients: 1.6%
 TOTAL 100.0%

*Contains 8.3 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN WARNING

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals – WARNING: Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Environmental Hazards: This product is highly toxic to freshwater fish and aquatic invertebrates. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

FIRST AID	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
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 a 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 a poison control center or doctor. • Do not give anything to an unconscious person.
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.
EMERGENCY INFORMATION	
For spill, leak, fire, exposure or accident call PERS 1-800-633-8253.	

(Follow the Directions for Use as labeled on the outer carton when applying this product.) (See inside for First Aid and Precautionary Statements.)

Net Contents: _____
(Lot No./Batch No.: _____)

EPA Reg. Number: 67727-3
EPA Est. Number: XXXXX-XXX-XXX

Manufactured for:
D-I-1-4, Inc., a division of 1,4Group, Inc.
P.O. Box 860
Meridian, ID 83680 USA

(Product of Japan)

(1,4SEED® is a registered trademark of the 1,4GROUP for chemicals for agriculture.)

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DIRECTIONS FOR USE

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

NOTICE

- 1,4SEED® is used as an aerosol to enhance the dormancy of seed potatoes (and other root and tuber crops, bulb crops, and ornamental flowering bulbs) prior to germination.
- Applicators and other handlers must wear: long-sleeved shirt, long pants, shoes, socks, protective eyewear (goggles or face shield), and chemical resistant (such as nitrile or butyl) gloves.
- For reentry into treated areas during application and prior to ventilation or settling of aerosol fog, workers must wear: coveralls over long-sleeved shirt, long pants, shoes plus socks, and chemical resistant (such as nitrile or butyl) gloves; face-sealing goggles, unless a full-face respirator is worn; and a respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.
- 1,4SEED® must not be applied to potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) in the field.
- 1,4SEED® may be applied anytime after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed into the storage area.
- Do not allow vapors to come in contact with storage areas used for seed potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) within 30 days of their planting.

(Optional text/section on CROPS)

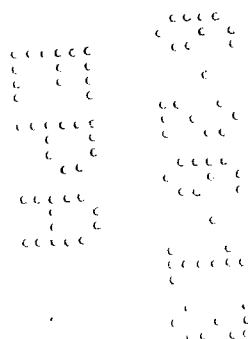
CROPS

1,4SIGHT® is effective on the following sprouting root and tuber crops:

- Beet
- Carrot
- Cassava
- Dasheen (taro)
- Ginger
- Ginseng
- Horseradish
- Parsnip
- Potato
- Sweet potato
- Turnip
- Yam

1,4SIGHT® is effective on the following sprouting bulb crops:

- Garlic
- Leek
- Onion
- Shallot



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1,4SIGHT® is effective on the following sprouting ornamentals:

Flowering bulbs

FORCED AIR DISTRIBUTION METHOD

- 1. Prepare aerosol generating equipment. The discharge from the vaporizer should be located to provide optimum distribution in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
- 2. Running fans during the application may aid disbursement of vapors, but it is not required.
- 3. It is advantageous to keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).

TREATMENT OF STORAGE AREAS THAT DO NOT HAVE RECIRCULATING AIR SYSTEMS

These storage areas are more difficult to treat. Additional steps must be taken to treat these storage areas.

- 1. Prepare aerosol generating equipment. The discharge from the vaporizer should be located to provide optimum distribution in the storage area. Take precautions to prevent the spray from coming into direct contact with the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).
- 2. Completely close off the area to be treated. This may include vent doors in the attic and walk doors around the perimeter. The large truck doors may need to be sealed to prevent excess leakage.
- 3. Begin the treatment by following the listed steps:
 - A. Start the aerosol generator.
 - B. Adjust the location of the vaporizer so all the storage area receives an equal amount of aerosol fog. It may be necessary to move the vaporizer during the application or make the application in multiple phases. For reentry into treated areas during application and prior to ventilation or settling of the aerosol fog, workers must wear: coveralls over long-sleeved shirt, long pants, shoes plus socks, and chemical resistant (such as nitrile or butyl) gloves; face-sealing goggles, unless a full-face respirator is worn; and a respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.
- 4. Wait at least 12 hours before fresh air is introduced into the storage area, then return the storage area to "normal" operation.
- 5. It is advantageous to keep the storage area closed as long as practical to allow for maximum absorption into the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs).

APPLICATION TIMING AND RATES

Application of 1,4SEED® can be made anytime after the potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) are placed in the storage area.

- 1. Apply at rates of up to 1 pound of active ingredient per 50,000 lbs (500 cwt), which is equivalent to 20 ppm on a product to crop basis or 1 gallon per 4,000 cwt.

- 2. While potatoes (or other root and tuber crops, bulb crops, or ornamental flowering bulbs) may be retreated as necessary for effective control, do not exceed the maximum application of 80 ppm during the storage season.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Keep container closed. This product temporarily inhibits germination of seed potatoes (and other root, tuber and bulb crops).

PESTICIDE DISPOSAL

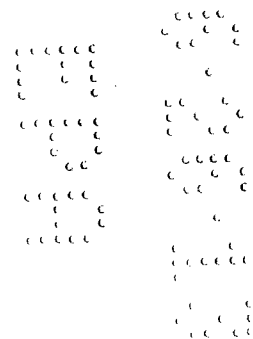
Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING

Nonrefillable container. 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 if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

CONDITIONS OF SALE

1,4Group, Inc. warrants that the product conforms to its chemical description and is reasonable fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to manufacturer, and buyer assumes the risk for any such use. To the extent consistent with applicable law, 1,4GROUP, Inc. makes no other warranties, express or implied, warranty of merchantability or the implied warranty of fitness for a particular purpose, that extend beyond the statements made on this label. To the extent consistent with applicable law, 1,4GROUP, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid or, at 1,4GROUP, Inc.'s election, replacement of the product.



Optional Label Claims:

Application timing and rates optional conversion information:

1 cwt. = 100 lbs = 2.5 cubic feet; 1 ton = 20 cwt.

Product benefits:

- Biochemical delays sprouting, so smaller (buds) (sprouts) on (potatoes) (root and tuber crops) (bulb crops) (and) (ornamental flowering bulbs) (and other sprouting crops).
- Enhances the (potato's) (onion's) (tuber's) (bulb's) ability to heal cuts and bruises.
- Reduces respiration, resulting in less water loss.
- Reduces refrigeration and ventilation needs.
- Reduces pressure bruising.
- Firmer (potatoes) (onions) (bulbs) with improved visual appearance.

