1,4ZAP®

Aerosol Grade - Potato 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

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	• 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	• 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.

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.

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 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 gloves such as barrier laminate, butyl rubber (≥14 mils), and nitrile rubber (≥14 mils), or made of any waterproof material; 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 pre-filter.
• 1,4ZAP® must not be applied to potatoes in the field. Apply only from the outside of the treated storage areas.
• Apply 1,4ZAP® after potatoes 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. Air system components (including ducts) and building must be thoroughly ventilated before area is used for storage of seed potatoes to prevent dormancy effects.
• Do not allow vapors to come in contact with storage areas used for seed potatoes within 30 days of their planting.

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.
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.

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.
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 gloves such as barrier laminate, butyl rubber (≥14 mils), and nitrile rubber (≥14 mils), or made of any waterproof material; 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.

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.
2. It is advantageous to keep the storage area closed as long as practical to allow for maximum absorption into the potatoes.

APPLICATION TIMING AND RATES

Apply after potatoes 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 hundredweight), which is equivalent to 100 ppm on a product to potato 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.

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 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 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.

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1,4ZAP® is a registered trademark of 1,4GROUP, Inc.

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

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Net Contents 30 Gallons

EPA Reg. No. 67727-7
EPA Est. No. 65726-ID-1

Rev 0.0

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