



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 16, 2022

Ms. Rachel L. Hardie
Regulatory Consultant
D-I-1-4, a division of 1,4Group, Inc.
c/o Technology Sciences Group Inc.
1150 18th St. NW, Suite 1000
Washington, DC 20036

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Adding company logo; making certain crops optional; various grammatical/stylistic changes
Product Name: 1,4ZAP®
EPA Registration Number: 67727-7
EPA Receipt Date: 04/13/2022
Action Case Number: 00355469

Dear Ms. Hardie:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the 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 EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

Page 2 of 2

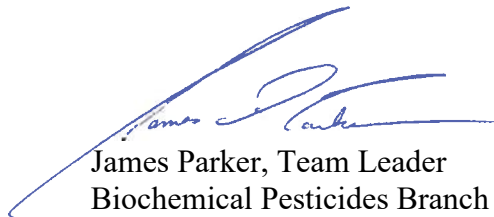
EPA Reg. No. 67727-7

Action Case No. 00355469

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Nina Naimy via email at naimy.nina@epa.gov.

Sincerely,



James Parker, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

Enclosure

[Note to reviewer: Text in [brackets] is optional]



1,4Zap®

ACCEPTED
Jun 16, 2022
<small>Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 67727-7</small>

Aerosol Grade – [Potato] [Root, Tuber and Bulb [Crop]] Sprout Eliminator

Active Ingredient: 1-Octanol*..... 99.0%

Other Ingredients: 1.0%

Total: 100.0%

*Contains 6.8 lbs. active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals – CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wear coveralls over long-sleeved shirt, long pants, shoes, socks, and protective eyewear (goggles or face shield). 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: 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 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.	

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

EPA Reg. Number: 67727-7
EPA Est. Number: XXXXX-XXX-XXX

Manufactured for:
D-I-1-4, Inc., a division of 1,4GROUP, Inc.
2307 E. Commercial St., Ste A
Meridian, ID 83642 USA

DIRECTIONS FOR USE

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

NOTICE

- 1,4Zap® is used as an aerosol to eliminate peeps and sprouts of potatoes [and to enhance the dormancy of potatoes] [and other root and tuber crops, bulb crops, and ornamental flowering bulbs] during the storage phase.
- Applicators and other handlers must wear coveralls over long-sleeved shirt, long pants, shoes, socks, and protective eyewear (goggles or face shield).
- 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.
- 1,4Zap® must not be applied to potatoes [or other root and tuber crops, bulb crops, or ornamental flowering bulbs] in the field. Apply only from the outside of the treated storage areas.
- Apply 1,4Zap® after potatoes [or other root and tuber crops, bulb crops, or ornamental flowering bulbs] are harvested and allowed to suberize completely. Apply as an aerosol through forced air distribution systems.
- Let 60 days elapse before using a treated storage area as a temporary holding area for seed potatoes [or other sprouting root, tuber, and bulb crops]. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes [or other sprouting root, tuber, and bulb crops] to prevent dormancy effects.
- Do not allow vapors to come in contact with storage areas used for seed potatoes [or other sprouting root, tuber, and bulb crops] within 30 days of their planting.

[CROPS]

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

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

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

Garlic	Onion
Leek	Shallot]

[1,4Zap® 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. Operate recirculation fans continuously during application for at least 1 hour and up to 24 hours after completing application to ensure proper distribution of product.
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. For best results wait at least 48 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].

TREATMENT IN SMALL CONTAINERS

1. Prepare the application equipment. The discharge from the applicator should be located to provide optimum placement 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. 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

[Note to reviewer: Text in [brackets] is optional]

Apply after potatoes [or other root and tuber crops, bulb crops, or ornamental flowering bulbs] are harvested and allowed to suberize completely. Apply as an aerosol through forced air distribution systems. Apply at rates of up to 5 pounds of active ingredient per 50,000 lbs (500 cwt), which is equivalent to 100 ppm on a product to potato [crop] basis.

While potatoes may be retreated as necessary for effective control, do not exceed the maximum application of 400 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

(Containers 5 gallons or less) 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.

(Containers over 5 gallons) Nonrefillable container. Do not reuse or refill this container 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 equipment or a mix tank or store rinsate for later use or disposal. 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.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties, Limitations of Liability, and Notice before using this product. If the terms are not acceptable, return the unopened product container immediately. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties, Limitations of Liability, and Notice.

CONDITIONS: This product is intended to be used and applied by a licensed professional. The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of

[Note to reviewer: Text in [brackets] is optional]

which are beyond the control of 1,4GROUP, Inc. To the extent consistent with applicable law, all such risks shall be assumed by the buyer or user.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 1,4GROUP, INC. MAKES NO WARRANTIES EXCEPT AS SPECIFICALLY STATED ON THE PRODUCT LABEL AND SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. 1,4GROUP, INC. DOES NOT WARRANT RESULTS. No agent or licensee of 1,4GROUP, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL 1,4GROUP, INC. BE LIABLE TO THE BUYER, USER, OR ANY OTHER THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE, OR EXEMPLARY DAMAGE (INCLUDING, WITHOUT LIMITATION, LOST PROFITS, LOST SAVINGS, OR LOST BUSINESS OPPORTUNITY) FROM THE USE OR HANDLING OF THIS PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 1,4GROUP, INC.'S LIABILITY IS LIMITED TO REPLACEMENT OF ANY PRODUCT, WITHIN THE CONTINENTAL UNITED STATES, THAT WAS NOT IN CONFORMANCE WITH THE PRODUCT LABEL AT THE TIME OF SHIPMENT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL 1,4GROUP, INC.'S LIABILITY FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, EXCEED THE PURCHASE PRICE PAID.

“1,4Zap® is a registered trademark of 1,4GROUP chemicals for agriculture.”

[Note to reviewer: Text in [brackets] is optional]

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].
- Reduces respiration, resulting in less water loss.
- Reduces refrigeration and ventilation needs.
- Reduces pressure bruising.
- Firmer [potatoes] [onions] [bulbs] with improved visual appearance.
- Increases potatoes [crops] natural resistance to pathogens.
- Enhance turgidity and sprout desiccation.
-

Additional Optional Text:

- Peel back for instructions
- This page intentionally left blank
- 1 system 4 all your needs
 - o 1 4@SIGHT
 - o 1 4@SHIP
 - o 1 4@SEED
 - o 1 4@ZAP
- Our clients enjoy a complete system of products, optimally designed to work together
- Included in the [1,4Group] [One Four Group] Product Portfolio: [PIN NIP® 98% CIPC] [Spud Guard® 2 EC]

(OPTIONAL SPANISH TRANSLATION FOR HEALTH AND SAFETY INFORMATION)

MANTENER FUERA DEL ALCANCE DE LOS NIÑOS CUIDADO MEDIDAS DE PRECAUCIÓN

Peligros Para los Seres Humanos y los Animales Domésticos – CUIDADO: Provoca irritación ocular moderada. Evite el contacto con los ojos, la piel o la ropa. Use overoles con camisa mangas largas, pantalones largos, zapatos, calcetines y gafas protectoras (gafas o

[Note to reviewer: Text in [brackets] is optional]

protector facial). Evite el contacto con la piel. Lávese bien con agua y jabón después de manipular el producto y antes de comer, beber, mascar chicle, usar tabaco o ir al baño. Quítese la ropa contaminada y lave la ropa antes de volver a utilizarla.

Peligros Ambientales: No contamine el agua cuando limpie o deseche las aguas residuales del lavado del equipo.

Primeros Auxilios	
Al momento de llamar el centro de toxicología o al médico o de buscar tratamiento, lleve el envase o la etiqueta del producto.	
Si entra en contacto con los ojos:	<ul style="list-style-type: none">• Mantenga los ojos abiertos y enjuague lenta y suavemente con agua entre 15 a 20 minutos.• Sáquese las lentes de contacto después de los primeros 5 minutos, si usa y luego continúe enjuagándose los ojos.• Llame a un centro de toxicología o un médico para recibir asesoramiento médico.
Si entra en contacto con la piel o la ropa:	<ul style="list-style-type: none">• Quítese la ropa contaminada.• Enjuague la piel inmediatamente con abundante agua entre 15 a 20 minutos.• Llame a un centro de toxicología o un médico para recibir asesoramiento médico.
Información de Emergencia	
En caso de derrames, fugas, incendios, exposición o accidentes llame a PERS 1-800-633-8253.	

INSTRUCCIONES DE USO

Es una violación de la ley federal usar este producto de una manera inconsistente con su etiquetado.

ALMACENAMIENTO Y DESECHO

No contamine el agua, los alimentos o comederos con el almacenamiento o el desecho del producto.

ALMACENAMIENTO DE PESTICIDAS

Mantenga el recipiente cerrado. Este producto inhibe temporalmente la germinación de las papas de siembra.

DESECHO DE PESTICIDAS

Los residuos resultantes del uso de este producto se pueden eliminar in situ o en instalaciones para tratamiento de desechos.

MANEJO DE LOS RECIPIENTES

(Envases de 5 galones o menos) Recipiente no recargable. No reutilice ni vuelva a llenar este recipiente. Enjuague tres veces (o su equivalente) inmediatamente después del vaciado. Enjuague tres veces de la siguiente

manera: Vacíe el contenido residual en el equipo de aplicación o en un tanque de mezcla y, una vez que el flujo comience a gotear, drene durante 10 segundos. Llene el recipiente con 1/4 de agua y vuelva a taponarlo. Agite durante 10 segundos. Vierta la sustancia de enjuague en el equipo de aplicación o en un tanque de mezcla o almacene la sustancia de enjuague para su posterior utilización o eliminación. Luego de que el flujo comience a gotear, drene durante 10 segundos. Repita este procedimiento dos veces más. Luego, ofrézcalo para reciclado, si estuviera esta opción disponible, o perfore y deseche en un vertedero sanitario; también puede eliminarlo por incineración. No lo incinere, a menos que así lo permitan las ordenanzas estatales y locales.

(Envases de más de 5 galones) Recipiente no recargable. No reutilice ni vuelva a llenar este recipiente. Enjuague tres veces de la siguiente manera: vacíe el contenido restante en el equipo de aplicación o un tanque de mezcla. Llene el recipiente con 1/4 de agua. Reemplace y ajuste los cierres. Inclíne el recipiente y gírelo hacia adelante y atrás; asegúrese de que gire completamente al menos una vez durante 30 segundos. Pare el recipiente, apóyelo sobre uno de sus lados y voltéelo varias veces hacia arriba y abajo. Pare el recipiente sobre el otro extremo y voltéelo varias veces hacia arriba y abajo. Vierta la sustancia de enjuague en el equipo de aplicación o un tanque de mezcla para almacenarla o desecharla. Repita este procedimiento dos veces más. Luego, reciclelo, si estuviera esta opción disponible, o perfore y deseche en un vertedero sanitario; también puede eliminarlo por incineración. No lo incinere, a menos que así lo permitan las regulaciones estatales y locales.

Fabricado para:

D-I-1-4, a division of 1,4GROUP, Inc.
2307 E. Commercial St., Ste A
Meridian, ID 83642 USA

Contenido neto xx galones

AVISO

- 1,4Zap® se utiliza como aerosol para eliminar las yemas y los brotes de las papas durante la fase de almacenamiento.
- Los aplicadores y otros trabajadores deben usar: camisa de manga larga, pantalones largos, zapatos, calcetines, gafas protectoras (gafas o protector facial).
- Para volver a ingresar a las áreas tratadas durante la aplicación y antes de la ventilación o sedimentación de la niebla del aerosol, los trabajadores deben usar: overoles completos de manga larga, pantalones largos, zapatos más calcetines y guantes resistentes a productos químicos (de nitrilo o butilo); gafas completamente cerradas, a menos que se use un respirador con máscara completa; y un respirador con un cartucho de extracción de vapor orgánico con un prefiltro aprobado para pesticidas (prefijo de número de aprobación MSHA/NIOSH TC-23C) o un recipiente aprobado para pesticidas (prefijo de número de homologación MSHA/NIOSH TC-14G), o un respirador aprobado por NIOSH con un cartucho o recipiente para vapor orgánico (OV) con cualquier prefiltro R, P o HE.
- 1,4Zap® no debe aplicarse en las papas en el campo. Aplicar solo desde el exterior de las áreas de almacenamiento tratadas.

[Note to reviewer: Text in [brackets] is optional]

- Aplicar 1,4Zap® después de cosechar las papas y dejar que suberice completamente. Aplicar como aerosol a través de sistemas de distribución de aire forzado.
- Deje que transcurran 60 días antes de utilizar un área de almacenamiento tratada como área de almacenamiento temporal de las papas de siembra. Los componentes del sistema de aire (incluidos los conductos) y el edificio deben ventilarse a fondo antes de utilizar el área para el almacenamiento de las papas de siembra para evitar efectos de latencia.
- No permita que los vapores entren en contacto con las áreas de almacenamiento utilizadas para almacenar las papas de siembra dentro de los 30 días posteriores a su plantación.

Espera al menos 48 horas para que el aire fresco acceda al área de almacenamiento y luego reestablezca el funcionamiento “normal” del área de almacenamiento.