

67727-4

10/26/2012

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

D-I-1-4, Division of 1,4Group, Inc.
c/o Amy Plato Roberts
Technology Sciences Group, Inc.
712 Fifth Street, Suite A
Davis, CA 95616

OCT 26 2012

Subject: Registration Amendments to expand the tolerance exemption to all sprouting root, tuber, and bulb crops for the active ingredient, 1,4-dimethylnaphthalene (1,4-DMN), and add all sprouting root, tuber, and bulb crops to the product labels.
1,4Sight (EPA Reg. No. 67727-1)
1,4Seed (EPA Reg. No. 67727-3)
1,4Ship (EPA Reg. No. 67727-4) ✓
Your submissions dated November 4, 2011, April 26, 2012, and May 15, 2012
Decision Numbers: 454564, 454567, and 454568, PRIA Category B631

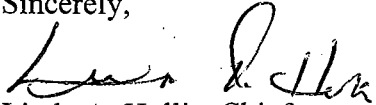
Dear Ms. Roberts:

The amendments referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)(5), are acceptable provided that you:

- 1) Submit and/or cite all data required for registration/reregistration of your products under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2) Submit two (2) copies of your final printed labeling before you release the products for shipment. Final printed labeling means the label or labeling of the products when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registrations will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the products bearing the amended labeling constitutes acceptance of these conditions. Stamped copies of the labels are enclosed for your records. Should you have any questions, you may contact Mr. Colin Walsh directly at (703) 308-0298 or via email at walsh.colin@epa.gov.

Sincerely,


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

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1,4SHIP®

Ready-To-Use Aerosol
(Potato) (Root, Tuber and Bulb (Crop)) Dormancy Enhancer
For Use on (Potatoes) (Root, Tuber and Bulb Crops) Prepared for Transportation
(train, truck, ship graphics)

	(By Weight)
Active Ingredient:	1,4-Dimethylnaphthalene* 63.8%
Other Ingredients: 36.2%
TOTAL 100.0%

*Contains 3.83 ounces active ingredient per can.

ACCEPTED

OCT 26 2012

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No. 67727-4

Keep Out of Reach of Children
WARNING

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 of contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • 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 mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
Emergency Information	
For spill, leak, fire, exposure or accident call PERS 1-800-633-8253.	

HIGHLY FLAMMABLE INGREDIENT (fire graphic) **INGREDIENTE ALTAMENTE INFLAMABLE**

Do Not Smoke During Application or Near Treated Area!

Net Contents: 6 oz.

EPA Reg. Number: 67727-4

(Lot No./Batch No.: _____)

Manufactured for:

D-I-1-4, Inc., a division of 1,4Group, Inc.

P.O. Box 860

Meridian, ID 83680 USA

EPA Est. Number: XXXXX-XXX-XXX

(Product of Japan)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals – WARNING: Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. May be harmful if inhaled. 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.

Physical or Chemical Hazards: Extremely flammable. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. This product contains a highly flammable ingredient. It may cause a fire or explosion if not used properly. Follow the "Directions for Use" on this label very carefully.

DIRECTIONS FOR USE

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

NOTICE

- 1,4SHIP® is a ready-to-use aerosol which enhances the dormancy of potatoes and other root and tuber crops, bulb crops, and ornamental flowering bulbs prepared for transportation.
- During and for 30 minutes after the application, do not smoke, weld, cut metal, or allow open flame, high temperature surfaces, or other ignition sources to be near the treated area.
- 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.
- When either a rail car or cold storage room is treated with more than one can, applicators and other handlers must additionally wear a respirator. Refer to the reentry statement below for acceptable respirator type.
- For reentry into treated areas during application or within 30 minutes post-application, for **emergencies** only, 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-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.
- 1,4SHIP® is a short term dormancy enhancer which will not adversely affect eventual germination of seed potatoes or other crops held for future planting.
- Let 60 days elapse before using a treated area as storage of seed potatoes or other sprouting root, tuber and bulb crops. Air system and building must be thoroughly ventilated before area is used for storage of seed potatoes or other sprouting root, tuber and bulb crops.
- Do not allow vapors to come in contact with storage areas used for seed potatoes or other sprouting root, tuber and bulb crops within 60 days of their planting.

CROPS

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

Beet
Carrot

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

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

- Garlic
- Leek
- Onion
- Shallot

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

Flowering bulbs

APPLICATION OF 1,4SHIP®

1. Fill the area to be treated (truck, rail car, shipping container, or cold storage room) with the and close all but the exit door.
2. Turn off all electrical equipment (air circulators, refrigeration, etc.) in the treatment area prior to application. Turn off lighting in treatment area, and allow to cool prior to application.
3. Remove top portion of box by pulling the separator at the arrow symbol. Take out the enclosed 1,4SHIP® tag and note the date and time of application on the space provided.
4. Position the box(es) containing the can(s) in opposite corners of the treatment area, so vapors will be dispersed throughout the area. In trucks, place box(es) at the end farthest away from the refrigeration unit (near doors).
5. Remove the back side of the double-sided tape and adhere the box containing the can to an inside cargo wall, in an area with some open volume of air around it.
6. Without removing the can from the box, remove the can cap and depress the trigger until it locks.
7. Immediately leave the area and close the exit door.
8. Feed a door seal through the 1,4SHIP® tag and affix the seal to the door.
9. Do not open or enter treated area for at least 30 minutes. Do not start any electrical system within the cargo area for at least 30 minutes.
10. It is advantageous to keep the treated area closed as long as practical to allow for maximum product absorption in to the potatoes.

APPLICATION TIMING AND RATE

Application of 1,4SHIP® can be made anytime after the potatoes or other root and tuber crops, bulb crops, or ornamental flowering bulbs are removed from storage, prepared for shipment, and placed either in a truck sea-going shipping container, rail car, or a cold storage room. Do not exceed recommended maximum number of cans. At the maximum use rate, this can will

treat 2,000 lbs (20 cwt) of potatoes or other root and tuber crops, bulb crops, or ornamental flowering bulbs.

1. In trucks and shipping containers, apply at the rate of 2 cans per 40,000 lbs (400 cwt) of potatoes or other root and tuber crops, bulb crops, or ornamental flowering bulbs.
2. In rail cars, apply at the rate of up to 6 cans per 120,000 lbs (1200 cwt) of potatoes or other root and tuber crops, bulb crops, or ornamental flowering bulbs.
3. In cold storage rooms, apply at a maximum rate of 1 can per 1500 cubic feet and 20,000 lbs (200 cwt) of potatoes or other root and tuber crops, bulb crops, or ornamental flowering bulbs.

(Optional conversion information: 1 cwt. = 100 lbs = 2.5 cubic feet; 1 ton = 20 cwt.)

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store product in unopened, labeled packaging. Do not store product near or expose product to sources of heat, including open flame, sparks, welding operations, etc.

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

Do Not Puncture or Incinerate! **Nonrefillable container. Do not reuse or refill this container.** If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions.

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.

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Optional Label Claims:

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.