

2016-3069
2016-07-05

1,4SIGHT

Liquid Aerosol Grade - Potato Dormancy Enhancer.
Naturally occurring plant biochemical delays sprouting, along with maintaining tuber firmness
and reducing respiration, resulting in less water loss.

COMMERCIAL

GUARANTEE:

1,4-Dimethylnaphthalene.....988 g/L

CAUTION - SKIN IRRITANT

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL BEFORE USING

REGISTRATION NO: 29837 PEST CONTROL PRODUCTS ACT

IF ANY LABEL INFORMATION IS MISSING, CONTACT THE MANUFACTURER/US/
AGENT/DISTRIBUTOR BEFORE USING THIS PRODUCT

READ ATTACHED LEAFLET BEFORE USING

Net Contents _____

Manufactured For:
1,4Group, Inc.
P.O. Box 860.
Meridian, ID 83680 USA
1-208-887-9766

DIRECTIONS FOR USE

- 1,4SIGHT is used as an aerosol to enhance the dormancy of potatoes during storage.
- 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 entry and re-entry 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; respirator; face-sealing goggles, unless a full-face respirator is worn; refer to the PRECAUTIONS section for appropriate respirator.
- 1,4SIGHT must not be applied to potatoes in the field.
- 1,4SIGHT may be applied anytime after the potatoes are placed into the storage area.
- 1,4SIGHT is a short term dormancy enhancer which should not adversely affect eventual germination of seed potatoes.
- Do not allow vapors to come in contact with storage areas used for seed potatoes within 60 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. Running fans during the application may aid distribution of vapors, but is not required.
3. It is advantageous to keep the storage area closed as long as practical (minimum of 24 hours) 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 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 entry and re-entry 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; respirator; face-sealing goggles, unless a full-face respirator is worn; refer to the PRECAUTIONS section for appropriate respirator.
4. Wait at least 24 hours before fresh air is introduced into the storage area. Allow the storage area to ventilate for at least 30 minutes or until ventilation is complete before allowing workers to enter for normal activities.
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 distribution 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 at a rate of 10 to 20 ppm on an active ingredient to potato basis. This is equivalent to:

- (i) 0.5 - 1 L of product per 50,348 Kg of potatoes or
- (ii) 10 - 20 mL of product per ton of potatoes

The lower rate may be sufficient: for adequately filled stores (< 50% headspace) and storage temperatures between 3 and 8 °C, storage facilities with little outside ventilation, or facilities that are well sealed. At both rates, re-application needs to take place as required based on regular monitoring and observed movement/development of budding sprouts. The first application of 1,4SIGHT can be made at any time after the potatoes are placed in the storage area, but prior to sprouting. Subsequent re-treatment is only required if visual inspection indicates eye opening. Allow a minimum of 1 month between treatments. Do not exceed 80 ppm during the storage season.

Response may vary among varieties.

This product when applied to seed potatoes may cause delayed emergence, an increase in stem number, smaller tubers and yield reduction.

1,4-dimethylnaphthalene residue levels in potatoes decrease over time. However, the rate of dissipation will vary with storage conditions and among potato varieties. **High residue levels may result in undesirable taste characteristics.** Residue levels below 0.7 ppm may lead to a

loss in efficacy. To minimize the risk of undesirable taste characteristics, residue levels should be monitored to ensure they do not exceed 1 ppm prior to marketing.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. May irritate eyes. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. May irritate the skin. Harmful if swallowed or absorbed through skin. Avoid contact with skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. May cause respiratory irritation. Avoid breathing vapours or fog.

Applicators and other handlers and those involved in clean-up and maintenance activities 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 entry and re-entry into treated areas during application and prior to ventilation or settling of aerosol fog 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-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.

Allow the storage area to ventilate for at least 30 minutes or until ventilation is complete before allowing workers to enter for normal activities.

FIRST AID

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: 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 centre or doctor for further treatment advice.

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 centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

STORAGE

To prevent contamination store this product away from food or feed.

DISPOSAL:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

Emergency Information

For spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.